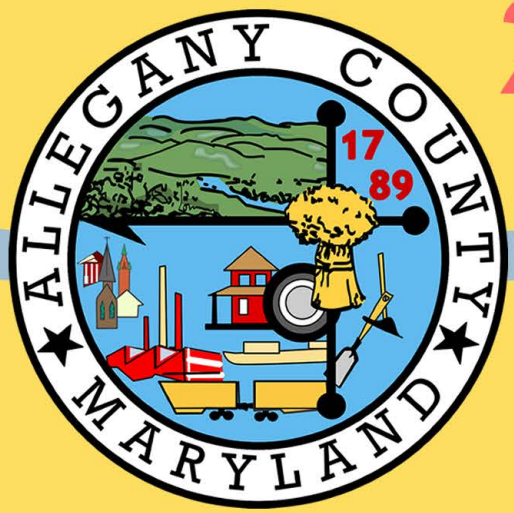
Allegany County Water & Sewer Plan 2016



Adopted May19, 2016

Prepared by: Allegany County Department of Public Works

2016 Allegany County Water & Sewerage Plan

Allegany County Water and Sewerage Plan

Final Plan

2016

Allegany County Board of County Commissioners

Jacob C. Shade, President

Creade V. Brodie, Jr.

William R. Valentine

Planning and Zoning Commission of Allegany County

E. William DuVall, II, Chairman
Edward T. Robinette, Sr., Vice Chairman
Kimberly R. Heavner
Donna E. Thomas
Richard P. Davis
Wesley W. McKee, Esq., Legal Council

Allegany County Department of Public Works

Paul F. Kahl, P.E. – Director of Public Works
Mark W. Yoder, P.E. – Utilities Division Chief
Adam Patterson, P.E. – County Engineer

Allegany County Water and Sewerage Plan Committee

Daniel S. DeWitt, P.E., Plan Coordinator
Greg B. Hildreth, GIS Manager
Siera N. Wigfield, Planner

Certification of Incorporation of Subsidiary Plans

2015 Allegany County Water & Sewerage Plan
Allegany County Planning & Zoning Commission
Evidence of Consultation with Local Comprehensive Planning Agency

We, the members of the Allegany County Planning & Zoning Commission, hereby recommend that the Allegany County Commissioners adopt the proposed 2015 Allegany County Water & Sewerage Plan ("the Plan") following the required public/agency review/comment hearing process and subsequent to any necessitated changes to the Plan.

The proposed Plan was presented to the Allegany County Planning & Zoning Commission on November 18, 2015 and recommended for adoption on January 1, 2016.

SIGNED:

Members of the Allegany County Planning & Zoning Commission

Printed Name	**Signature**
Stephen MacGray	
Richard P David	
Bill DuVall	
Donna Thomas	
Kimberly R Heavner	

This is to certify that Allegany County Government made all reasonable efforts to include information regarding *all* public and private water and sewerage systems present within the County. The Water and Sewerage Plan committee successfully made contact and received information from the following organizations:

- City of Cumberland
- City of Frostburg
- DeHaven Road Improvement Company
- LaVale Sanitary Commission
- Martins Mountain Water Company
- Maryland Environmental Service
- Maryland Water Service
- Mason Road Water Association
- Rawlings Improvement Association
- Town of Lonaconing
- Town of Westernport
- Verso Corporation (formerly NewPage/Luke Paper Company)

The Water and Sewerage Plan Committee sincerely appreciates the participation and cooperation of these agencies. The Committee incorporated data, plans, and revisions provided by these organizations.

For the operators of water and sewerage systems that are not listed above, contact information is unknown or no response was received.

David A. Eberly
County Administrator
Allegany County, Maryland

Engineer's Certification

This is to certify that sections of the 2016 Water and Sewerage Plan covering aspects of water and sewerage have been prepared and/or reviewed for adequacy to meet the defined needs.

Paul F. Kahl, P.E.
Director of Public Works
Allegany County, Maryland

RESOLUTION 16-13

WHEREAS, the Board of County Commissioners of Allegany County, Maryland, are required by Act of Legislature of the State of Maryland to prepare and update a Water and Sewerage Plan in accordance with Title 9, Subtitle 5, of the Environment Article of the Annotated Code of Maryland; and

WHEREAS, the County Commissioners of Allegany County did previously pass Resolution 14-09 adopt the 2013 Amendments to the 2011 Allegany County Water and Sewerage Plan on April 10, 2014 subsequent to necessary preparation and public hearing; and

WHEREAS, the County Commissioners of Allegany County desire to revise and update said Water and Sewerage Plan; and

WHEREAS, the Plan was written in conformance to the Code of Maryland Regulation, Title 26, Subtitle 3, and incorporates existing and planned water and sewerage development of Allegany County and the towns, municipal incorporations, privately owned facilities, and State facilities within the County; and

WHEREAS, the Plan was reviewed and unanimously endorsed by the Allegany County Planning & Zoning Commission on January 6, 2016; and

WHEREAS, the County Commissioners of Allegany County did in accordance with the prescribed procedures advertise and hold a public hearing to revise said Plan on March 24,2016 and the record remained open for a period of 20 days.

NOW, THEREFORE, BE IT RESOLVED AND ORDAINED that the Board of County Commissioners of Allegany County in accordance with the requirements of Title 9, Subtitle 5, Environment Article of the Annotated Code of Maryland, by proper motion and second in public meeting on May 19, 2016 do hereby adopt the 2016 Allegany County Water and Sewerage Plan and direct that copies of this Resolution and copies of the 2016 Allegany County Water and Sewerage Plan be made a part of the minutes of their regular meeting on May 19, 2016.

ADOPTED by the Board of County Commissioners of Allegany County, Maryland on May 19, 2016.

COUNTY COMMISSIONERS OF ALLEGANY COUNTY, MD

Jacob C. Shade, President

Creade V. Brodie, Commissioner

William R. Valentine, Commissioner

ATTEST:

David A. Eberly, County Administrator

Letter of Approval from Maryland Department of the Environment

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Definitions

- **ACDPW** = Allegany County Department of Public Works
- **Approving Authority** = one or more officials, agents, or agencies of local government designated by the local governing body or specified by other provisions of Environment Article Title 9, Subtitle 5, to take certain actions as part of implementing these regulations.
- **CIP** = Capital Improvement Program. The Allegany County CIP is reviewed and adopted each year by the Allegany County Commissioners , and contains specific proposed water and sewer infrastructure improvements for which funding is programmed for design or construction within the current four-year time frame.
- **Community Sewerage System** = any system, whether publicly or privately owned, serving two or more individual lots, for the collection and disposal of sewerage or industrial wastes of a liquid nature, including various devices for the treatment of sewage and industrial wastes.
- **Community Water Supply System** = a source of water and a distribution system, including treatment and storage facilities, whether publicly or privately owned, serving two or more individual lots.
- **Customer / Account** = refers to one utility billing account and are used to represent one household in this Plan.
- **CY** = Calendar Year, January 1 through December 31
- **EDU** = Equivalent Dwelling Unit, a measure where one unit is equivalent to wastewater effluent from one home, which is 250 gallons per day per home. This amount is based on most wastewater pollution textbooks estimating an average of 100 gallons of wastewater per person, and based on the national average home occupancy of 2.5 persons per home.
- **Existing service area / "W1" / "S1"** = the area that is currently served.
- **Final planning stage / "W2" / "S2"** = a work or works of community water supply or community sewerage system for which contract plans and specifications have been completed.
- **FY** = Fiscal Year, July 1 through June 30
- **gpd** = gallons per day
- **gpm** = gallons per minute
- **Immediate priority / "W3" / "S3"** = a work or works of community water supply or community sewerage for which the beginning of construction is scheduled to start within two years following the date of the adoption of the plan, its amendments, and its revision.
- **I & I = Inflow & Infiltration** = a major problem source in existing sewerage systems:

- **Infiltration** is water other than wastewater that enters a sewer system (including sewer service connections and foundation drains) from the ground through means which include, but are not limited to, defective pipes, pipe joints, connections, or manholes. Sources of infiltration can include rainfall, snowmelt, and groundwater;
- **Inflow** is water other than sanitary flow that enters a sewer system (including sewer service connections) from sources which include, but are not limited to, roof leaders, cellar drains, yard drains, area drains, drains from springs and swampy areas, manhole covers, cross connections between storm sewers and sanitary sewers, catch basins, cooling towers, storm waters, surface runoff, street wash waters, or drainage.

- **MGD** = million gallons per day
- **Multi-use Sewerage System** = a single system serving a single lot, under private or collective ownership, and serving a group of individuals for the collection and disposal of sewage or industrial wastes of a liquid nature, including various devices for the treatment of sewage and industrial wastes having a treatment capacity in excess of 5,000 gpd.
- **Multi-use Water Supply System** = a single system of piping, pumps, tanks, or other facilities utilizing a source of ground or surface water to supply a group of individuals on a single lot and having a capacity in excess of 1,500 GPD.
- **PFA** = Priority Funding Area
- **Sanitary District** = areas that are served by infrastructure owned and operated by Allegany County Department of Public Works – Utilities Division, the geography and names are coincident with the service areas.
- **Sewerage Service Area** = the area served, or potentially served, by a system of sanitary sewers connected to a treatment plant, or in a very large system, sub-areas as delineated by the county.
- **Six-year period / "W4" / "S4"** = the period in which work or works of community water supply or community sewerage for which the beginning of construction is scheduled to start between two and six years following the date of the adoption of the plan, its amendments, and its revision.
- **Ten-year period / "W5" / S5"** = the period in which work or works of community water supply or community sewerage for which the beginning of construction is scheduled to start between six and ten years following the date of the adoption of the plan, its amendments, and its revision.
- **Water Service Area** = that area served, or potentially served, by a single distribution system under control of a single utility, or, in a very large system, sub-areas as delineated by the county.

Chapter 1

1.01 Consistency with County Comprehensive Planning

The visions and recommendations contained herein are in accordance with sound planning processes and procedures, and are based upon engineering data and analysis, and social and land use planning information from the Allegany County Planning Division, the U.S. Census Bureau, the Maryland Department of Planning, and the Maryland Department of the Environment.

Allegany County embraces the concepts of Smart Growth and Sustainability. To that end, the guiding principles of this Plan serve to facilitate compact development, concentrating new development within or adjacent to existing areas of development, promoting the utilization of PFAs as planning tools to support sound land use decision-making, and encouraging new land uses in areas where they can be adequately supported by infrastructure.

Sustainable, well-planned development requires that the development that is projected for the future is supported by infrastructure. This requires that Planners identify the location of infrastructure and guide development in that direction. To be truly sustainable, however, the infrastructure itself must be planned and targeted so that it can be most efficiently and effectively utilized, that it can be reasonably expected to handle projected demand, and so that resources can be most effectively allocated and timed for maximum effectiveness.

This document is a planning document that seeks to utilize the Comprehensive Plan as a map for targeting infrastructure and for sequencing necessary facility improvements. It is also intended to serve as a guide for future Comprehensive Plan updates. In short, the symbiotic nature of the relationship of this document with the Comprehensive Plan ensures sustainability and promotes the tenants of Smart Growth.

1.02 Utilities Division Organization

The Organization Chart of the Allegany County Department of Public Works – Utilities Division is shown below in Figure 1. The Division is part of the Department of Public Works, and the Utilities Division Chief reports to the Director of Public Works.

The Division is generally divided into two sections directed by Area Supervisors for Distribution and Collection and for Treatment. The Area Supervisors are supported by foremen, plant operators and utility workers.

The Division also includes a Utility Engineer, administrative assistants, instrumentation and control (I&C) technician and mechanics to support the operation and maintenance of the wastewater treatment plants and pump stations.

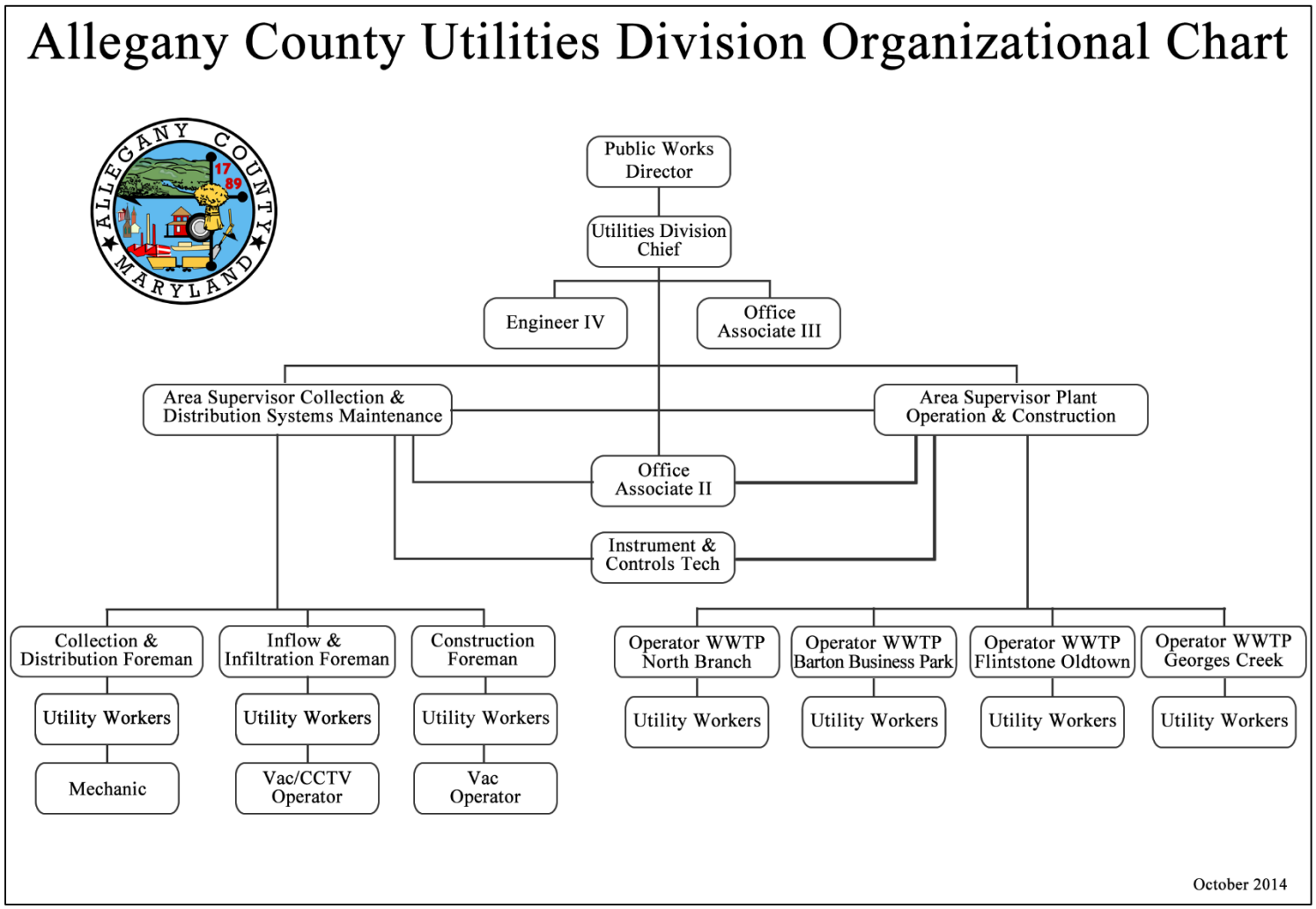


Figure 1.01 Utilities Division Organizational Chart

Chapter 2 Background Information

Chapter 2 presents information regarding the history and natural and cultural characteristics of Allegany County. The development patterns of Allegany County are highly correlated to the limitations of the landscape in the region. Because of the many physical constraints present within the county, it is imperative to consider these features while planning for the water and sewer systems; many areas in the County are poorly suited for wells, septic fields, or both.

It is also important to consider the population and land use projections to assure that the water and sewer plans will adequately serve the future residents of the county.

2.01 Historic Context

The early development of what was to become Allegany County parallels the nation's quest to link early east coast development with the western frontier. The Narrows and the Braddock Run Valley have been used as the preferred route for westward travel since colonial times. The National Road (also known as the National Pike, and now known as National Highway or US Route 40 Alternate) was routed through this area during the 1800s, eventually linking Baltimore to St. Louis.

Early European settlers were initially drawn to the area in the 18th Century because the Potomac River afforded relatively efficient communication and transportation through the Appalachians to the Ohio Valley. Hunting, trapping, trading and agrarian pursuits were the primary economic activities of these early County residents. Trade centers developed around the economically and geographically important communities of Oldtown and Cumberland. Due to its strategic location at the confluence of Wills Creek and the Potomac, Cumberland was identified by Colonial and British military leaders as a point of military interest. This eventually led to the construction of Fort Cumberland.

Considerable portions of the National Road alignment corresponded to Braddock's Road, the route that the ill-fated Braddock expedition followed en route to their disastrous engagement near Fort Duquesne (Pittsburgh) during the French and Indian War. George Washington served as an aide and a guide to the British General whose name continues to carry prominence in Western Maryland (Braddock Run, Braddock Road, Braddock Mountain). Washington relied heavily upon the services of early County resident Thomas Cresap. Braddock's Road followed the trail first blazed by Nemacolin (Chief of the Turtle Tribe of the Lenni Lennape), a contemporary of Cresap.

After the French and Indian War, this route continued to serve as an important east-west travel corridor through the balance of the Colonial era and into the early years of the republic. As the need for transportation infrastructure within the interior was noted, Congress initiated a series of legislative enactments that led to funding appropriations for large-scale roadway

construction. When completed, the National Road connected mid-Atlantic coastal areas with Western Maryland, Western Virginia, Western Pennsylvania and the areas that were later to form the states of Ohio, Kentucky, West Virginia, Indiana, and Illinois.

The presence of the National Road led to increased development and the establishment of other communities, most notably, the Town of Frostburg. The discovery of coal spurred development in much of what is now western Allegany County.

Allegany County's historic development has largely been a function of transportation, beginning with the smaller creeks and the Potomac River and continuing with the construction of the National Road. This piece of transportation infrastructure was the first major public works project of the United States.

Another significant transportation initiative, the C&O Canal, was also undertaken. The intent of this project was to link – via water – the Chesapeake Bay with the Ohio River. Although the Canal never made it further west than Cumberland, it was an important transportation route for goods and services from the tri-state area to Washington, DC for many years. The C&O Canal played an integral role in the growth of Allegany County.

In the early and mid-19th Century, mineral extraction, particularly coal, emerged as an increasingly important economic activity in the George's Creek Basin. The existing railway network (the B&O Railroad) was expanded to facilitate this industry. Largely as a direct consequence of this activity, the County's population doubled between 1880 and 1930 (approximately 40,000 to 80,000).

In the late 1800s and early 1900s, Allegany County's primary population center was the City of Cumberland and its immediate vicinity. Cumberland's nickname, "The Queen City" is indicative of its earlier size and importance. In that era, it was common practice to name the state's second largest city "The Queen City". In the latter portion of the 19th Century, only Baltimore was larger or more important than Cumberland. Cumberland was the transportation and railway hub that serviced the mills, waterways, manufacturing facilities, and mines of Western Maryland and the surrounding tri-state area.

In addition to Cumberland, Allegany County also had significant secondary population centers in Frostburg and along George's Creek (Midland, Lonaconing, Barton, and Westernport). These areas were important residential centers for the large numbers of miners who serviced the labor-intensive coal mining operations so prevalent during that era. The region's coal has a relatively high sulfur content and that, coupled with a nationwide decline in the use of coal (in favor of petroleum distillates such as gasoline, kerosene, etc.), and a growing labor movement in the early 20th Century (advocating better working conditions, worker safety and higher wages) signaled the end of the "King Coal" days for Western

Maryland. A century later, coal is still important to Allegany County, but open pit (strip) mining has replaced the labor-intensive deep mining operations of the previous era.

In the early 1900s, large factories were built in the County to make use of the extensive labor supply that had been made available as the transportation and mining-related employment momentum began to decline. For a time, the job base lost to declining mining employment was replaced by the successful mill operations of the early and mid-20th Century: Kelly-Springfield Tire, Celanese Fiber Corp., Pittsburgh Plate Glass, etc. These industries peaked in the 1940s and 1950s but declined in the 1970s. These operations are no longer in existence, nor have they been replaced by similar industries. The loss of these industries was not at all atypical for the region. Many areas throughout the mid-Atlantic and greater Northeastern U.S. witnessed the same type of economic decline. What set this area apart from similar regions is that exceedingly little in the way of replacement industries moved in to fill these voids.

Allegany County's population peaked around 1950. For the next 60 years, the county's population steadily declined to its 2013 Census estimate population of 73,521 (refer below to Table 2.1 – Allegany County – Historic Population). This population trend is consistent with the economic conditions within the county and generally reflects a larger trend witnessed throughout the mid-Atlantic and Northeastern U.S. regions during the latter portion of the 20th Century.

In the 1970s and into the 1980s, unemployment routinely averaged in excess of 20 percent. This trend continued until the late 1980s when the situation began to stabilize. Three factors influenced this stabilization trend. First, local job loss began to slow; second the local employment base improved as a few new industries located here and the state and federal prison systems increased the number of local positions in the 1990s. The final factor in this stabilization is that out-migration had finally begun to create a situation where job supply was coming closer to meeting job demand. As a result, the unemployment rate began to decline for the first time in decades.

Currently, the general economic outlook for the county has begun to improve and businesses and residents are beginning to think about re-investment. The improving business climate has stimulated some additional job growth as a result of several new industries within Allegany County. Interestingly enough, Allegany County has a larger job base today than any time in its history.

Table 2.1: Allegany County – Historic Population

	Total Population	Absolute Change	Percent Change
1950	89,556	-	-
1960	84,169	-5,387	-6.02%
1970	84,044	-125	-0.15%
1980	80,548	-3,496	-4.16%
1990	74,946	-5,602	-6.95%
2000	74,930	-16	-0.02%
2010	75,090	+160	+0.21%

SOURCE: U.S. Department of Commerce, Census Bureau

2.02 Physical Features

2.02.1 Topography

Allegany County is comprised of two physiographic provinces, the Appalachian Plateau to the west, and the Valley and Ridge Province in the east. The highest point in Allegany County is located along the Allegheny Front, the dividing line between the two provinces; on Dans Mountain, 2,850 feet. The lowest point in the county is on the Potomac River at Sidling Hill Creek with an elevation of 420 feet. Allegany County has the most topographic relief in the State of Maryland; the digital elevation model is shown in Appendix 2.01. In addition, forty percent of the land in Allegany County has a slope greater than 25%. These slopes are a determinate factor for existing and future land uses.

2.02.2 Soil Drainage Characteristics

The soils in Allegany County are mostly moderately well or well drained (Appendix 2.02). However, with most of these soils, the depth to bedrock or depth to the water table is very shallow, and/or the soils are located in areas with steep slopes. Therefore, these soils typically are poorly or somewhat poorly suited for septic tank absorption fields (NRCS).

2.02.3 Aquifers

The aquifers in Allegany County align with the physiographic provinces and are categorized by age (Appendix 2.03). The aquifers within the Appalachian Plateau Province in Allegany County are predominately Pennsylvanian, and are comprised of consolidated sedimentary rocks which are also the major coal-bearing formations in the region. The Pennsylvanian rocks

are layers of sandstone, shale, conglomerate, clay and coal. The sandstones are the most productive aquifers, yielding 20 to 430 gallons per minute. Water is also associated with coal beds/seams, as fractures within the deposit can store and convey water.

Within the Valley and Ridge Province the primary aquifers can be found in sandstones of Ordovician and Devonian age. However, these aquifers typically yield less than 120 gallons per minute (USGS).

2.02.4 Groundwater Patterns

The groundwater patterns in the county are determined by the underlying rock formations and the patterns are correlated to the physiographic provinces. In the western portion of the county, the Appalachian Plateau, there is less aquifer recharge than in the eastern Valley and Ridge Province; because of the steep slopes and shallow bedrock, a significant portion of the rainwater runs off rather than infiltrating the surface. The groundwater usually moves locally from areas of high head toward areas of lower head, and moves both vertically and horizontally following the path of least resistance. Springs are found where the water table meets the valley wall and will usually feed mountain streams. The underground mining of coal in Allegany County has also affected the natural groundwater patterns. Tunnels that were constructed to divert water away from mine workings can lower water tables, and also divert ground water from one watershed to another. Collapsed mines may cause bedrock to fracture and can increase the water entering the aquifers.

The aquifers in the Valley and Ridge Province transmit most of the water though fractures and planes in all types of bedrock, and also through solution cavities in carbonate rocks. Large springs are very common, especially in carbonate rocks, and in these springs, groundwater movement is determined by gravity. Within the province, well productivity is influenced by several different geologic occurrences; wells located where fractures in the bedrock are present, where rocks have less than a 15 degree bedding plane angle, where the rocks are thin-bedded, and/or located in anti-clines ,will yield more water. In addition, wells that are located in the valley floors typically are more productive than the wells located at the higher elevations (USGS).

2.02.5 Surface water patterns

The streams in Allegany County have small basins and the headwaters form at high elevations and on steep slopes. The streams are fed by springs and/or snowmelt and runoff. All of the streams in the County are tributaries to the Potomac River and include: Georges Creek, Jennings Run, Braddock Run, Wills Creek, Warrior Run, Evitts Creek, Flintstone Creek, Town Creek, Fifteen Mile Creek, and Sideling Hill Creek (Appendix 2.04). The size of each watershed is tabulated in Table 2. The streams and rivers of Allegany County are important for recreation and wildlife habitat. They also receive effluent from wastewater treatment plants.

Table 2.2 Allegany County - Watersheds

Watershed	Acres
Savage River	74,537
Wills Creek*	38,430
Evitts Creek*	19,955
Town Creek*	43,410
Fifteen Mile Creek*	33,172
Sideling Hill Creek*	14,138
Georges Creek	47,694
Potomac River L N Branch	73,145
Potomac River AL County	20,861
Potomac River U N Branch	373

*Portion of watershed in Pennsylvania, not included in area calculations

The ponds and lakes in Allegany County are man-made. At 243 acres, Lake Habeeb is the only lake in the County and primarily serves as a recreational and drinking water facility. The only other surface water drinking water sources within Allegany County are small impoundments which serve the Georges Creek water system. The major sources for public water supply are all located outside of Allegany County (Appendix 2.05). Lakes Gordon and Koon, operated by the Evitts Creek Water Company, supply the Cumberland System and are located in Bedford County, Pennsylvania. The Piney Reservoir located in Garrett County, Maryland, supplies the Frostburg System and is under the control of the City of Frostburg; the catchment area of the reservoir is 7,680 acres. The Upper Potomac River Commission operates the Savage River Dam, also in Garrett County, which is the water source for the Town of Westernport and also serves to regulate flow in the Potomac River.

2.02.6 Water Quality Criteria

Allegany County complies with Maryland COMAR Title 26 and all applicable COMAR regulations. The impaired waters in Allegany County (as seen on the Combined 303(d)/305(b) List) are listed in Table 2.3 and can also be found in Appendix 2.06.

Table 2.3	Impaired Waters							
Maryland's Searchable Integrated Report Database [Combined 303(d)/305(b) List]								
This database is updated periodically. The last update occurred after the approval of the 2012 Integrated Report on November 9, 2012.								
AU_ID	**Basin Name**	**Basin Code**	**Water Type**	**Water Type Detail**	**Designated Use**	**Listing Category**	**Pollutant**	**Priority**
MD-02141002	Evitts Creek	2141002	RIVER	Non-tidal 8-digit watershed	Aquatic Life and Wildlife	5	Chlorides	Low
MD-02141002	Evitts Creek	2141002	RIVER	Non-tidal 8-digit watershed	Aquatic Life and Wildlife	5	Sulfates	Low
MD-021410020107-Rocky_Gap_Run	Evitts Creek	2141002	RIVER	Subwatershed	Aquatic Life and Wildlife	5	pH, Low	Med
MD-02141002	Evitts Creek	2141002	RIVER	Non-tidal 8-digit watershed	Aquatic Life and Wildlife	4c	Lack of Riparian Buffer	
MD-021410020107-Lake_Habeeb	Evitts Creek	2141002	IMPOUNDMENT	Impoundments	Aquatic Life and Wildlife	4a	Phosphorus (Total)	
MD-02141002	Evitts Creek	2141002	RIVER	Non-tidal 8-digit watershed	Aquatic Life and Wildlife	4a	Total Suspended Solids (TSS)	
MD-021410020105-Elk_Lick_Run	Evitts Creek	2141002	RIVER	Subwatershed	Aquatic Life and Wildlife	3	pH, High	
MD-021410020107-Lake_Habeeb	Evitts Creek	2141002	IMPOUNDMENT	Impoundments	Fishing	3	PCB in Fish Tissue	
MD-02141002	Evitts Creek	2141002	RIVER	Non-tidal 8-digit watershed	Aquatic Life and Wildlife	2	Phosphorus (Total)	
MD-021410020107-Lake_Habeeb	Evitts Creek	2141002	IMPOUNDMENT	Impoundments	Fishing	2	Mercury in Fish Tissue	
MD-02141002-Evitts_Creek	Evitts Creek	2141002	RIVER	Non-tidal 8-digit watershed	Aquatic Life and Wildlife	2	pH, Low	
MD-02140511	Fifteen Mile Creek	2140511	RIVER	1st thru 4th order streams	Aquatic Life and Wildlife	2	Cause Unknown	
MD-02141004	Georges Creek	2141004	RIVER	1st thru 4th order streams	Aquatic Life and Wildlife	5	Cause Unknown	Low
MD-02141004-MAINSTEM	Georges Creek	2141004	RIVER	Non-tidal Segment(s)	Aquatic Life and Wildlife	4b	pH, Low	
MD-02141004	Georges Creek	2141004	RIVER	Non-tidal 8-digit watershed	Aquatic Life and Wildlife	4a	Total Suspended Solids (TSS)	
MD-021410040088-UTS_Georges_Crk	Georges Creek	2141004	RIVER	Non-tidal Segment(s)	Aquatic Life and Wildlife	4a	pH, Low	
MD-02141004	Georges Creek	2141004	RIVER	Non-tidal 8-digit watershed	Water Contact Sports	4a	Escherichia coli	
MD-021410040092-Staub_Run	Georges Creek	2141004	RIVER	Non-tidal Segment(s)	Aquatic Life and Wildlife	4a	pH, Low	
MD-021410040089-Mill_Run	Georges Creek	2141004	RIVER	Non-tidal Segment(s)	Aquatic Life and Wildlife	4a	pH, Low	
MD-021410040089-Jackson_Run	Georges Creek	2141004	RIVER	Non-tidal Segment(s)	Aquatic Life and Wildlife	4a	pH, Low	
MD-021410040091-Matthew_Run	Georges Creek	2141004	RIVER	Non-tidal Segment(s)	Aquatic Life and Wildlife	4a	pH, Low	
MD-02141004	Georges Creek	2141004	RIVER	Non-tidal 8-digit watershed	Aquatic Life and Wildlife	4a	BOD, nitrogenous	
MD-02141004	Georges Creek	2141004	RIVER	Non-tidal 8-digit watershed	Aquatic Life and Wildlife	4a	BOD, carbonaceous	

AU_ID	Basin Name	Basin Code	Water Type	Water Type Detail	Designated Use	isting ategory	Pollutant	Priority
MD-021410040093-Winebrenner_Run	Georges Creek	2141004	RIVER	Non-tidal Segment(s)	Aquatic Life and Wildlife	4a	pH, Low	
MD-02141004-Multiple_segments	Georges Creek	2141004	RIVER	Non-tidal 8-digit watershed	Aquatic Life and Wildlife	2	pH, Low	
MD-02141004	Georges Creek	2141004	RIVER	Non-tidal 8-digit watershed	Aquatic Life and Wildlife	2	Phosphorus (Total)	
MD-021410040094	Georges Creek	2141004	RIVER	Non-tidal Segment(s)	Aquatic Life and Wildlife	2	pH, Low	
MD-02141004	Georges Creek	2141004	RIVER	Non-tidal 8-digit watershed	Aquatic Life and Wildlife	2	Nitrogen (Total)	
MD-02141001-Wadeable_Streams	Lower North Branch Potomac River	2141001	RIVER	1st thru 4th order streams	Aquatic Life and Wildlife	5	Cause Unknown	Low
MD-02141001	Lower North Branch Potomac River	2141001	RIVER	Non-tidal 8-digit watershed	Aquatic Life and Wildlife	2	Phosphorus (Total)	Low
MD-02141001	Lower North Branch Potomac River	2141001	RIVER	Non-tidal 8-digit watershed	Aquatic Life and Wildlife	2	Total Suspended Solids (TSS)	Low
MD-02141001	Lower North Branch Potomac River	2141001	RIVER	Non-tidal 8-digit watershed	Water Contact Sports	3	Fecal Coliform	
MD-02141001	Lower North Branch Potomac River	2141001	RIVER	Non-tidal 8-digit watershed	Aquatic Life and Wildlife	2	Cadmium	
MD-02141001	Lower North Branch Potomac River	2141001	RIVER	Non-tidal 8-digit watershed	Aquatic Life and Wildlife	2	pH, Low	
MD-02141001-Mainstem	Lower North Branch Potomac River	2141001	RIVER	River Mainstem	Fishing	2	PCB in Fish Tissue	
MD-02141001-Mainstem	Lower North Branch Potomac River	2141001	RIVER	River Mainstem	Fishing	2	Mercury in Fish Tissue	
MD-02140508-Wadeable_Streams	Potomac River Allegany County	2140508	RIVER	1st thru 4th order streams	Aquatic Life and Wildlife	5	Cause Unknown	Low
MD-02140508-Mainstem	Potomac River Allegany County	2140508	RIVER	River Mainstem	Aquatic Life and Wildlife	3		
MD-02140510	Sideling Hill Creek	2140510	RIVER	1st thru 4th order streams	Aquatic Life and Wildlife	2	Cause Unknown	
MD-02140512	Town Creek	2140512	RIVER	1st thru 4th order streams	Aquatic Life and Wildlife	5	Cause Unknown	Low
MD-02140512	Town Creek	2140512	RIVER	Non-tidal 8-digit watershed	Aquatic Life and Wildlife	2	Phosphorus (Total)	
MD-02140512	Town Creek	2140512	RIVER	Non-tidal 8-digit watershed	Aquatic Life and Wildlife	2	Total Suspended Solids (TSS)	
MD-02140512	Town Creek	2140512	RIVER	Non-tidal 8-digit watershed	Aquatic Life and Wildlife	2	Nitrogen (Total)	
MD-02141005-Wadeable_Streams	Upper North Branch Potomac River	2141005	RIVER	1st thru 4th order streams	Aquatic Life and Wildlife	5	Sulfates	Low
MD-02141005	Upper North Branch Potomac River	2141005	RIVER	Non-tidal 8-digit watershed	Aquatic Life and Wildlife	4a	Total Suspended Solids (TSS)	
MD-02141005-Mainstem_aboveJR_Lake	Upper North Branch Potomac River	2141005	RIVER	Non-tidal Segment(s)	Aquatic Life and Wildlife	4a	Iron	
MD-02141005-JENNINGS_RANDOLPH_RESERVOIR	Upper North Branch Potomac River	2141005	IMPOUNDMENT	Impoundments	Fishing	2	Mercury in Fish Tissue	
MD-02141005	Upper North Branch Potomac River	2141005	RIVER	Non-tidal 8-digit watershed	Aquatic Life and Wildlife	2	Phosphorus (Total)	
MD-02141005-Multiple_segments4	Upper North Branch Potomac River	2141005	RIVER	Non-tidal 8-digit watershed	Aquatic Life and Wildlife	2	pH, Low	
MD-02141005	Upper North Branch Potomac River	2141005	RIVER	Non-tidal 8-digit watershed	Aquatic Life and Wildlife	2	Arsenic	
MD-02141005-Multiple_segments3	Upper North Branch Potomac River	2141005	RIVER	Non-tidal Segment(s)	Aquatic Life and Wildlife	2	Iron	
MD-02141005-Multiple_segments1	Upper North Branch Potomac River	2141005	RIVER	Non-tidal Segment(s)	Aquatic Life and Wildlife	2	Aluminum	
MD-02141005	Upper North Branch Potomac River	2141005	RIVER	Non-tidal 8-digit watershed	Aquatic Life and Wildlife	2	Selenium	

AU_ID	Basin Name	Basin Code	Water Type	Water Type Detail	Designated Use	Listing Category	Pollutant	Priority
MD-02141005	Upper North Branch Potomac River	2141005	RIVER	Non-tidal 8-digit watershed	Aquatic Life and Wildlife	2	Lead	
MD-02141005	Upper North Branch Potomac River	2141005	RIVER	Non-tidal 8-digit watershed	Aquatic Life and Wildlife	2	Zinc	
MD-02141005	Upper North Branch Potomac River	2141005	RIVER	Non-tidal 8-digit watershed	Aquatic Life and Wildlife	2	Silver	
MD-02141005	Upper North Branch Potomac River	2141005	RIVER	Non-tidal 8-digit watershed	Aquatic Life and Wildlife	2	Copper	
MD-02141005-Multiple_segments2	Upper North Branch Potomac River	2141005	RIVER	Non-tidal Segment(s)	Public Water Supply	2	Manganese	
MD-02141005	Upper North Branch Potomac River	2141005	RIVER	Non-tidal 8-digit watershed	Aquatic Life and Wildlife	2	Chromium, hexavalent	
MD-02141005	Upper North Branch Potomac River	2141005	RIVER	Non-tidal 8-digit watershed	Aquatic Life and Wildlife	2	Cadmium	
MD-02141005	Upper North Branch Potomac River	2141005	RIVER	Non-tidal 8-digit watershed	Aquatic Life and Wildlife	2	Nickel	
MD-02141005	Upper North Branch Potomac River	2141005	RIVER	Non-tidal 8-digit watershed	Aquatic Life and Wildlife	2	Nitrogen (Total)	
MD-02141005-JENNINGS_RANDOLPH_RESERVOIR	Upper North Branch Potomac River	2141005	IMPOUNDMENT	Impoundments	Fishing	2	PCB in Fish Tissue	
MD-02141003	Wills Creek	2141003	RIVER	Non-tidal 8-digit watershed	Aquatic Life and Wildlife	5	Sulfates	Low
MD-02141003	Wills Creek	2141003	RIVER	Non-tidal 8-digit watershed	Aquatic Life and Wildlife	5	Chlorides	Low
MD-02141003	Wills Creek	2141003	RIVER	Non-tidal 8-digit watershed	Aquatic Life and Wildlife	4c	Channelization	
MD-02141003	Wills Creek	2141003	RIVER	Non-tidal 8-digit watershed	Water Contact Sports	4a	Escherichia coli	
MD-02141003	Wills Creek	2141003	RIVER	Non-tidal 8-digit watershed	Aquatic Life and Wildlife	4a	Total Suspended Solids (TSS)	
MD-021410030099-JENNINGS_RUN	Wills Creek	2141003	RIVER	Non-tidal Segment(s)	Aquatic Life and Wildlife	4a	pH, Low	
MD-021410030099-UT2_JENNINGS_RUN	Wills Creek	2141003	RIVER	Non-tidal Segment(s)	Aquatic Life and Wildlife	4a	pH, Low	
MD-021410030098-UT3_JENNINGS_RUN	Wills Creek	2141003	RIVER	Non-tidal Segment(s)	Aquatic Life and Wildlife	4a	pH, Low	
MD-021410030099-UT1_JENNINGS_RUN	Wills Creek	2141003	RIVER	Non-tidal Segment(s)	Aquatic Life and Wildlife	4a	pH, Low	
MD-021410030099-Multiple_segments	Wills Creek	2141003	RIVER	Non-tidal Segment(s)	Aquatic Life and Wildlife	2	pH, Low	
MD-02141003	Wills Creek	2141003	RIVER	Non-tidal 8-digit watershed	Aquatic Life and Wildlife	2	Cyanide	
MD-02141003-Multiple_subwatersheds	Wills Creek	2141003	RIVER	Non-tidal Segment(s)	Aquatic Life and Wildlife	2	pH, Low	
MD-02141003	Wills Creek	2141003	RIVER	Non-tidal 8-digit watershed	Aquatic Life and Wildlife	2	Phosphorus (Total)	
MD-021410030100	Wills Creek	2141003	RIVER	Subwatershed	Aquatic Life and Wildlife	2	pH, Low	

2.03 Population

2.03.4 Present Population Distribution

The current population for Allegany County in year 2010 was 75,090 (MDP). The population distribution is shown in Appendix 2.07; the data displayed in the map are census blocks from the 2010 Census.

2.04 Future Demand Projections

Future water and sewer infrastructure demand is largely a function of population and dwelling unit trends. As was discussed in "Historic Context" (2.01), population trends for the County have been in a steady declining pattern since 1960. In 2000, the downward spiral slowed and the trend line flattened. One of the most significant components influencing county population trends is gentrification. Allegany County has a large elderly population. There has been a significant natural population decline over the past twenty years as this segment of the County's population base has disappeared. This loss has dominated the demographic landscape in the County for the past 15 to 20 years. This trend is expected to continue for another 5 to 10 years.

Another significant factor that has impacted population trends is the decline in average household size. This nationwide trend has seen local average household sizes decline from a post-World War II high of slightly more than three persons per household to a present day estimate of 2.34 persons per household. This declining continuum is expected through 2040 when it is projected to be approximately 2.14 persons per household.

This trend affects both population and dwelling unit forecasts. With fewer persons per household, the population totals for existing housing stock will decline. This means there will be an overall population decline unless new housing construction is sufficient to offset this loss. Additionally, it will mean that a proportionately larger number of new homes must be built to achieve a level of growth comparative to historic trends. Population forecasts for the County suggest a modest increase over the next 30 years. To accomplish this, nearly 4,000 new dwelling units will be constructed. Since water and sewer infrastructure demand is based upon dwelling units, there will be a corresponding increase in demand for the same period.

Housing demand is always difficult to forecast, however, in the case of Allegany County, it seems likely that there will be a significant increase in demand over the next 5 to 30 years, with the preponderance of this demand occurring in the 2015 to 2025 period. Three factors will influence this demand: internal re-location (in accordance with improving economic conditions for current residents), in-migration from adjacent jurisdictions, and in-migration from the Baltimore-Washington suburban region. Local forecasts project strong increases in available dwelling units. Demand is projected to be high, therefore occupancy rate projections

are presumed to be high (particularly after 2010). If both occupancy percentages and available housing stock increase, the result will be a population increase. The degree of change and the actual amount of population increase will be determined by trends within the realm of the variables associated with average household size and occupancy rates.

The following tables chart projected increases in dwelling units, Group Quarters and total population. In preparing these tables, low assumptions were utilized for occupancy rates for existing dwelling units. A slightly higher assumption was used for new construction. Average household size factors were taken from the recent MDP release, except for 2040. Estimates from the state show a steady decline in household size from the present to 2040, except for the period 2030 to 2040. No evidence exists to suggest stabilization in the decline of average household size. Therefore, local forecasts were based upon the assumption that the decades' old trend of decline would continue. For purposes of this analysis, household sizes of 2.35, 2.27, 2.21, 2.17, and 2.14 were used for 2010, 2020, 2030, and 2040, respectively.

It is interesting to note that while population is projected to increase in each of the 10-year increments, overall, the population growth could best be characterized as flat. Dwelling unit increases, meanwhile, show a more marked increase: 1.06 percent, 3.89 percent, 3.84 percent, and 2.76 percent, respectively, for each of the 10-year increments, and 12.04 percent overall for the analysis period. This is significantly greater than the population increase which is 0.95 percent, 0.54 percent, 1.2 percent and 2.0 percent, respectively, for each of the 10-year increments, and 4.7 percent for the entire 30-year horizon. This contrast is a direct result of declining household size. Since water demand is based upon dwelling units, overall County demand vis-à-vis dwelling units is going to increase at a level that is somewhat disproportionate to the past. It may also suggest the advisability of employing something other than the common standard of 250 gallons per day per household as the means for forecasting demand.

Table 2.4. Allegany County – Population Forecast Analysis

Total Population			
Year	Total Population	Absolute Change	Percent Change
2000	74,940	-	-
2010	75,090	150	0.20%
2020	75,650	560	0.75%
2030	77,150	1,500	1.98%
2040	77,550	400	0.52%
Dwelling Units			
Year	Total Dwelling Units	Absolute Change	Percent Change
2000	31,846	-	-
2010	32,185	339	1.06%
2020	33,436	1,251	3.89%
2030	34,721	1,285	3.84%
2040	35,681	960	2.76%
Group Quarters			
Year	Total Population	Absolute Change	Percent Change
2000	6,158	-	-
2010	7,924	1,766	28.68%
2020	7,983	59	0.74%
2030	8,141	158	1.98%
2040	8,183	42	0.52%

Source: 2014 Allegany County Comprehensive Plan via Maryland Department of Planning

2.05 Land Use

The land use in Allegany County is predominately determined by the physical features present. Steep slopes, floodplains, and poor soils are all landscape limitations present within the county that constrain development to a relatively small percentage of the County's land area.

2.05.1 Existing Land Use

The current land use Allegany County is shown in Appendix 2.08. The existing land use map was compiled by the Allegany County Planning Division and is a parcel based land use map in which the data was field verified prior to input into the existing land use database. Opportunities for landowners to review and correct data were provided through a series of public meetings during the comprehensive planning process. This process has allowed for a more accurate and detailed land use database. A summary of the land use categories are presented in Table 2.5 .

Table 2.5. Allegany County – Existing Land Use

Existing Land Use	Percent of Land Area	Existing Land Use	Percent of Land Area
Forest	62.88%	C & O Canal	0.42%
Agriculture	16.67%	Major Commercial	0.39%
Low Density Residential	7.15%	Industrial & Warehousing	0.33%
Right of Way	2.94%	Utility	0.15%
Municipality	2.84%	Local Commercial	0.13%
Extractive	1.92%	Lake/Pond	0.07%
Medium Density Residential	1.63%	High Density Residential	0.06%
River/Stream	0.90%	Transportation	0.03%
Institutional	0.72%	Office/Professional	0.02%
Open Urban Land	0.71%	Wetland	0.01%

2.05.2 Zoning

The Allegany County Zoning is displayed in Appendix 2.09. The percent of land in each zoning category has been calculated in Table 2.6 below. The current zoning code of Allegany County is under review and expected to change following the cycle of comprehensive plan updates.

Table 2.6. Allegany County – Zoning

Zone		Percent of County Area
Agriculture	A	28.45%
Conservation	C	50.63%
Residential	R	2.79%
General Residential	G-1	2.82%
General Urban	G-2	4.71%
Neighborhood Commercial	B-1	0.12%
Major Commercial	B-2	0.44%
Industrial	I	1.73%
Municipality Zoning	M	3.54%
LaVale Zoning		
Residential A	RA	0.66%
Rural Residential	RR	2.79%
Commercial A	CA	0.05%
Commercial B	CB	0.25%
Commercial C	CC	0.03%
Water	water	0.98%
Total		100.0%

2.05.3 Future Land Use

The future land use for each parcel was determined by utilizing several factors. Some of these include: the Allegany County Land Suitability Analysis conducted by the GIS Office, slope analysis, zoning and several other environmental factors. Access to roads and other infrastructure items were also evaluated. Comprehensive re-zoning will follow Comprehensive Plan updates to re-align the forecasted future land use with the updated zoning codes. Table 2.7 below lists an approximation of the future land use acreage as a percentage of the county. The future land use is subject to change based on new available information.

Table 2.7. Allegany County – Future Land Use

Future Land Use	% of County
Preservation	59.50%
Preservation Agriculture	16.81%
Low Density Residential	7.18%
Right of Way	3.83%
Mixed Use Residential	2.93%
Municipality	2.91%
Medium Density Residential	1.62%
Recreation	1.12%
Residential Estates	0.76%
Institutional	0.73%
Mixed Use Commercial	0.59%
Industry	0.56%
Proposed Industry	0.55%
Commercial	0.54%
Utility	0.15%
Water	0.08%
Proposed Institutional	0.08%
High Density Residential	0.06%

2.06 Institutions and Facilities

There are 25 public school facilities in Allegany County, as well as three private schools, one college, and one university. There are also four correctional institutions. These institutions, in addition to others, are shown in Appendix 2.10. The approximate population for each facility is outlined in Table 2.8 below. Nearly all of these facilities are served by public water and/or sewer.

Table 2.8. Allegany County – Institutions & Facilities

Facility Name	Facility Type	Pop.
Allegany County Detention Center	Correctional Institution	136
North Branch Correctional Inst.	Correctional Institution	1,892
Western Correctional Inst.	Correctional Institution	2,218
Federal Correction Institution	Correctional Institution	1,820
Dispatch Center	County Government	25
Allegany County Building	County Government	70
Allegany County Court House	County Government	66
Board of Education Main Office	County Government	82
Board of Education Maintenance	County Government	34
Board of Education Transportation Shop	County Government	42
Allegany County Transit	County Government	25
Allegany County Sheriff's Department	County Government	25
Allegany County Fairgrounds	County Government	1
Allegany County Roads Division 1	County Government	28
Allegany County Roads Division 2	County Government	11
Allegany County Roads Division 3	County Government	11
Allegany County Roads Division 4	County Government	15
Department of Emergency Services	County Government	12
Allegany County Library System	County Government	40
Human Resources Development Comm.	County Government	60
Allegany County Health Department	Health Service	196
Finan Center	Health Service	400
Jefferson School at Finan Center	Health Service	120
Western Maryland Health System	Health Service	2,350
Frostburg Rehab and Nursing Center	Health Service	191
Appalachian Laboratory	Higher Education	52
Frostburg State University	Higher Education	5,677
Allegany College of Maryland	Higher Education	3,831
Bishop Walsh High School	School - Private	405
Saint Michaels School	School - Private	29
Calvary Christian Academy	School - Private	263
Fort Hill High	School - Public	851
Allegany High	School - Public	745
Mountain Ridge High	School - Public	931
Braddock Middle	School - Public	632
Washington Middle	School - Public	749
Frost Elementary	School - Public	274
Beall Elementary	School - Public	509

Bel Air Elementary	School - Public	240
Parkside Elementary	School - Public	254
Cresaptown Elementary	School - Public	389
Georges Creek Elementary	School - Public	353
Mount Savage Elementary	School - Public	274
Flintstone Elementary	School - Public	263
Westernport Elementary	School - Public	306
South Penn Elementary	School - Public	599
Cash Valley Elementary	School - Public	361
John Humbird Elementary	School - Public	355
West Side Elementary	School - Public	452
Northeast Elementary	School - Public	338
HRDC Cumberland Street Head Start	School - Public	183
HRDC Seymour Street Head Start	School - Public	82
Mount Savage Middle	School - Public	384
Westmar Middle	School - Public	303
Career Center	School - Public	342
Eckhart School	School - Public Alternative	46

Chapter 3 Water Systems

Allegany County is proud to serve approximately 90% of its residents with public water. The service areas are shown in Appendix 3.01: Water Service Areas. A foldout map (24" x 36") is also included in the rear of print versions of this document. If a hard copy of the 24" x 36" Appendix 3.01 is desired, please contact the Allegany County Department of Public Works.

The water systems are operated by several different agencies, including Allegany County Department of Public Works – Utilities Division, various municipalities, and privately owned water companies. There are both community and multi-use systems present within Allegany County.

Information on current billing rates and recent demand/usage is available in the Appendices of this report and will updated, as appropriate, during annual amendment cycles.

3.01 Community Water Supply Systems

There are many community water supply systems within the County. Each system has one or more sources of water which is treated and conveyed throughout the system. The larger systems are divided into multiple service areas, which are determined either by geography, operating utility, or both. These systems are publicly or privately owned and are described in detail in the following section. Additional tabular data concerning the water supply systems are presented at the end of this chapter in Sections 3.4 through 3.11.

The arrangement of water sources throughout Allegany County, Maryland as well as Southern Pennsylvania provide water supply systems arranged in spider-like fashion throughout the County. There are more service areas than sources, signifying many of the sources supply water for more than one service area. For example, the City of Cumberland's water supply comes from Southern Pennsylvania's Lakes Koon and Gordon. Water flows into Cumberland and serves areas north, south, east, and west of the City. The City of Frostburg receives water from Piney Reservoir in Garrett County and several wells and springs also located in Garrett County.

Mount Savage, the newest extension of the Frostburg system, receives its water after it passes through five other communities (Frostburg, Borden, Zihlman, Morantown, and Slabtown). The topography of Frostburg compared to Mount Savage necessitates the use of pressure-reducing valves to provide water at usable pressures to Mount Savage residents, despite providing water to several other communities in between.

A. Evitts Creek System – Eastern Region

The Evitts Creek System is served by Lakes Koon and Gordon located north of the Mason-Dixon Line in Bedford County, Pennsylvania. The Lakes are owned by the Evitts Creek Water Company which is an agency of the City of Cumberland. Lake Gordon and Lake Koon have a combined capacity of approximately 3.4 billion gallons. The water treatment plant is operated by the Evitts Creek Water Company and provides conventional treatment. The Evitts Creek System currently serves roughly 40,000 customers in Maryland, with additional customers in Pennsylvania and West Virginia with an average of 8.30 million gallons per day (MGD). The safe yield of the reservoir (16 MGD) and rated treatment capacity (15 MGD) of the water treatment plant are expected to meet the needs of the tri-state area for the foreseeable future. The Evitts Creek Water Company has projects planned for the water supply and treatment systems in the next ten years which include system improvements, upgrades, and a tank replacement. At this time there are no alternatives for providing new or additional water supplies to the Evitts Creek System, as the need is not present.

Lakes Gordon and Koon do not have significant sources of contaminants present within the 50.8 square mile watershed, as about eighty percent of the watershed is forested or wetlands and there are no urban areas present. However, there is potential for the lakes to be affected by certain non-point sources of pollution identified in the 2014` Source Water Protection Plan. The possible pollutants identified include nutrients, pesticides, and sediment, which have been attributed to faulty septic systems in residential areas, agriculture, and forestry activities. There is also potential for hazardous

material contamination to occur if an incident were to happen on a roadway within the watershed, which includes a portion of U.S. Route 220 (Evitts Creek Watershed Protection Committee).

The Evitts Creek System is comprised of numerous service areas that are owned and operated by various utilities. These utilities, with the exception of the City of Cumberland, purchase their water supply from the City of Cumberland.

1. City of Cumberland Service Area

The City of Cumberland service area serves approximately 8,900 residential accounts within the city limits as well as 950 additional customers in areas contiguous with the service area. The City of Cumberland service area and water lines are shown in Appendix 3.02. In addition, the City of Cumberland supplies water to industries, including the AES Warrior Run power plant, which consumes an average of 1.7 MGD of water. The City of Cumberland service area infrastructure is maintained by the City of Cumberland Public Works Department. Unique to the City of Cumberland service area are many private "water companies". These companies are responsible for maintaining their own infrastructure, may bill individual customers, and typically consist of a dozen residences or less. The water companies include, but are not limited to: DeHaven Road Improvement Company, Country Club Road Water Associates, Bohrer Water System, Wolfe Mill/Perrini, Christie Road, R.L. Popp, Growdenvale Improvements, Mason Road Water Association, Hillcrest, Mason Road, Evitts Creek, Morningside Drive, and J.W. Harper. The residential areas associated with water companies are mapped as part of the City of Cumberland service area.

2. Bedford Road Service Area

The Bedford Road water service area serves approximately 40 customers and is operated by the Allegany County Department of Public Works - Utilities Division. The service area is located in two separate neighborhoods northwest of the City of Cumberland. The Shades Lane area consists of 17 customers and is located south of Naves Cross Road. The Meders Lane area consists of 25 customers and is located on either side of Bedford Road (MD Route 807), approximately one mile north of the intersection of MD Route 807 and Naves Cross Road (Appendix 3.03). Water is purchased from the Evitts Creek Water Company and treated in the manner described in Section 3.01.A.

Both the Meders Lane and Shades Lane areas received new distribution systems in the early 2010s. No improvement projects are planned for either system at this time. However, funding from the United States Department of Agriculture (USDA) has been utilized to complete a Preliminary Engineering Report and Environmental Report to determine the best way to construct a complete replacement of the water system(s) along the entire Bedford Road corridor. This project is still in the early stages of design and would likely be implemented in several small phases assuming funding can be successfully procured. More updates to a corridor-wide Bedford Road Water System project will be available in future amendments and updates to the Allegany County Water & Sewerage Plan.

3. Bowling Green Service Area

The Bowling Green water service area serves approximately 950 customers and is operated by the Allegany County Department of Public Works - Utilities Division. The service area is located southwest of Cumberland along Route 220 and serves the Bowling Green and Potomac Parks areas (Appendix 3.04). The State Correctional Institutions are billed directly by the City of Cumberland.

Water is purchased from the Evitts Creek Water Company and treated in the manner described in Section 3.01.A.

The Bowling Green service area is in the midst of a multi-year, multi-phase improvement project to its water distribution system. Improvements to the Moss Avenue waterline were completed in 2014. 2015 work includes Phase I distribution system improvements on Cresap Drive. Future phases will be constructed as funding becomes available. Please refer to the latest Allegany County Capital Improvement Program update for more project information.

4. Bowmans Addition Service Area

The Bowmans Addition water service area serves 255 customers and is operated by the Allegany County Department of Public Works - Utilities Division. The service area is located northeast of Cumberland along Valley Road (Appendix 3.05). Water is purchased from the Evitts Creek Water Company and treated in the manner described in Section 3.01.A.

Operations for the Bowmans Addition water service area were taken over by the Allegany County Department of Public Works - Utilities Division subsequent to the Bowmans Addition Water projects (both Phases I and II) in 2012. No additional improvement projects are planned at this time.

5. Cresaptown Service Area

The Cresaptown water service area serves approximately 800 customers and is operated by the Allegany County Department of Public Works - Utilities Division. The service area is located in Cresaptown, which lies at the intersection of Winchester Road and McMullen Highway-US Route 220 (Appendix 3.06) and Bel Air, immediately to the west of Cresaptown. Water is purchased from the Evitts Creek Water Company and treated in the manner described in Section 3.01.A.

Several improvement projects were completed in 2012 and included line and meter replacement and construction of a new water storage tank. This occurred soon after the Allegany County Department of Public Works - Utilities Division assumed operation and maintenance of the system from the Cresaptown Civic Improvement Association in the early 2010s. No future major improvement projects are planned at this time except as needed to support the Rawlings Service Area.

6. Corriganville/Ellerslie Service Area

The Corriganville/Ellerslie water service area serves approximately 725 customers and is operated by the Allegany County Department of Public Works - Utilities Division. The service area is located northwest of Cumberland and northeast of Frostburg (Appendix 3.07). Corriganville is located along MD Route 36 and Ellerslie lies north of Corriganville along MD Route 35/Ellerslie Road NW. Water is purchased from the Evitts Creek Water Company and treated in the manner described in Section 3.01.A.

Future construction projects include some pumping and line replacements to improve pressure problems. This and any other proposed projects would likely seek funding assistance through grants and loans from United States Department of Agriculture – Rural Development as well as Maryland Department of the Environment.

7. Barton Business Park Service Area

The Barton Business Park water service area serves the Barton Business Park and is operated by the Allegany County Department of Public Works - Utilities Division. The Barton Business Park is located southwest of Cumberland at the intersection of U.S. Route 220 and State Highway 956 (which crosses the Potomac River into West Virginia and becomes County Route 9), as shown in Appendix 3.08. The Business Park parallels the Potomac River. Water is purchased from the Evitts Creek Water Company and treated in the manner described in Section 3.01.A.

No improvement projects are currently planned for this service area except as needed to support the Rawlings Service Area. However, the Barton Business Park currently has vacant lots which may be occupied by new businesses in the future. New tenants within the Business Park will not have a daily demand that would exceed system capacity.

8. Oldtown Road Service Area

The Oldtown Road water service area serves approximately 325 customers and is operated by the Allegany County Department of Public Works - Utilities Division, as shown in Appendix 3.09. The service area is located along Oldtown Road/MD Route 51 which runs south from Cumberland towards the Mexico Farms service area (see the following section - Mexico Farms Service Area). Water is purchased from the Evitts Creek Water Company and treated in the manner described in Section 3.01.A.

No improvement projects are currently planned for this service area. Any proposed projects would likely seek funding assistance through grants and loans from United States Department of Agriculture – Rural Development as well as Maryland Department of the Environment.

9. Mexico Farms Service Area

The Mexico Farms water service area serves approximately 150 residential customers and 19 commercial customers and is operated by the Allegany County Department of Public Works - Utilities Division. The service area is located south of Cumberland and serves homes along Mexico Farms Road surrounding the Mexico Farms/North Branch Industrial Park area (Appendix 3.10). In addition, Allegany County Department of Public Works - Utilities Division also serves businesses (with the exception of AES-Warrior Run) and the Federal Correctional Institution located in the North Branch Industrial Park. Water is purchased from the Evitts Creek Water Company and treated in the manner described in Section 3.01.A. Average demand for the service area is 0.025 MGD (residential) and 0.370 MGD (commercial) (CY 2014). Operation, maintenance, and debt payment costs for the Mexico Farms service area are $74/quarter for customers of the system in FY 2016.

No improvement projects are currently planned for this service area. Any proposed projects would likely seek funding assistance through grants and loans from United States Department of Agriculture – Rural Development as well as Maryland Department of the Environment.

10. Rawlings Service Area

The Rawlings service area (see Appendix 3.11) serves the Rawlings community of approximately 350 customers. Allegany County has recently completed a three-phase replacement project to provide water service and fire protection and eliminate the need for the existing Rawlings Water Company. A new water distribution system and storage tank was constructed.

The system will now be operated by the Allegany County Department of Public Works - Utilities Division. Due to the new distribution system and tank, no improvement projects are planned at this time.

11. Pinto Service Area

The Pinto service area serves a population of approximately 2,540 (Appendix 3.12), primarily in the Bel Air and Glen Oaks developments. Maryland Water Service operates the public water distribution system and purchases an average of 0.13 MGD from the Allegany County Cresaptown Service Area. The Maryland Water Service is planning to construct a new 75,000 gallon potable water storage tank on their existing water storage site west of Trail Ridge Road. Any new improvements to the distribution system would likely be funded by private bank financing.

12. LaVale Service Area

The LaVale service area is operated by the LaVale Sanitary Commission; there are 2,000 people served and the service area is delineated in Appendix 3.13. The LaVale service area is considered part of the Evitts Creek System because treated water is purchased for LaVale from the Evitts Creek Water Company. In addition, the LaVale service area water supply is supplemented by four wells and two springs operated by the LaVale Sanitary Commission. The average production for the LaVale service area is 0.125 MGD. The raw water sourced from the wells and springs is treated by diatomaceous earth pressure filtration at a water treatment plant and the production capacity is up to 0.50 MGD. There are no new proposed water sources at this time.

Operation and maintenance costs for the LaVale Sanitary Commission are approximately $750,000 per year. Any improvements will be financed through grants and loans. Project-specific details can be found in Sections 3.04 and 3.11.

B. Frostburg System

The Frostburg System serves the City of Frostburg and several smaller communities surrounding the city. There are more than 12,500 people served by the Frostburg System. The service areas outside the city limits (with the exception of Catherine Street, Tisdale Street, and part of Welsh Hill Road) are all operated by Allegany County Department of Public Works - Utilities Division; Allegany County purchases treated water from the City of Frostburg to supply these areas.

The water sources for the Frostburg Water System include Piney Dam Reservoir on Piney Creek, two wells, and numerous springs located in Garrett County on Savage Mountain, which is known as the Frostburg Savage Pumping Station. Piney Dam Reservoir is located northwest of the City of Frostburg in Garrett County, Maryland. The reservoir has a capacity of 400 MG, with a gross safe yield of 2.50 MGD. The downstream release is 0.74 MGD. There reservoir is subject to pollution by excess nutrients from the agricultural and residential land uses within the watershed. The present average daily withdrawal from the reservoir and the Savage wells and springs is approximately 1.0 MGD. The wells and springs produce excellent quality water and are permitted by the State of Maryland to withdraw quantities of 0.1 MGD and 0.2 MGD, respectively. The Piney Dam reservoir is permitted by the State of Maryland to withdraw 1.3 MGD.

A Water Supply Study Update was prepared by Whitman, Requardt, and Associates, LLP for the City of Frostburg, Allegany County, and MDE in 2008. The study projected water demand for the Frostburg Water System, including Allegany County satellite communities and the addition of the Mount Savage area, would be 2,231,282 gallons per day by the year 2030. At this time, the City is working to maintain its existing water sources to meet the projected demand. The springs and wells at the Savage Pumping Station is a raw water supply that has served the City for more than a century. The springhouses and pipelines connection the springs to the sumps were rehabilitated in 2013-14, with the intention of protecting the source water from contamination and substantially reduce water loss during conveyance from the springs to the sumps. In 2014, the sumps were repaired and relined to further reduce water loss. Also, the pumps and electrical components of the pumping station were replaced to improve the overall electrical efficiency.

All water sources and the raw water transmission main are operated by the City of Frostburg and the conventional water treatment plant is owned by the City of Frostburg and operated by Maryland Environmental Service. The plant is rated for a capacity of 3.0 MGD and daily production averages 1.0 MGD. The City of Frostburg expects to have demand of 1.83 to 2.23 MGD by 2030. There are no new proposed water sources at this time.

1. City of Frostburg Service Area

Within the Frostburg Service Area, the City of Frostburg's Water Department operates and maintains the Frostburg Water Distribution System. The population served in the City of Frostburg Service Area is approximately 9,000 and the area is outlined in Appendix 3.14. In addition, the City of Frostburg is the source of water for all facilities at Frostburg State University. The Operation and Maintenance costs for the Water Treatment Plant and the water distribution system are $1,250,000. Grants and loans will be used to finance improvements to the system.

Proposed improvement projects for the Frostburg raw water source include implementing a variety of source water protection measures. Agriculture pollution, Industrial and domestic pollution are always a concern. Monitoring, testing, and education programs are proposed. Also rapid containment, rapid and efficient cleanup procedures, and supplies and facilities are to be designed and constructed. Interstate 68, U.S. 40 Alt., MD 546, several Garrett County roads and the community of Finzel, Maryland are within the Frostburg watershed. The design and construction containment facilities are proposed in strategic locations to protect the Frostburg source water from highway spills and other possible contamination sources.

The Frostburg Regional Water Treatment Plant (WTP) is supplied with raw water through a single antiquated 1700 foot, 10 inch diameter water main from the upstream raw water supply dam reservoir. This main has failed and has burst frequently. Proposed is a new parallel 12 inch diameter ductile iron pipe at this location, which will make this regional water system more reliable. When the existing 10 inch water main fails, the WTP has to be temporarily shut down to increase the possibility of filter upset and increase turbidity in the finished water. This project will improve water quality. In addition, the City seeks to

construct a raw water storage tank located at the WTP. This tank will provide additional reliability for continuous water supply of good quality to the region.

The City is currently in the process of establishing a GIS database of its critical water infrastructure assets. The GIS project will assist the City with locating its infrastructure, asset management, and criticality assessments. The City seeks to expand the project to include all City maintained water infrastructure. All projects to improve the system will be funded through available grants and loans from MDE, CDBG, and USDA, as well as City cash.

2. Consol Service Area

The Consol water service area serves approximately 70 customers and is operated by the Allegany County Department of Public Works - Utilities Division. The service area is located to the west of Frostburg along Sand Spring Run as seen in Appendix 3.15. Water is purchased from the City of Frostburg and treated in the manner described in Section 3.01.B.

No improvement projects are currently planned for this service area. Any proposed projects would likely seek funding assistance through grants and loans from United States Department of Agriculture – Rural Development as well as Maryland Department of the Environment.

3. Carlos/Shaft/Klondike Service Area

The Carlos/Shaft/Klondike water service area serves approximately 350 customers and is operated by the Allegany County Department of Public Works - Utilities Division. The service area is located to the south of Frostburg along Midlothian Road and MD Route 936 (please refer to Appendix 3.16). Water is purchased from the City of Frostburg and is treated in the manner described in Section 3.01.B.

Allegany County has applied for funding for the extension of the County system in the existing Carlos/Shaft/Klondike service area to the Pond Circle area just north of Midlothian.

No additional improvement projects are currently planned for this service area.

4. Grahamtown Service Area

The Grahamtown water service area serves approximately 275 customers and is operated by the Allegany County Department of Public Works - Utilities Division. The service area is located to the south of Frostburg along MD Route 936 (Appendix 3.17). Water is purchased from the City of Frostburg and treated in the manner described in Section 3.01.B.

No improvement projects are currently planned for this service area. Any proposed projects would likely seek funding assistance through grants and loans from United States Department of Agriculture – Rural Development as well as Maryland Department of the Environment.

5. Hoffman Service Area

The Hoffman water service area serves approximately 20 customers and is operated by the Allegany County Department of Public Works - Utilities Division. The service area is located to the southwest of Frostburg along Hoffman Hollow Road, parallel to Interstate 68 (Appendix 3.18). Water is purchased from the City of Frostburg and treated in the manner described in Section 3.01.B.

No improvement projects are currently planned for this service area. Any proposed projects would likely seek funding assistance through grants and loans from United States Department of Agriculture – Rural Development as well as Maryland Department of the Environment.

6. Eckhart/Clarysville Service Area

The Eckhart/Clarysville water service area serves approximately 655 customers and is operated by the Allegany County Department of Public Works - Utilities Division. The service area is located east of Frostburg along U.S. Route 40, and is delineated in Appendix 3.19. Water is purchased from the City of Frostburg and treated in the manner described in Section 3.01.B.

No improvement projects are currently planned for this service area. Any proposed projects would likely seek funding assistance through grants and loans from United States Department of Agriculture – Rural Development as well as Maryland Department of the Environment.

7. Route 36/Vale Summit Service Area

The Route 36/Vale Summit service area serves approximately 100 customers and is operated by the Allegany County Department of Public Works - Utilities Division. The service area is located south of Frostburg along MD Route 36 and along MD Route 55 in Vale Summit as seen in Appendix 3.20. Water is purchased from the City of Frostburg and treated in the manner described in Section 3.01.B.

Proposed improvement projects for this service area include a water storage tank for the Vale Summit area. The scope of work includes construction of a 257,000 gallon water storage tank in Vale Summit to provide fire flow and water storage for residents of the Vale Summit area. Additional project information can be found in the latest edition of the Allegany County Capital Improvement Program.

8. Borden/Zihlman/Morantown/Slabtown Service Area

The Borden/Zihlman/Morantown/Slabtown water service area serves approximately 420 customers and is operated by the Allegany County Department of Public Works - Utilities Division. The service area is located north of Frostburg along MD Route 36 (Appendix 3.21). Water is purchased from the City of Frostburg and treated in the manner described in Section 3.01.B.

No improvement projects are currently planned for this service area. Any proposed projects would likely seek funding assistance through grants and loans from United States Department of Agriculture – Rural Development as well as Maryland Department of the Environment.

9. Mount Savage Service Area

The Allegany County Department of Public Works – Utilities Division completed a water project in 2014 to provide water service and fire protection to the community of Mount Savage. The project also included the construction of a 294,000 gallon water storage tank. The Mount Savage service area serves approximately 320 customers with service available for approximately 450 customers following completion of system hookups. The Allegany County Department of Public Works - Utilities Division operates the service area, as outlined in Appendix 3.22. Water is brought to the area via the Mount Savage Water Transmission Main. The system connects to the Borden/Zihlman/Morantown/Slabtown service area and brings water to Mount Savage. From there, part of the town is directly served. Water is also taken to a storage tank on Bald Knob Road that is responsible for serving the remainder of the customers.

A water pumping station is currently under construction on Bald Knob Road to serve residences at elevations above the Mount Savage Water Storage Tank. Additionally, Allegany County is planning to extend water service southeast along MD Route 36 from Mount Savage toward Woodcock Hollow Road and into Barrelville (area of intersection of MD Route 47 and MD Route 36). Please refer to the Appendices in the back of this report for the latest project details.

At this time, no other improvement projects are currently planned for this service area.

C. Georges Creek System and Service Area

The Georges Creek System serves the entire Georges Creek valley in western Allegany County from the Town of Midland to south of Barton, as shown in Appendix 3.23. The system is owned by the Town of Lonaconing and serves approximately 5,600 residents. Total operation and maintenance cost for FY 2014 is approximately $800,000. Within the service area, there are five wells and three impoundments, and the water is treated at three separate water treatment plants operated by Miller Environmental Inc. At each of the three plants, the water is treated using an up flow clarifier and mixed media filter. The entire system is rated to provide 0.576 MGD while actual production averages 0.300 MGD.

The Charlestown water treatment plant treats one 30,000 gallon capacity well and the 3.55 MG capacity Jackson Run impoundment. The average daily withdrawal is 0.100 MGD. The Charlestown plant is rated to treat 0.144 MGD while actual production averages 0.075 MGD.

The Koontz water treatment plant treats three wells and the 3 MG capacity Koontz Run Raw Water Storage Tank. The average daily withdrawal is 0.100 MGD. The treatment plant production is rated at 0.144 MGD while actual production is 0.075 MGD.

The Gilmore water treatment plant treats two wells and the Elk Lick Run Impoundment. The wells produce 90,000 GPD with a maximum of 200,000 GPD during the peak season. The reservoir has a capacity of 4.03 MG and an average daily withdrawal of 0.175 MGD. The Gilmore plant production rating is 0.288 MGD while actual production averages 0.150 MGD.

Several projects were recently completed:

- Complete transition to all radio read meters
- Installation of backup generators at each of three water treatment plants
- Fencing around Gilmore and Charlestown Reservoirs
- New 0.483 MG water storage tank on Dans Rock Road in Midland
- New 3.0 MG Koontz raw water storage tank with fencing and a SCADA monitoring system

The system is also slated to be updated through the following projects:

- Potomac Hollow Road Waterline Extension
- Water Station Run Road Waterline Extension
- Koontz Backwash line
- Town Water Maintenance Garage in Lonaconing

D. Savage River System

The Savage River System serves the Town of Westernport and a small area just north of Westernport, referred to as Franklin/Brophytown. The water source is the Savage River Reservoir located northwest of Westernport in Garrett County, Maryland. A large portion of the watershed is located within the Savage River State Forest and is predominately forested. The reservoir is operated by the Upper Potomac River Commission and has a capacity of six billion gallons with a safe yield of 15 MGD. In addition, there is an average release of 100 cfs for flow control in the Savage and the Potomac Rivers. The Source Water Assessment states that the water quality in the Savage River Reservoir is "generally excellent", and the only concerning water quality indicator is periodic levels of high turbidity.

The water supply is treated by the City of Westernport's filtration plant. The plant is rated to produce up to 1.0 MGD while actual production averages 0.5 MGD. Improvements to the water treatment plant would likely be financed through state and federal agencies including Maryland Department of the Environment, United States Department of Agriculture – Rural Development, and United States Department of Housing and Urban Development - Community Development Block Grant programs. The Operation and Maintenance costs for the system are approximately $400,000 per year. There are no new proposed water supplies for the Savage River System, as the reservoir meets current and future demands.

1. Westernport Service Area

The Westernport system is operated by the Town of Westernport and serves 1,143 customers (1,298 EDU) with approximately 0.5 MGD. The distribution system in Westernport is in poor condition and is in need of ongoing repair and rehabilitation. There are localized issues within the system. For example, there are quality problems at Horse Rock. Recent improvements include the Phase III Water Distribution System project. The Westernport service area is shown in Appendix 3.24.

Several future projects have been identified for the Town of Westernport. Allegany County recently assisted the Town of Westernport to complete a Preliminary Engineering Report to obtain funding to make improvements to the Town system. Improvements include construction of a 750,000 gallon storage tank to replace the existing backwash supply tank, construction of a pump station to feed the proposed tank, and construction of new water line to serve additional customers. System pressures will be improved for customers of the system at the highest elevations and fire flow protection will be increased.

Future phases of the proposed improvements include construction of approximately 5,200 linear feet of water line to supply the Town of Luke with drinking water. Currently, the Verso Corporation provides the potable water to the Town of Luke (see information regarding treatment in following sub-section). The completion of this project would provide high quality drinking water to the citizens of Luke, while also having an economic benefit to all customers within the Savage River System. Another stated goal of the project is to provide a possible interconnection point for a future waterline to the Town of Bloomington in Garrett County.

These projects will likely be financed through state and federal agencies including Maryland Department of the Environment, United States Department of Agriculture – Rural Development, and United States Department of Housing and Urban Development - Community Development Block Grant programs.

2. Franklin/Brophytown Service Area

The Franklin/Brophytown water service area serves the Moran Manor Health Center and the Grande View Senior Apartments (approximately 160 residents) and is operated by the Allegany County Department of Public Works - Utilities Division. The service area is located along MD Route 36 just north of the town of Westernport (Appendix 3.25). Water is purchased from the Town of Westernport and treated in the manner described in Section 3.01.D. Operation, maintenance, and debt payment costs for the Franklin/Brophytown service area are $74/quarter for customers of the system in FY 2016.

No improvement projects are currently planned for this service area. Any proposed projects would likely seek funding assistance through grants and loans from United States Department of Agriculture – Rural Development as well as Maryland Department of the Environment.

E. Verso Corporation System and Service Area

The Verso Corporation System is operated by the Verso Corporation. The water source for the system is the North Branch Potomac River. The water treatment plant uses rapid sand filtration and is rated to treat 30 MGD. Average production is 23.0 MGD. The system serves the Town of Luke, with a population of approximately 63 people, the Verso Paper Mill, with a staff of 800 people, and all industrial processes related to paper production (Appendix 3.26).

For more information on a potential new water source for the Verso Corporation System, please refer to Section 3.1.D.1 about the Town of Westernport.

F. Keyser, WV System

The Keyser System is located in Keyser, West Virginia, and serves Keyser area in addition to selling treated water to the Allegany County Department of Public Works - Utilities Division to supply the McCoole service area with public water. The system serves approximately 9,000 residents in total. The water supply for the Keyser system is New Creek, a stream located in West Virginia. The City of Keyser operates the water treatment plant, which is rated to produce 3 MGD, actual production is 1.1 MGD.

1. McCoole Service Area

The McCoole water service area serves 307 customers and is operated by the Allegany County Department of Public Works - Utilities Division. The service area is located south of Cumberland and east of Westernport at the intersection of U.S. Route 220 and MD Route 135 (Appendix 3.27). Water is purchased from the City of Keyser, WV and treated in the manner described in Section 3.02.06. Average demand on the service area is 0.050 MGD (CY 2014). Operation, maintenance, and debt payment costs for the McCoole service area are $90/quarter for customers of the system in FY 2016.

A water pump station project was completed in 2012 at the Route 220 Bridge over the North Branch Potomac River. This was part of the Route 220 Bridge Project, and was funded by the West Virginia Department of Transportation. Tank mixing is planned in the near future. No additional improvement projects are currently planned for this service area. Any proposed projects would likely

seek funding assistance through grants and loans from United States Department of Agriculture – Rural Development as well as Maryland Department of the Environment.

G. Midlothian System and Service Are

The Midlothian System serves approximately 300 people south of Frostburg (Appendix 3.28). The water system is operated by the Midlothian Water Company. There are two wells that supply the system, which are rated to produce 100,000 gallons per day; the actual production is 26,000 gallons per day. Green sand filters with $KMnO_4$ (potassium permanganate) are used to treat and remove iron from the ground water. The water quality is fair to good, as there is iron and some manganese present in the raw water. The annual operation and maintenance costs for the Midlothian Water Company are approximately $20,000. At this time, there are no planned projects and no new proposed water sources. If improvements to the system are needed in the future, expenses would be self-financed.

Long term plans may include a distribution system replacement and connection to the City of Frostburg water supply and could be operated and maintained by Allegany County.

H. Broadwater Addition System and Service Are

The Broadwater Addition System serves the small community of Broadwater Addition, as shown in Appendix 3.29. The system is operated by the Broadwater Addition Water Company, and provides water to a total of twelve residences. The source of the water is a well, and operation and maintenance costs are the cost of electric and disinfection. At the present time, the Broadwater Addition Water Company desires to apply for grant money to fund improvements.

1. Martins Mountain System and Service Area

The Martins Mountain water system is a private system that serves approximately 12 households located on top of Martins Mountain, southeast of Cumberland (Appendix 3.30). This residential area was previously an apple orchard and water quantity has been an issue in the area. In the late 1990's a well was drilled at the base of the mountain near Frog Hollow Road to supply the system. The 6" diameter, 160' deep, 28 gpm well is permitted for an average daily withdrawal of 8,000 gpd, which could serve up to a maximum of forty residences. Water quality is excellent. Operation and maintenance costs are $3,000 per year. Improvements are typically funded through tap fees.

I. Reckley Springs System and Service Area

The Reckley Spring water system serves a small community of approximately 45 residences along Brice Hollow Road, southeast of Cumberland (Appendix 3.31). The system is served by a spring that is subject to contamination with volatile organic compounds and coliform bacteria. Water quantity in wells serving this area has historically been an issue. No additional information regarding this system has been provided for inclusion in the Water and Sewerage Plan.

J. Barrelville System and Service Area

The Barrelville water system serves approximately 25 customers in the community of Barrelville, located at the intersection MD Route 36 and MD Route 47 (Appendix 3.32). The system is served by

two wells, which have naturally occurring iron present and also are susceptible to coliform bacteria. The system is operated by a resident of Barrelville; no further information was made available for inclusion in the Water and Sewerage Plan.

K. Bob Candy System and Service Area

The Bob Candy water system is located east of the City of Cumberland (Appendix 3.33). The system is served by a well, and provides water to four residential customers and the Tri State Zoological Park. No additional information was provided for inclusion in the Water and Sewerage Plan.

L. Rocky Gap Mobile Home Park System and Service Area

The Rocky Gap Mobile Home Park system serves approximately 20 mobile homes with water (Appendix 3.35). There are four wells in the system. The water is generally of high quality. No additional information was available for inclusion in the Water and Sewerage Plan.

3.02 Multi-use Water Supply Systems

There are four multi-use water systems in Allegany County. As defined in COMAR 26.03.01.01, a multi-use system is "a single system of piping, pumps, tanks, or other facilities utilizing a source of ground or surface water to supply a group of individuals on a single lot and having a capacity in excess of 1,500 GPD."

A. Rocky Gap System and Service Area

The Rocky Gap System serves the park, campground, golf course, hotel and conference center at Rocky Gap Casino Resort and Rocky Gap State Park. The area is shown in Appendix 3.35. In 2007, there were 820,000 visitors at the State Park. Lake Habeeb is the source of water for the Rocky Gap System, and is rated to treat 239,000 gpd. The average production is 57,753 gpd. The plant is operated by Maryland Environmental Service. Demand is projected to increase due to proposed facilities related to slot machines. There is no new proposed water source. However, in regards to the water treatment plant, replacement has been recommended. A new 130,000 gpd membrane filtration water treatment facility is planned. Maximum production capacity will be 300,000 gpd. Water source will continue to be Lake Habeeb and the existing water treatment plant will be decommissioned. Further details regarding the Rocky Gap water system and operations can be found in the 2009 Water and Sewer Master Plan prepared by Maryland Environmental Service.

B. Green Ridge Boys Camp System and Service Area

The Green Ridge Boys Camp water system is operated by Maryland Environmental Service (Appendix 3.36). The system is served by three wells and the water treatment plant is rated for 63,000 gpd. The service area is located in eastern Allegany County within Green Ridge State Forest, south of I-68. The average population is 35 students and 10 faculty members. There are no future plans for expansion, and upgrades are performed as needed. Additional information about the water system at Green Ridge Boys Camp can be found in the 2009 Water and Sewer Master Plan prepared by Maryland Environmental Service.

C. Little Orleans Campground System and Service Area

The Little Orleans Campground is located in eastern Allegany County near the Potomac River (Appendix 3.37). The system is served by three wells that produce 3,000 gpd and provide water for 200 campsites. There are separate water treatment systems for each well; two are disinfected with UV light, the third is treated with potassium permanganate. Rated production capacity is 2,000 gpd per well, actual production is 1,000 gpd per well. There is a planned expansion of an additional 1,000 gpd for 2011 to accommodate additional campsites. An additional well is proposed as the water source. The system is operated by Little Orleans Campground. The water quality is generally good with low amounts of iron and sulfur.

D. Dan's Mountain System and Service Area

The Dan's Mountain water system is operated by Maryland Environmental Service and is located in Dan's Mountain State Park (see Appendix 3.38). The system has two active wells and production is rated at 28,800 gallons per day. The system also contains one inactive well, two treatment facilities, an

18,000 gallon standpipe, a 6,000 gallon hydropneumatic tank, a 30 gallon bladder/pressure tank, and approximately 12,000 feet of distribution network piping.

The system provides water to two separate regions of the park: upper and lower. The upper portion of the system treats water via two greensand filters, potassium permanganate and sodium hypochlorite feed system, two booster pumps, standpipe, and hydropneumatic tank. The lower portion of the system treats water via sodium hypochlorite feed facilities and a bladder/pressure tank.

3.03 Future Water Service Areas

Proposed expansions to existing water systems are delineated as future service areas on the Water Service Area map found in an enclosure at the end of this Plan, and are also listed in Section 3.04. Projected growth of the water service areas can be attributed to one or more of the following situations: new subdivisions in which utilities are to be constructed to county specifications, poor well water quality and/or quantity. Nearly all of the proposed new service areas are adjacent to existing service areas and will utilize existing capacity present within the current water supply and conveyance system.

A. Flintstone Water Supply

The Flintstone area is currently served by individual wells and the groundwater supply has a long history of problems ranging from low pressure to elevated levels of fecal coliform bacteria. A possible opportunity to address these problems has emerged in the form of an existing mineral extraction operation on Martins Mountain. This sand and gravel operation currently utilizes five wells to provide water for its operation. This project is nearing its projected extraction duration and these wells could possibly be used to provide water to the residents of Flintstone. The owner/operator supports this use and is interested in transitioning these wells to some form of public-private management.

A water tank and/or holding facility would need to be constructed just east of the Martins Mountain ridge. Sufficient suitable land area is available adjacent to the wells. This water supply infrastructure may address the existing water pressure and water quality problems currently experienced in Flintstone.

B. Terrapin Run

The Terrapin Run development was approved by the Allegany County Board of Zoning Appeals as a 4,300 unit Planned Residential Development. This area is not currently supported by any type of water supply system. Through their review and approval of the 2007 Master Water & Sewer Plan, the Planning & Zoning Commission reduced the scope of this development by nearly 80 percent (from 4,300 to 920 units). Additionally, these units were to be sequenced in such a manner that no more than 360 would be constructed within the first 10 years and would be subject to MDE issuing a groundwater appropriation permit for the community production wells.

Development of this project has been delayed by law suit and appeals and its future is unclear. What is certain is that this development will not have a significant landscape-level impact and development activities will be on a minor scale with water being supplied through onsite resources. A scale of

development that exceeds the reduced scope will necessitate some type of large-scale community surface water supply system that must be engineered and financed through private means.

3.04 Water Projects

This section identifies projects that have been completed in the time frame since the adoption of the 2010 Master Water and Sewer Plan Update. All known proposed projects scheduled to take place within the next ten years are listed, whether publicly or privately funded. The public projects are also described and mapped in Section 3.11. Private projects are italicized and are subject to approval by required permitting agencies.

Completed Projects (Since 2010 Allegany County Water & Sewerage Plan)

- Allegany County – Bowmans Addition Water – Phase 2
- Allegany County – County Water & Sewer Study
- Allegany County – Cresaptown Water Line
- Allegany County – Cresaptown Water Meter Replacement
- Allegany County – Cresaptown Water Tank
- Allegany County – Meders Lane Water
- Allegany County – Moss Avenue Water Line
- Allegany County – Mount Savage Water Distribution System
- Allegany County – Rawlings Water Phases 1 & 2
- Allegany County – Shades Lane Water
- Cumberland – Asbestos/Concrete Pipe Replacement
- Cumberland – Chlorine Handling System Improvements
- Cumberland – Fort Hill Reservoir Valve Replacement
- Cumberland – Water Filtration Plant Outfall Re-design/Relocation
- Cumberland – System Rehab & Extension
- Frostburg – Raw Water Transmission Main Upgrade and Low Head Hydroelectric Plant
- Frostburg – Savage Raw Water Improvements and Energy Conservation Project
- Westernport – Phase II Water Distribution System

W-1, Under Construction

1. Allegany County – Bald Knob Water
2. Allegany County – Bowling Green Water Improvements – Phase 1
3. Allegany County – Rawlings Water Phase 3

W-2, Final Planning Stages

4. Allegany County – Bowling Green Water Improvements – Phase 2
5. Allegany County – Creek Road Water
6. Allegany County – McCoole Water Meter Replacement
7. Allegany County – Pond Circle Water
8. Allegany County – Potomac River Water Treatment Plant Study
9. Allegany County – Prince Albert Water
10. Allegany County – Route 36 Water
11. Allegany County – Sunnyside Water
12. Cumberland Chase Subdivision (near Pinto)
13. Dan's Mountain State Park – New Well Construction
14. Dan's Mountain State Park – Water Treatment Building Rehabilitation
15. Frostburg – 16" Water Main Rehab & Valve Replacement
16. Frostburg – Raw Water Supply Impoundment at Water Treatment Plant, Rehab and Improvements
17. Georges Creek - Koontz Run – New 3 MG Raw Water Tank to Replace Reservoir
18. LaVale – Grant Street Water Tank Replacement Project
19. Lonaconing – Maintenance Garage
20. Lonaconing – Potomac Hollow Road Waterline Extension
21. Lonaconing – Water Station Run Road Waterline Extension
22. Midland – 0.5 MGD Water Storage Tank
23. Pinto – Maryland Water Service, New Water Storage Tank
24. Westernport – Tree Farm Tank, Pump Station, and Waterline
25. Westernport – Water Distribution System Replacement – Phase III
26. Westernport – Water Line Project to Town of Luke and Verso Mill

W-3, Immediate Priority

27. Allegany County – Mount Savage Regional Water System Extension
28. Allegany County – Vale Summit Water Storage Tank
29. Cumberland – Citywide System Rehab & Extension
30. Cumberland – Finish Water Storage Tank (Repainting/Repair)
31. Cumberland – McNamee Area Water System & Tank Upgrade
32. Cumberland – Route 51 Waterline Replacement
33. Cumberland – Source Water Protection Projects
34. Cumberland – Water Filtration Plant Rehabilitation/Improvements
35. Cumberland – Water System Study (Citywide)
36. Cumberland – Willowbrook Road Waterline Rehabilitation and Replacement
37. Frostburg – WTP Main Replacement
38. Frostburg – WTP Raw Storage Tank Construction
39. Georges Creek – Upper Charlestown Road Line and Tank Project
40. LaVale – Replace Grant Street Water Storage Tank
41. Morgan Farm Subdivision (near Frostburg)

42. Sand Spring Subdivision, Phase II (Frostburg)

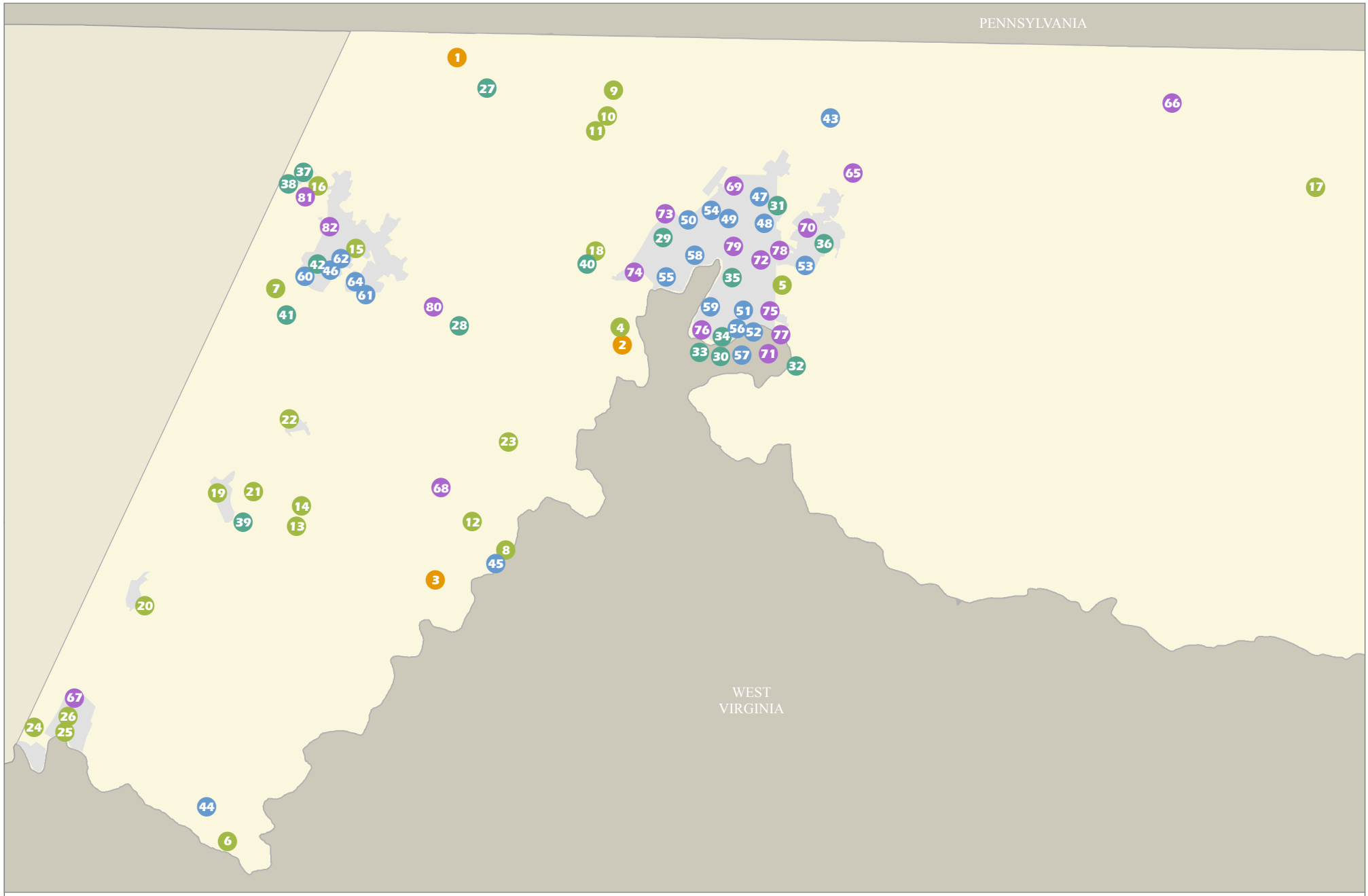
W-4, Six-Year Period

43. Allegany County – Bedford Road Water Project
44. Allegany County – McCoole Tank Mixing
45. Allegany County – Potomac River Water Treatment Plant
46. Braddock Estates, Phase III & IV (Frostburg)
47. Cumberland – 36" Main Upgrade
48. Cumberland – Asbestos/Concrete Pipe Replacement
49. Cumberland – Citywide System Rehab & Extension
50. Cumberland – Evitts Creek Pump Station – Pump Replacement/Rehabilitation
51. Cumberland – Filtration Plant Dam Bar Screens Replacement/Upgrade
52. Cumberland – Filtration Plant Raw Water Intake Replacement
53. Cumberland – Meter Improvements/Change-out for Water System
54. Cumberland – North End System & Pipe Upgrades
55. Cumberland – Ridgedale Pump Station – Pump Replacement/Rehabilitation
56. Cumberland – Source Water Protection Projects
57. Cumberland – Water Filtration Plant Rehabilitation/Improvements
58. Cumberland – West End System & Pipe Upgrades
59. Cumberland – Water Valves/Water Line Rehabilitations (Citywide)
60. Exit 33, I-68 at Braddock Road (Frostburg)
61. Exit 34, I-68 at Route 36 (Frostburg)
62. Frostburg – Distribution System for Braddock Estates to Welsh Hill to Cherry Lane
63. Little Orleans Campground Service Area Expansion
64. Prichard Farms Subdivision (near Frostburg)

W-5, Ten Year Period

65. Allegany County – Baltimore Pike Water Service
66. Allegany County – Flintstone Water Supply and Distribution
67. Allegany County – Westernport Water Line
68. Cumberland Chase Subdivision (later Phases)
69. Cumberland – Citywide System Rehab & Extension
70. Cumberland – Disinfection Byproduct System Upgrade
71. Cumberland – Filtration Plant Standby Backwash Pump
72. Cumberland – Fort Hill Reservoir Replacement/Replacement
73. Cumberland – Haystack Tank Replacement
74. Cumberland – Seneca Area Supply Upgrades/Replacement
75. Cumberland – Source Water Protection Projects
76. Cumberland – South End System & Pipe Upgrades
77. Cumberland – Water Filtration Plant Rehabilitation/Improvements

78. Cumberland – Willowbrook Road Corridor Water System Expansion
79. Cumberland – "Crosstown 24" Mains Rehabilitation and Replacement
80. Harwood – Vale Summit Water Service
81. Frostburg – Secondary Hydro Package Plant at Water Treatment Plant
82. Frostburg – Water Distribution System Hydraulic Loop Extension, Project C2 & C3
83. Frostburg – Rapid Containment & Cleanup Procedures



Planned County Water Service Projects
Appendix 3.39

0 15,000 30,000 Feet

1 inch = 16,000 feet

N

Category
- W-1
- W-2
- W-3
- W-4
- W-5

3.05 Inventory of Existing Community System Wells

Table 3.1 Inventory of Existing Community System Wells

Water Service Area	Well Name or Number	Aquifer	Depth of Well	Diameter of Well	Pumping Capacity	Water Quality
Frostburg	Frostburg Savage Pumping Station well – GA-1979G012 springs – GA-1985G007	Pocono Formation	200 ft	8 in	100,000 gpd wells/ 200,000 gpd springs	excellent
Midlothian	AL-88-0230		150 ft	6 in	100,800 gpd	fair-good
Midlothian	AL-81-0820		150 ft	6 in	72,000 gpd	fair-good
Lonaconing	Charlestown #2 AL-94-0661	Conemaugh Formation	505 ft	6 in	30,000 gpd	good
Lonaconing	Koontz #1 AL-94-0553	Conemaugh Formation	400 ft	6 in	43,200 gpd	fair
Lonaconing	Koontz #2 AL-94-0648	Conemaugh Formation	505 ft	6 in	no pump	fair
Lonaconing	Koontz #3 AL-01-1429	Conemaugh Formation	1276 ft	6 in	artesian	fair
Lonaconing	Gilmore #1 AL-01-4379	Conemaugh Formation	1354 ft	6 in	90,000 gpd, max 200,000 gpd	good
Lonaconing	Gilmore #2 AL-88-2080	Conemaugh Formation	200 ft	6 in	90,000 gpd, max 200,000 gpd	good
LaVale	LaVale #1	Greenbrier Formation	250 ft avg.	8 in	35,000 gpd avg	good
LaVale	LaVale #2	Greenbrier Formation	250 ft avg.	8 in	35,000 gpd avg	good
LaVale	LaVale #3	Greenbrier Formation	250 ft avg.	8 in	35,000 gpd avg	good
LaVale	LaVale #4	Pocono Formation	250 ft avg.	8 in	35,000 gpd avg	fair
LaVale	LaVale #6	Pocono Formation	250 ft avg.	8 in	35,000 gpd avg	fair
Green Ridge Youth Center	GR Well #1	-	100 ft	6 in	13,000 gpd	good
Green Ridge Youth Center	GR Well #2	-	200 ft	6 in	14,400 gpd	good
Green Ridge Youth Center	GR Well #3	-	unknown	unknown	n/a	poor
Non-community						
Little Orleans Campground	L.O. Well A		325 ft	6 in	14,400 gpd	good
Little Orleans Campground	L.O. Well B		200 ft	6 in	14,400 gpd	good
Little Orleans Campground	L.O. Well C		90 ft	6 in	14,400 gpd	good

3.06 Inventory of Existing Impounded Supplies

Table 3.2 Inventory of Existing Impounded Supplies

	Impoundment Name	Crest Elevation (above sea level)	Total Length of Dam	Height of crest above stream bed	Flooded area of crest elevation	Length of shore line at crest elevation	Area of land owned	Date water overflowed crest for first time	Capacity of reservoir	Safe yield (MGD)	Average daily withdrawl (MGD)
Municipal											
Upper Potomac River Commission	Savage River Reservoir	1,497.5 ft	1,050 ft	184 ft	382 acres	10 miles	521 acres	1950's +/-	18,500 ac-ft	15	65 - includes 100 cfs low-flow release
Town of Lonaconing	Jackson Run	1,760 ft	185 ft	22-25 ft	1.06 acres	885 ft	none	1900 +/-	10.9 ac-ft	1.4	0.1
Town of Lonaconing	Koontz Run	2,050 ft	115 ft	22-25 ft	0.50 acres	420 ft	25 acres	1920's +/-	5.6 ac-ft	2.8	0.1
Town of Lonaconing	Elk Lick Run	1,880 ft	229 ft	22-25 ft	1.28 acres	1,070 ft	25 acres	1930	12.4 ac-ft	2.2-2.5	0.175
City of Frostburg	Piney Dam Reservoir	2,381.5 ft	1,275 ft	46 ft	110 acres	5 miles	1,600 acres	N/A	1,228 ac-ft	2.3	0.7 - GA-1975S006(05)
Evitts Creek Water Co. (Cumberland)	Lakes Gordon & Koon	948 ft	150 ft	75 ft	326 acres	-	4,100 acres	1913	10,434 ac-ft	16	7.5
Private Community											
Rocky Gap State Park	Lake Habeeb				243 acres		3,329 acres				0.142

3.07 Inventory of Other Surface Water Supplies

Table 3.3 Inventory of Other Surface Water Supplies

Planned Withdrawal Source	Planned Project Name	Description	Status
North Branch Potomac River	Potomac River Water Treatment Plant	The Rawlings area along U.S. Route 220 is in need of water supply upgrades or replacement. One alternative is to withdraw water from the North Branch of the Potomac River for use in a Water Treatment Plant. This would provide reliable drinking water to customers and provide opportunities for bulk wholesaling in the future. The project could be designed in phases, beginning with a Raw Water Intake/Pump Station phase, followed by phases for construction of a base plant, a build-out area, and finally an ultimate plant layout.	The Allegany County Utilities Division is awaiting feedback from the Maryland Department of the Environment (MDE) regarding a recently submitted Water Appropriation Permit Renewal for permission for water withdrawal from the Potomac River. Design of this project will continue as more information is received from MDE regarding the status of the Water Appropriation Permit Renewal.

3.08 Inventory of Existing Water Treatment Facilities

Table 3.4 Existing Water Treatment Facilities

List of Owners	Water source	Type of treatment	Rated plant capacity (MGD)	Average Production (MGD)	Max. Peak Flow (MGD)	Storage Capacity (MGD)	Planned Expansion MDG/Dates	Method of Sludge Disposal	Operating Agency
Municipal									
City of Frostburg	Piney Dam Reservoir and Savage Pumping Station	Conventional	3.0	1.0	2.0	5.0	1.5 / 2030	drying beds	City of Frostburg
Midlothian Water Co.	two wells	Green Sand Filters with KMnO4	0.1	0.026	0.058 (during leak)	0.03	n/a	Private Septic Company	Midlothian Water Co.
Town of Lonaconing	Jackson Run & 1 Well	Up Flow Clarifier w/ Mixed Media Filter (1)	0.144	0.075	0.1675	0.212	n/a	Sanitary Sewer	Miller Environmental Inc.
Town of Lonaconing	Koontz Run & 3 wells	Up Flow Clarifier w/ Mixed Media Filter (1)	0.144	0.075	0.1675	0.292	new 3 million gal. raw water tank	Sanitary Sewer	Miller Environmental Inc.
Town of Lonaconing	Elk Lick Run & two wells	Up Flow Clarifier w/ Mixed Media Filters (2)	0.288	0.15	0.335	0.5	new 500,000 gal. storage tank / 2013	Sanitary Sewer	Miller Environmental Inc.
City of Cumberland	Lakes Gordon and Koon	Conventional	15.0	7.5	12	Source- 3.4 billion gallons, Water Plant 1.8 MG, Tanks and Res. 7.8 MG max	n/a	land application	Evitts Creek Water Company
Town of Westernport	Savage River Reservoir	Filtration	1.0	0.5	1	1.05		Public Sewer System	Town of Westernport
LaVale Sanitary Commission	5 wells & 2 springs	Diatomaceous Earth Pressure Filtration	0.3	0.15	0.03	500,000 raw, 350,00 finished	n/a	Sanitary Sewer	LaVale Sanitary Commission
Municipal/Industrial									
Luke Mill	North Branch Potomac River	Rapid Sand Filter	30.0	25.1	29.0	0.4	n/a	settling pond	Luke Paper Co.
Private Community									
Rocky Gap State Park	Lake Habeeb	Activated Carbon Filters (2), Diatamaceous Earth Filtration Units (2), lime-chlorine-slurry & clearwell	0.239	0.057	0.207	0.5	200,000 gpd WTP with expansion capability to 300,000 gpd / 2011	backwash lagoon	Maryland Environmental Service
Green Ridge Youth Center	2 wells	Green Sand Filters (2) & chemical feed for $KMnO_4$, pre-sodium hypochlorite & soda ash	0.063	0.0032	0.009	0.006	retrofit upgrades / as needed	below grade reservoirs	Maryland Environmental Service
Private Non-community									
Little Orleans Campround	Well A	UV Light	0.002	0.001	0.014	0	1,000 gpd / 2011	none	Little Orleans Campground
Little Orleans Campround	Well B	Green Sand Filters with $KMnO_4$	0.002	0.001	0.014	0		none	Little Orleans Campground
Little Orleans Campround	Well C	UV Light	0.002	0.001	0.043	0		none	Little Orleans Campground

3.09 Inventory of Water Problem Service Areas

Table 3.5 Water Problem Service Areas

	Population				
Location	Served	Unserved	Total	Nature of Problem	Owner
Charlestown Road (Upper)	2,000	50	2,050	Mine drainage in wells	Lonaconing Water Co.
Johns Lane / Ore Banks	100	100	200	No Water Service	LaVale Sanitary Commission
Rocky Gap				WTP is obsolete, replacement recommended	Maryland Environmental Service
Bedford Road				Pressure	Private Water Companies
Flintstone				Increased number of business and private wells under direct influence of groundwater	
Harwood Subdivision - Vale Summit				Poor well water quality identified in sanitary survey	

3.10 Projected Water Supply Demands and Planned Capacity

Table 3.6 Projected Water Supply Demands & Planned Capacity

	2015					
	Pop.			GPCD	Cap. (MGD)	
Service Area	Total	Served	Unserved	gallons	Existing Capacity	demand
Barrelville	56	56		232.1	0.013	0.013
Bob Candy	9	9		110.1	0.001	0.001
Broadwater Addition	28	28		96.4	0.003	0.003
Bowling Green	2,228	2,228		82.5	0.200	0.184
Bowmans Addition - was 375	597	597		22.8	0.020	0.014
City of Cumberland	27,767	27,767		167.8	4.800	4.660
Corriganville/Ellerslie	1,694	1,694		57.1	0.100	0.097
Cresaptown	1,863	1,863		123.7	0.250	0.230
LaVale	5,990	5,890	100	100.2	0.625	0.600
Mexico Farms	349	349		65.9	0.044	0.023
Oldtown Road	761	761		43.0	0.040	0.033
Pinto	2,471	2,471		52.6	0.150	0.130
Georges Creek	4,194	4,094	100	71.5	0.576	0.300
McCoole	718	718		86.5	0.080	0.062
Luke Mill - Town of Luke	150	150		45.3	0.007	0.007
Martins Mountain	35	35		97.1	0.003	0.003
Midlothian	262	262		99.2	0.100	0.026
Mount Savage	493	493		103.4	0.080	0.051
Borden/Zihlman/Morantown	490	490		50.6	0.050	0.025
Carlos/Shaft/Klondike	833	833		57.5	0.070	0.048
Consol	161	161		49.7	0.010	0.008
Eckhart/Clarysville	1,533	1,533		49.1	0.100	0.075
Frostburg	7,116	7,116		111.6	1.200	0.794
Grahamtown	644	644		46.7	0.060	0.030
Hoffman	37	37		40.5	0.005	0.002
Route 36/Vale Summit	241	241		75.1	0.040	0.018
Rawlings	201	201		149.3	0.100	0.030
Reckley Springs	80	80		100.0	0.008	0.008
Rocky Gap Mobile Home Park	47	47		95.7	0.005	0.005
Franklin/Brophytown	198	198		96.0	0.050	0.019
Westernport	2,661	2,661		143.2	0.950	0.381
Green Ridge Boys Camp	40	40		80.0	0.063	0.003
Little Orleans Campground	200	200		15.0	0.006	0.003
Meders Lane	51	51		588.2	0.100	0.030
Shades Lane	28	28		1071.4	0.100	0.030
Rawlings Heights	693	693		43.3	0.100	0.030
Rocky Gap	varies	varies		0.1	0.239	0.057
Industrial						
Barton Business Park						0.0036
Mexico Farms (NBIP)	1570	1570				0.4200
Luke Mill						25.0932

Table 3.6 Projected Water Supply Demands & Planned Capacity

	2025					
	Pop.			GPCD	Cap.	
Service Area	Total	Served	Unserved	gallons	demand	planned
Barrelville	56	56		231	0.013	0.013
Bob Candy	9	9		110	0.001	0.001
Broadwater Addition	28	28		107	0.003	0.003
Bowling Green	2,240	2,240		89	0.200	0.200
Bowmans Addition - was 375	600	600		40	0.024	0.024
City of Cumberland	27,917	27,917		172	4.800	4.800
Corriganville/Ellerslie	1,703	1,703		59	0.100	0.100
Cresaptown	1,873	1,873		133	0.250	0.250
LaVale	6,022	6,022		100	0.600	0.600
Mexico Farms	351	351		1254	0.440	0.440
Oldtown Road	765	765		523	0.400	0.400
Pinto	2,484	2,484		60	0.150	0.150
Georges Creek	4,217	4,217		137	0.576	0.576
McCoole	722	722		111	0.080	0.080
Luke Mill - Town of Luke	151	151		46	0.007	0.007
Martins Mountain	35	35		85	0.003	0.003
Midlothian	263	263		90	0.024	0.100
Mount Savage	496	496		161	0.080	0.080
Borden/Zihlman/Morantown	493	493		101	0.050	0.050
Carlos/Shaft/Klondike	837	837		84	0.070	0.070
Consol	162	162		62	0.010	0.010
Eckhart/Clarysville	1,541	1,541		65	0.100	0.100
Frostburg	7,154	7,154		168	1.200	1.200
Grahamtown	647	647		93	0.060	0.060
Hoffman	37	37		134	0.005	0.005
Route 36/Vale Summit	242	242		165	0.040	0.040
Rawlings	202	202		495	0.100	0.100
Reckley Springs	80	80		99	0.008	0.008
Rocky Gap Mobile Home Park	47	47		106	0.005	0.005
Franklin/Brophytown	199	199		251	0.050	0.050
Westernport	2,675	2,675		355	0.950	0.950
Green Ridge Boys Camp	40	40		1567	0.063	0.063
Little Orleans Campground	275	275		25	0.007	0.007
Meders Lane	51	51		1950	0.100	0.100
Shades Lane	28	28		3552	0.100	0.100
Rawlings Heights	697	697		144	0.100	0.100
Rocky Gap	varies	varies				
Industrial						
Barton Business Park						0.0036
Mexico Farms (NBIP)	1,580	1,580				0.4200
Luke Mill						30.0000

Table 3.6 Projected Water Supply Demands & Planned Capacity

	2035					
	Pop.			GPCD	Cap.	
Service Area	Total	Served	Unserved	gallons	demand	planned
Barrelville	57	57		228	0.013	0.013
Bob Candy	9	9		108	0.001	0.001
Broadwater Addition	28	28		105	0.003	0.003
Bowling Green	2,267	2,267		88	0.200	0.200
Bowmans Addition - was 375	607	607		40	0.024	0.024
City of Cumberland	28,252	28,252		170	4.800	4.800
Corriganville/Ellerslie	1,724	1,724		58	0.100	0.100
Cresaptown	1,896	1,896		132	0.250	0.250
LaVale	6,095	6,095		98	0.600	0.600
Mexico Farms	355	355		1239	0.440	0.440
Oldtown Road	774	774		517	0.400	0.400
Pinto	2,514	2,514		60	0.150	0.150
Georges Creek	4,267	4,267		135	0.576	0.576
McCoole	731	731		110	0.080	0.080
Luke Mill - Town of Luke	153	153		46	0.007	0.007
Martins Mountain	36	36		84	0.003	0.003
Midlothian	267	267		90	0.024	0.100
Mount Savage	502	502		159	0.080	0.080
Borden/Zihlman/Morantown	499	499		100	0.050	0.050
Carlos/Shaft/Klondike	848	848		83	0.070	0.070
Consol	164	164		61	0.010	0.010
Eckhart/Clarysville	1,560	1,560		64	0.100	0.100
Frostburg	7,240	7,240		138	1.000	1.000
Grahamtown	655	655		92	0.060	0.060
Hoffman	38	38		133	0.005	0.005
Route 36/Vale Summit	245	245		163	0.040	0.040
Rawlings	205	205		489	0.100	0.100
Reckley Springs	81	81		98	0.008	0.008
Rocky Gap Mobile Home Park	48	48		105	0.005	0.005
Franklin/Brophytown	201	201		248	0.050	0.050
Westernport	2,707	2,707		351	0.950	0.950
Green Ridge Boys Camp	41	41		1548	0.063	0.063
Little Orleans Campground	275	275		25		0.007
Meders Lane	52	52		1927	0.100	0.100
Shades Lane	28	28		3510	0.100	0.100
Rawlings Heights	705	705		142	0.100	0.100
Rocky Gap	varies	varies				
Industrial						
Barton Business Park						0.0036
Mexico Farms (NBIP)	1,590	1,590				0.4200
Luke Mill						30.0000

Table 3.6 Projected Water Supply Demands & Planned Capacity

	2045					
	Pop.			GPCD	Cap.	
Service Area	Total	Served	Unserved	gallons	demand	planned
Barrelville	58	58		224	0.013	0.013
Bob Candy	9	9		106	0.001	0.001
Broadwater Addition	29	29		103	0.003	0.003
Bowling Green	2,312	2,312		86	0.200	0.200
Bowmans Addition - was 375	620	620		40	0.025	0.025
City of Cumberland	28,817	28,817		167	4.800	4.800
Corriganville/Ellerslie	1,758	1,758		57	0.100	0.100
Cresaptown	1,933	1,933		129	0.250	0.250
LaVale	6,217	6,217		97	0.600	0.600
Mexico Farms	362	362		1215	0.440	0.440
Oldtown Road	790	790		506	0.400	0.400
Pinto	2,564	2,564		58	0.150	0.150
Georges Creek	4,353	4,353		132	0.576	0.576
McCoole	745	745		107	0.080	0.080
Luke Mill - Town of Luke	156	156		45	0.007	0.007
Martins Mountain	36	36		83	0.003	0.003
Midlothian	272	272		90	0.024	0.100
Mount Savage	512	512		156	0.080	0.080
Borden/Zihlman/Morantown	509	509		98	0.050	0.050
Carlos/Shaft/Klondike	864	864		81	0.070	0.070
Consol	167	167		60	0.010	0.010
Eckhart/Clarysville	1,591	1,591		63	0.100	0.100
Frostburg	7,385	7,385		135	1.000	1.000
Grahamtown	668	668		90	0.060	0.060
Hoffman	38	38		130	0.005	0.005
Route 36/Vale Summit	250	250		160	0.040	0.040
Rawlings	209	209		479	0.100	0.100
Reckley Springs	83	83		96	0.008	0.008
Rocky Gap Mobile Home Park	49	49		103	0.005	0.005
Franklin/Brophytown	205	205		243	0.050	0.050
Westernport	2,762	2,762		344	0.950	0.950
Green Ridge Boys Camp	42	42		1518	0.063	0.063
Little Orleans Campground	275	275		25	0.007	0.007
Meders Lane	53	53		1889	0.100	0.100
Shades Lane	29	29		3441	0.100	0.100
Rawlings Heights	719	719		139	0.100	0.100
Rocky Gap	varies	varies				
Industrial						
Barton Business Park						0.0036
Mexico Farms (NBIP)	1,600	1,600				0.4200
Luke Mill						30.0000

3.11 Immediate, 5, and 10-year Priorities for Water Development

Proj. No.	Responsible Agency	County Priority Assigned	x,y location	Project Name/Description	Project Status/ Const. Start	
					Immed. Priority	5-10 yr.
1	Allegany County	W-1		Bald Knob Water	X	
2	Allegany County	W-1		Bowling Green Water Improvements - Phase 1	X	
3	Allegany County	W-1		Rawlings Water Phase 3	X	
4	Allegany County	W-2		Bowling Green Water Improvements - Phase 2	X	
5	Allegany County	W-2		Creek Road Water	X	
6	Allegany County	W-2		McCoole Water Meter Replacement	X	
7	Allegany County	W-2		Pond Circle Water	X	
8	Allegany County	W-2		Potomac River Water Treatment Plant Study	X	
9	Allegany County	W-2		Prince Albert Water	X	
10	Allegany County	W-2		Route 36 Water	X	
11	Allegany County	W-2		Sunnyside Water	X	
12	Private	W-2		Cumberland Chase Subdivision (near Pinto)	X	
13	Dan's Mountain State Park	W-2		New Well Construction	X	
14	Dan's Mountain State Park	W-2		Water Treatment Building Rehabilitation	X	
15	Frostburg	W-2		16" Water Main Rehab & Valve Replacement	X	
16	Frostburg	W-2		Raw Water Supply Impoundment at Water Treatment Plant, Rehab and Improvements	X	
17	Lonaconing	W-2		New 3 MG Raw Water Tank to Replace Koontz Reservoir	X	
18	LaVale	W-2		Grant Street Water Tank Replacement Project	X	
19	Lonaconing	W-2		Maintenance Garage	X	
20	Lonaconing	W-2		Potomac Hollow Road Waterline Extension	X	
21	Lonaconing	W-2		Water Station Run Road Waterline Extension	X	
22	Midland	W-2		0.5 MGD Water Storage Tank	X	
23	Private	W-2		Maryland Water Service New Water Tank (near Pinto)	X	
24	Westernport	W-2		Tree Farm Tank, Pump Station, and Waterline	X	
25	Westernport	W-2		Water Distribution System Replacement - Phase III	X	
26	Westernport	W-2		Water Line Project to Town of Luke and Verso Mill	X	
27	Allegany County	W-3		Mount Savage Regional Water System Extension	X	
28	Allegany County	W-3		Vale Summit Water Storage Tank	X	
29	Cumberland	W-3		Citywide System Rehab & Extension	X	
30	Cumberland	W-3	39°44'49"N/78°40'32"W	Finish Water Storage Tank (Repainting/Repair)	X	
31	Cumberland	W-3	39°40'10"N/78°44'42"W	McNamee Area Water System & Tank Upgrade	X	
32	Cumberland	W-3	39°38'32"N/78°45'48"W	Route 51 Waterline Replacement	X	
33	Cumberland	W-3	39°44'49"N/78°40'32"W	Source Water Protection Projects	X	
34	Cumberland	W-3	39°44'49"N/78°40'32"W	Water Filtration Plant Rehabilitation/Improvements	X	
35	Cumberland	W-3		Water System Study (Citywide)	X	
36	Cumberland	W-3		Willowbrook Road Waterline Replacement and Rehabilitation	X	
37	Frostburg	W-3		WTP Main Replacement	X	
38	Frostburg	W-3		WTP Raw Storage Tank Construction	X	
39	Georges Creek	W-3		Upper Charlestown Road Line and Tank Project	X	

Proj. No.	Responsible Agency	County Priority Assigned	x,y location	Project Name/Description	Project Status/ Const. Start: Immed. Priority	Project Status/ Const. Start: 5-10 yr.
40	LaVale	W-3		Replace Grant Street Water Storage Tank	X	
41	Private	W-3		Morgan Farm Subdivision (near Frostburg)	X	
42	Private	W-3		Sand Spring Subdivision, Phase II (Frostburg)	X	
43	Allegany County	W-4		Bedford Road Water Project		X
44	Allegany County	W-4		McCoole Tank Mixing		X
45	Allegany County	W-4		Potomac River Water Treatment Plant		X
46	Private	W-4		Braddock Estates, Phase III & IV (Frostburg)		X
47	Cumberland	W-4		36" Main Upgrade	X	
48	Cumberland	W-4		Asbestos/Concrete Pipe Replacement	X	
49	Cumberland	W-4		Citywide System Rehab & Extension		X
50	Cumberland	W-4	39°37'58"N/78°45'35"W	Evitts Creek Pump Station - Pump Replacement/Rehabilitation	X	
51	Cumberland	W-4	39°44'49"N/78°40'32"W	Filtration Plant Dam Bar Screens Replacement/Upgrade	X	
52	Cumberland	W-4	39°44'49"N/78°40'32"W	Filtration Plant Raw Water Intake Replacement	X	
53	Cumberland	W-4		Meter Improvements/Change-out for Water System	X	
54	Cumberland	W-4	39°39'45"N/78°46'18"W	North End System & Pipe Upgrades	X	
55	Cumberland	W-4	39°38'41"N/78°47'13"W	Ridgedale Pump Station - Pump Replacement/Rehabilitation	X	
56	Cumberland	W-4	39°44'49"N/78°40'32"W	Source Water Protection Projects		X
57	Cumberland	W-4	39°44'49"N/78°40'32"W	Water Filtration Plant Rehabilitation/Improvements		X
58	Cumberland	W-4	39°38'43"N/78°44'44"W	West End System & Pipe Upgrades	X	
59	Cumberland	W-4		Water Valves/Water Line Rehabilitations (Citywide)	X	
60	Private	W-4		Exit 33, I-68 at Braddock Road (Frostburg)		X
61	Private	W-4		Exit 34, I-68 at Route 36 (Frostburg)		X
62	Frostburg	W-4		Distribution System for Braddock Estates to Welsh Hill to Cherry Lane		X
63	Private	W-4		Little Orleans Campground Service Area Expansion		X
64	Private	W-4		Prichard Farms Subdivision (near Frostburg)		X
65	Allegany County	W-5		Baltimore Pike Water Service		X
66	Allegany County	W-5		Flintstone Water Supply and Distribution		X
67	Allegany County	W-5		Westernport Water Line		X
68	Private	W-5		Cumberland Chase Subdivision (later Phases)		X
69	Cumberland	W-5		Citywide System Rehab & Extension		X
70	Cumberland	W-5		Disinfection Byproduct System Upgrade		X
71	Cumberland	W-5	39°44'49"N/78°40'32"W	Filtration Plant Standby Backwash Pump		X
72	Cumberland	W-5	39°38'55"N/78°44'53"W	Fort Hill Reservoir Replacement/Replacement		X
73	Cumberland	W-5	39°39'47"N/78°47'22"W	Haystack Tank Replacement		X
74	Cumberland	W-5	39°38'43"N/78°48'18"W	Seneca Area Supply Upgrades/Replacement		X
75	Cumberland	W-5	39°44'49"N/78°40'32"W	Source Water Protection Projects		X
76	Cumberland	W-5	39°37'58"N/78°45'35"W	South End System & Pipe Upgrades		X
77	Cumberland	W-5	39°44'49"N/78°40'32"W	Water Filtration Plant Rehabilitation/Improvements		X
78	Cumberland	W-5	39°18'39"N/78°44'43"W	Willowbrook Road Corridor Water System Expansion		X
79	Cumberland	W-5		"Crosstown 24" Mains Rehabilitation and Replacement		X
80	Private	W-5		Harwood: Vale Summit Water Service		X
81	Frostburg	W-5		Secondary Hydro Package Plant at Water Treatment Plant		X
82	Frostburg	W-5		Water Distribution System Hydraulic Loop Extension, Project C2 & C3		X
83	Frostburg	W-5		Rapid Containment & Cleanup Procedures		X

Chapter 4 Sewerage Systems

Allegany County is proud to serve approximately 87% of its residents with public sewer service. The sewer service areas are shown in Appendix 4.01: Sewer Service Areas. A foldout map (24" x 36") is also included in the rear of print versions of this document. If a hard copy of the 24" x 36" Appendix 4-.01 is desired, please contact the Allegany County Department of Public Works.

The sewerage systems are operated by businesses, private organizations and various public agencies, including the Allegany County Department of Public Works. There are both community and multi-use sewerage systems in Allegany County. Also, it is to be noted the service areas that are operated by Allegany County Department of Public Works are synonymous with the Allegany County Sanitary Districts.

Information on current billing rates and recent demand/usage is available in the Appendices of this report and will updated, as appropriate, during annual amendment cycles.

On October 15, 1998, a Consent Judgment (Case No. C-98-16009-S) was put into effect for the Allegany County Commissioners to address issues at the George's Creek Wastewater Treatment Plant and the Celanese Wastewater Treatment Plant and their respective sanitary sewer collection systems. This judgment, among other requirements, outlined steps for commissioning and execution of Sanitary Sewer Evaluation Study(ies) (SSES) for the subject-referenced systems. Timelines were determined to bring each agency into compliance with the terms of the Consent Judgment.

On December 14, 2001, a Consent Judgment (Consolidated Case 01-C-00-18342L) was put into effect for the City of Frostburg, Allegany County, LaVale, and the City of Cumberland as a result of combined sewer overflows (CSO) and sanitary sewer overflows (SSO) throughout Allegany County and its largest cities/towns. This judgment, among other requirements, outlined steps for development and implementation of Long Term Control Plans (LTCPs) and progress reporting to the Maryland Department of the Environment. Timelines were determined to bring each agency into compliance with terms of the Consent Judgment.

On October 26, 2006, a Complaint and Consent Order (CO-07-0395) was put into effect between the Maryland Department of the Environment and the Allegany County Sanitary District/Allegany County Commissioners to undertake a study to make repairs to SSO in the Bedford Road and Jennings Run/Wills Creek Sanitary Districts. A timeline was determined to meet the requirements of the Consent Order.

For more information on each agency's response to the requirements of the applicable Consent Order/Judgment, please refer to the appropriate section within this chapter or contact the agency.

4.01 Community Sewerage Systems

There are numerous community sewerage systems in Allegany County. Each system is served by one wastewater treatment facility. The systems are publicly-, privately-, or business-owned and treat both sewage and liquid industrial wastes. Each system is comprised of one or more service areas, which are defined by disparate geography, ownership, or both. These service areas are described in detail in the following sub-sections. Additional details regarding infrastructure assets can be found in tabular form in Sections 4.03 through 4.10.

The topography of Allegany County provides for a unique arrangement of sewerage systems. In some of the systems, wastewater may flow as many as 18 miles before entering its respective system's wastewater treatment plant. All effluent from the WWTP's eventually flows into the North Branch of the Potomac River, a tributary of the Chesapeake Bay. For example, wastewater in the Frostburg area travels through the Braddock Run service area to LaVale and then follows the LaVale system to the City of Cumberland system to be treated at the Cumberland Wastewater Treatment Plant (approximately 15 miles away). Sewage from areas located south of Frostburg gravity flows through the Georges Creek Valley for treatment at the Georges Creek WWTP. All sewerage systems in Allegany County are shown in Appendix 4.01.

At this time, Allegany County Department of Public Works staff are evaluating the feasibility of constructing a wastewater treatment plant in the Locust Grove area northwest of Cumberland at the confluence of Wills Creek and Braddock Run. Flows received from the City of Frostburg, LaVale, the Braddock Run Sanitary District, and the Jennings Run/Wills Creek Sanitary District would be treated at this facility and no longer be transported to the City of Cumberland's WWTP. For the time being, County staff wishes to make known that this project is being evaluated internally for its feasibility. Further amendments to the Allegany County Water & Sewerage Plan will be made at such time if/when more formal details become available.

A. Cumberland System

The Cumberland sewer system is served by the Cumberland Wastewater Treatment Plant (Cumberland WWTP), which is owned and operated by the City of Cumberland. The Cumberland WWTP is designed to treat an average of 15 MGD, and a peak flow of 30 MGD. The plant currently is designed for Biological Nutrient Removal (BNR) and Enhanced Nutrient Removal (ENR).

The City of Cumberland is planning to construct WWTP CSO storage facilities/tanks to negate the effect of a combined sewer system in storm events. The facility will hold excess stormwater until treatment capacity is available at the Cumberland WWTP, thereby significantly reducing the quantity of untreated wastewater entering the North Branch Potomac River. The current location of discharge for the Cumberland WWTP is the North Branch of the Potomac, as shown in Appendix 4.02. There are no new proposed points of discharge.

A pelletizer was permitted and started production of Class A pelletized biosolids in October 2010. The disposal/distribution will be conducted by New England Fertilizer Company (NEFCO). Bulk distribution is

used for the biosolids for purposes such as land application, fertilizer blenders, and/or energy/alternative fuel.

In total, the Cumberland WWTP serves approximately 45,000 residents in Maryland with public sewer service. In addition to the residents of Allegany County, the Cumberland WWTP also serves the communities of Ridgeley, Carpendale, and Wiley Ford, West Virginia and Londonderry Township in Pennsylvania.

1. *City of Cumberland Service Area*

The City of Cumberland serves all of its residents with public sewer (approximately 20,000 people) in addition to a few residences and the Finan Center located outside of the municipal boundary. The sewer service area is shown in Appendix 4.02. The system is a combined sewer and is subject to the 2001 Consent Judgment issued by the Maryland Department of the Environment (MDE). The City of Cumberland plans to expand capacity of pipes and build storage capacity for stormwater events, rather than separate the stormwater and sewer systems. This has been determined to be a cost effective solution for the City.

Due to the age of the City's infrastructure, many of the sewer lines are deteriorating and are in need of replacement. Several pipe replacements and upgrades are planned for the next ten years. These improvements will be funded through the City of Cumberland, the Bay Restoration Fund, the American Recovery and Reinvestment Act, MDE grants and loans, and EPA or other federal resources when available. Project specific details are available in Table 4.5: Immediate, 5, and 10 Year Priorities for Sewerage Development.

2. *LaVale Service Area*

The LaVale sewer service area serves approximately 5,500 people and is shown in Appendix 4.03. The system is operated by the LaVale Sanitary Commission. The LaVale sewer service area conveys wastewater not only from customers within the service area, but also from the Braddock Run, Jennings Run, and Frostburg service areas. Therefore, the service area has a design average flow of 2.5 MGD and design peak flow of 8.8 MGD. Operation and maintenance costs are approximately $1,000,000. The system is a combined system and is also under the 2001 Consent Judgment issued by MDE. The CSO outfalls are located on Braddock Run.

Main interceptor lines have been completely rehabilitated. Collection system lines are currently being addressed. The LaVale Sanitary Commission will use MDE/USDA grants and loans to finance improvements to the transmission infrastructure. Specific details are available in Table 4.5: Immediate, 5, and 10 Year Priorities for Sewerage Development.

3. *Frostburg Service Area*

The Frostburg sewer service area is operated by the City of Frostburg and serves a population of approximately 9,000, which includes Frostburg State University. The service area is mapped in Appendix 4.04. The service area has a design average (dry weather) flow of 1 MGD. The operation and maintenance costs for the collection system are $1,528,000. In general, the condition of the transmission pipes is fair.

The service area is a combined system and the City of Frostburg is currently under the 2001 Consent Judgment issued by MDE. The City of Frostburg has started the process of separating the stormwater from sanitary sewer and continues to do so. An additional proposed improvement for the Frostburg Sewer Service Area is to install sewer flow meters in this City/County collection system to aid in the reduction of inflow and infiltration. These meters will help assess the progress of the City's/County's Combined Sewer Overflow (CSO) Elimination Plans and aid in the planning and design of future CSO Elimination projects.

The City is currently in the process of establishing a GIS database of its critical water infrastructure assets. The GIS project will assist the City with locating its infrastructure, asset management, and criticality assessments. The City seeks to expand the project to include all City maintained sewer infrastructure as well.

The service area will be extended in Spring 2016 to include both a 1-inch water line, a 3-inch force main sewer line. The water line will cross Hoffman Hollow Road adjacent to the Hoffman Field restroom building and connect to the County's six-inch water main. The sewer line (to include grinder pump) will originate at the building and run east from the Hoffman Field building along Hoffman Hollow Road approximately 650 ft and connect to the sewer line that services 11201 Hoffman Hollow Road.

4. *Jennings Run/Wills Creek Service Area*

The Jennings Run/Wills Creek sewer service area serves approximately 1,230 customers and is operated by the Allegany County Department of Public Works - Utilities Division. The Jennings Run section of the service area is located along Jennings Run, which roughly parallels MD Route 36 from Mount Savage to Corriganville where it confluences with Wills Creek. The Wills Creek section of the service area is located along Wills Creek, which roughly parallels MD Route 35 and runs from Ellerslie south towards Cumberland. As seen in Appendix 4.05, the service area terminates where it meets the Cumberland service area. Wastewater is treated by the City of Cumberland's Wastewater Treatment Plant in the manner described in Section 4.01.A.

The Jennings Run/Wills Creek service area is under the 2006 Consent Order issued by MDE. Since the previous adoption of the Allegany County Water & Sewerage Plan, numerous rehabilitation projects have been completed. A complete replacement of the Corriganville Pumping Station was completed. Additionally, Jennings Run Sewer Rehabilitation – Phase I (Mt. Savage) and Phase II (Barrelville/Corriganville) were completed with funds from the United States Department of Agriculture (USDA) and Maryland Department of the Environment (MDE). Further sewer rehabilitation was completed in Mount Savage during the Mount Savage Water Distribution system project. Future projects are planned to continue to reduce inflow and infiltration in the service area. Please refer to Sections 4.03 and 4.09 for more information.

5. *Bedford Road Service Area*

The Bedford Road sewer service area serves approximately 1,300 customers and is operated by the Allegany County Department of Public Works - Utilities Division. The service area is located north of Cumberland along Bedford Road (Old U.S. Route 220). There are two smaller, additional portions of this service area located to the west and south of the larger Bedford Road sewer service area as seen in Appendix 4.06. Wastewater is treated by the City of Cumberland in the manner described in Section 4.01.A.

The Bedford Road service area is under the 2006 Consent Order issued by MDE. Since the previous Plan adoption, several rehabilitation projects have been completed. A sanitary sewer overflow (SSO) was removed at the Ioka Pumping Station as result of the Bedford Road Sewer Rehab – Phase I: Ioka Low-Pressure Grinder System (LPGS) project. Phase II rehabilitated the sewer line on Shades Lane. Phase III was a total sewer system replacement for the Highland Estates area subdivision. Phase IV will include replacement and rehabilitation of various sections of the two Mill Run sub-basins and is set for completion in late 2015.

Future projects are planned to continue to reduce inflow and infiltration in the service area. Please refer to Sections 4.03 and 4.09 for more information.

6. Oldtown Road Service Area

The Oldtown Road sewer service area serves approximately 300 customers and is operated by the Allegany County Department of Public Works - Utilities Division. The service area is located southeast of Cumberland along MD Route 51, as delineated in Appendix 4.07. Wastewater is treated by the City of Cumberland in the manner described in Section 4.01.A.

Transmission mains in the service area are generally in good condition. No improvement projects are currently planned for this service area. Any proposed projects would likely seek funding assistance through grants and loans from United States Department of Agriculture – Rural Development as well as Maryland Department of the Environment.

7. Mexico Farms Service Area

The Mexico Farms sewer service area serves approximately 150 residential customers in addition to the businesses and Federal Correctional Institution located within the North Branch Industrial Park. The service area is located southeast of Cumberland along Mexico Farms Road (refer to Appendix 4.08) and is operated by the Allegany County Department of Public Works - Utilities Division. Wastewater is treated by the City of Cumberland in the manner described in Section 4.01.A.

Transmission mains in the service area are generally in good condition. An upgrade is planned for the North Branch Industrial Park Pumping Station. This project will likely seek funding assistance through grants and loans from United States Department of Agriculture – Rural Development as well as Maryland Department of the Environment.

8. Braddock Run Service Area

The Braddock Run sewer service area serves approximately 1,000 customers and is operated by the Allegany County Department of Public Works - Utilities Division. As seen in Appendix 4.09, the service

area is located east of Frostburg and follows MD Route 40. There are additional portions of the service area south of Frostburg (Grahamtown) and west of Frostburg (Consol) which are eventually pumped to the larger Braddock Run service area. Wastewater is treated by the City of Cumberland in the manner described in Section 4.01.A.

The Braddock Run service area is under the 2001 Consent Judgment issued by MDE. Several projects have been completed in the District since the 2010 Allegany County Water & Sewerage Plan was adopted. The Braddock Run Interceptor project rehabilitated the sewer from the area of Piney Mountain Road in Eckhart down to the interceptor's connection with the LaVale Sanitary District in Red Hill. Subsequent projects included Braddock Run Sewer Rehabilitation – Phase I: Eckhart, Phase II: Collector Sewer Repairs, and Phase III: Grahamtown/Sand Spring Run Interceptor Repairs. Phase IV includes improvements currently underway at the Wrights Crossing Pumping Station in Grahamtown. Future projects are planned to continue to reduce inflow and infiltration in the service area. These projects will install new cleanouts, rehabilitate additional sections of sewer via cured-in-place-pipe lining, and remove major sources of inflow and infiltration. Please refer to Sections 4.3 and 4.9 for more information.

B. North Branch System

The North Branch sewer system is served by the North Branch Wastewater Treatment Plant (WWTP), which is owned and operated by the Allegany County Department of Public Works - Utilities Division. The North Branch WWTP is designed to treat an average of 2.86 million gallons per day (MGD). The plant is currently permitted at 2.0 MGD. This will ultimately increase to the design flow of 2.86 MGD. Also, the 2.0 MGD permit flow provides the Allegany County Department of Public Works - Utilities Division with the option of receiving additional flows from potential future construction at the Cumberland Chase development. The Rawlings Sewer System is currently being studied by the Allegany County Department of Public Works - Utilities Division for potential system improvements in the future. Flow from Rawlings could be received at the North Branch WWTP and the increase in plant capacity could accommodate the improvements.

Currently, the North Branch WWTP is designed for Biological Nutrient Removal and Enhanced Nutrient Removal (BNR/ENR). The plant's only planned improvement project is for a clarifier replacement. A new concrete clarifier is needed to replace a poorly-performing 20-year-old steel clarifier.

The current location of discharge for the North Branch WWTP is the Lower North Branch of the Potomac River. There are no new proposed points of discharge. Sludge disposal is accomplished through a process of aerobic digestion, dewatering by belt filter press, and transport to the Mountainview Landfill south of Frostburg on Maryland Route 36. The North Branch WWTP serves approximately 2,000 customers with public sewer service. Contributing service areas include Bowling Green, Cresaptown, and LaVale-Winchester Road. The North Branch WWTP also receives wastewater from the North Branch Correctional Institution and the Western Correctional Institution through a direct line from the facilities to the plant.

1. *Bowling Green Service Area*

The Bowling Green sewer service area serves approximately 930 customers and is operated by the Allegany County Department of Public Works - Utilities Division. The service area is located southwest of Cumberland along U.S. Route 220, as mapped in Appendix 4.10. Wastewater is treated by the Allegany County Department of Public Works - Utilities Division at the North Branch Wastewater Treatment Plant in the manner described in Section 4.01.B.

Transmission mains in the service area are generally in poor condition. This collection system is under the 1998 Consent Judgment with MDE to reduce system SSO. Improvements to the sewer system were recently completed along with water improvements as part of the Phase I Improvements to the Bowling Green Water System. Future projects are planned to continue to reduce inflow and infiltration in the service area. Please refer to Sections 4.03 and 4.09 for more information.

2. Cresaptown Service Area

The Cresaptown sewer service area serves approximately 860 customers and is operated by the Allegany County Department of Public Works - Utilities Division. The service area is located in Cresaptown at the intersection of Winchester Road and McMullen Highway (U.S. Route 220). Please refer to Appendix 4.11 for a service area map. Wastewater is treated by the Allegany County Department of Public Works - Utilities Division at the North Branch Wastewater Treatment Plant in the manner described in Section 4.01.B.

Transmission mains in the service area are generally in poor condition. This collection system is under the 1998 Consent Judgment with MDE to reduce system SSO. Future projects are planned to continue to reduce inflow and infiltration in the service area. Please refer to Sections 4.03 and 4.09 for more information.

3. LaVale-Winchester Road Service Area

The LaVale-Winchester Road Service Area is operated by the LaVale Sanitary Commission. It serves the portion of the LaVale community along Winchester Road, south of the Vocke Road intersection, as seen in Appendix 4.12. There are approximately 330 customers within the service area. The average flow through the system is 150,000 gpd, which is gravity fed to Cresaptown where it enters the Allegany County system and is conveyed to the North Branch WWTP.

The condition of the transmission pipes is poor. The LaVale Sanitary Commission proposes funding any improvement projects from MDE and USDA grants and loans.

C. Upper Potomac System

The Upper Potomac System is located in southwest Allegany County. The wastewater treatment plant that serves the system is operated by the Upper Potomac River Commission. The system serves the Verso Paper Mill, in addition to the Towns of Luke, Westernport, and Franklin/Brophytown, Maryland. The plant also receives wastewater from Piedmont, West Virginia. The wastewater from the paper mill constitutes 20 MGD of the wastewater treated daily at the Upper Potomac River Commission WWTP; an additional 0.5 to 1.5 MGD of wastewater is from the towns mentioned above. The WWTP has a design average flow of 21 MGD, and a design peak flow of 30 MGD. The WWTP uses the activated sludge process for treatment and the plant is in good condition. The plant does not include nutrient removal. The WWTP outfall is the North

Branch Potomac River. The sewage sludge is used for surface mine land reclamation. Verso Corporation funds the majority of upgrades to the plant; the Upper Potomac River Commission has an annual budget of $4.5 million to operate the WWTP.

The planned capacity is expected to remain the same through 2030. At this time, there are no major issues with the WWTP operated by the Upper Potomac River Commission. This may change as the Chesapeake Bay TMDL is developed. The pending outcome may impact future permits at the Upper Potomac wastewater treatment facility.

1. Franklin/Brophytown Service Area

The Franklin/Brophytown sewer service area serves approximately 80 customers and is operated by the Allegany County Department of Public Works - Utilities Division. The service area is located just north of the town of Westernport along MD Route 36 (Appendix 4.13). Wastewater is treated by the Upper Potomac River Commission Wastewater Treatment Plant in the same manner described in Section 4.01.C.

Transmission mains in the service area are generally in good condition. No improvement projects are currently planned for this service area. Any proposed projects would likely seek funding assistance through grants and loans from United States Department of Agriculture – Rural Development as well as Maryland Department of the Environment.

2. Westernport Service Area

The Westernport Service Area includes the Town of Westernport and the Town of Luke, as shown in Appendix 4.14. Westernport's collection system serves a population of approximately 2,600 people, and is maintained by the Town of Westernport. It is a combined system and the condition of the transmission pipes is poor. The Town of Westernport is currently under a consent order with MDE to reduce CSO and is currently replacing portions of the trunk line.

D. Georges Creek System and Service Area

The Georges Creek Sewer System is located in the western part of Allegany County along MD Route 36 (Appendix 4.15). The wastewater treatment plant serving the system is operated by the Allegany County Department of Public Works - Utilities Division. The system serves the small communities of Klondike, Midlothian, Shaft, Carlos, Midland, Lonaconing, and Barton. Receiving wastewater from these communities is the Georges Creek Wastewater Treatment Plant (WWTP). The Georges Creek WWTP is designed to treat an average of 0.70 million gallons per day (MGD). In 2010, the plant's permitted and design capacity was increased from 0.60 MGD to 0.70 MGD. The increase came as a result of the State of Maryland requiring a $28.4 million dollar upgrade for Biological Nutrient Removal and Enhanced Nutrient Removal (BNR/ENR) in an effort to reduce total phosphorus loading and total nitrogen loading into waters that eventually discharge into the Chesapeake Bay.

Currently, the Georges Creek WWTP is designed for Biological Nutrient Removal and Enhanced Nutrient Removal (BNR/ENR). There are no planned improvement projects.

The current location of discharge for the Georges Creek WWTP is Georges Creek, which is adjacent to the WWTP. There are no new proposed points of discharge. Sludge disposal is accomplished through a process of aerobic digestion and dewatering by belt filter press, and transport to the Mountainview Landfill south of Frostburg along Route 36. The only contributing service area is the Georges Creek service area.

The Georges Creek sewer service area serves approximately 2,200 customers and is operated by the Allegany County Department of Public Works - Utilities Division.

Transmission mains in the service area are generally in fair condition. This system is under the 1998 Consent Judgment with MDE to eliminate sanitary sewer overflows (SSO). Future projects are planned to continue to reduce inflow and infiltration in the service area. Please refer to Sections 4.3 and 4.9 for more information.

E. McCoole System and Service Area

The McCoole System is located is southwestern Allegany County, across the North Branch Potomac River from Keyser, West Virginia, and is shown in Appendix 4.16. The McCoole sewer service area serves approximately 225 customers in Allegany County and is operated by the Allegany County Department of Public Works - Utilities Division.

The wastewater from the McCoole system is pumped to the Keyser WWTP for treatment. Transmission mains in the service area are generally in good condition. The Keyser WWTP is operated by the City of Keyser and is designed for an average flow of 2.1 MGD and a peak flow of 8.0 MGD. The collection system used by the City of Keyser is a combined system, and it serves a total 2,017 people. The sewage treated per day varies from 1.2 to 2.0 MGD; the treatment used is a Class 2 Lagoon System. The current demand for the system is 2.4 MGD. The outfall is located in the North Branch Potomac River. The current treatment plant needs to be upgraded to meet the Chesapeake Bay Water Quality Standards. Funding is being sought from the Maryland Department of the Environment to upgrade the existing WWTP to a sequencing batch reactor. A project is in the final planning stages and more details can be found in Table 4.5: Immediate, 5, and 10 Year Priorities for Sewerage Development.

A problem currently facing the Keyser WWTP is that the lagoons are exceeding life expectancy. To correct this issue, sludge will have to be removed from the lagoons. A contractor that specializes in sludge removal will have to be hired.

There is another wastewater treatment plant in the vicinity of the McCoole service area that is currently not in operation. However, permitting has been kept current at the plant should future development in the area of the Tri-Towns Plaza warrant its use. The Tri-Towns Wastewater Treatment Plant serves the now-vacant Tri-Towns Industrial Plaza, located along MD Route 135 between Westernport and McCoole. This plant treats by extended aeration and its discharge point is the North Branch of the Potomac River. Its design capacity is 0.003 million gallons per day (MGD).

F. Rawlings System and Service Area

The Rawlings system serves the community of Rawlings, along US Route 220, south of Cresaptown (Appendix 4.17). The system is privately owned by the Rawlings Improvement Association and serves approximately 300 customers. The Rawlings system uses separated collection, and treats to a primary level using a lagoon. The design average flow for the system is 0.143 MGD. The Rawlings Improvement Association WWTP is operated by Miller Environmental Inc., and the operation costs for the plant are approximately $72,000 per year. The outfall of the WWTP discharges into the North Branch Potomac River. There is no additional capacity currently needed, because building in the Rawlings area is restricted due to a moratorium from MDE. No new water taps can be made, therefore additional sewer taps will not be needed until the consent order is resolved.

The Rawlings Improvement Association requested the Allegany County Department of Public Works – Utilities Division take over ownership, operation, and maintenance of the system. Improvements to the system are needed to bring it into compliance with County standards.
Recently, a Preliminary Engineering Report (PER) and Environmental Report (ER) was completed to determine the best alternative for improvements to the system. A phased replacement approach is currently being developed. Due to the poor condition of the existing Rawlings Improvement Association WWTP, only temporary (if any) rehabilitation is recommended. Instead, wastewater will be sent to the Allegany County Department of Public Works – Utilities Division-operated Barton Business Park WWTP.

The proposed improvements will be a multi-phase, multi-year effort that will move forward based on available funding. Due to its proximity between the Rawlings service area and the Barton Business Park WWTP, the first proposed phase will rehabilitate the Biers Lane Sewer service area. Future phases will replace the sewer system in Rawlings and construct upgrades at the Barton Business Park WWTP.

G. Barton Business Park System

The Barton Business Park System is located southwest of Cumberland along U.S. Route 220. The wastewater treatment plant serving the system is the Barton Business Park WWTP and is operated by the Allegany County Department of Public Works - Utilities Division. The Barton Business Park WWTP is designed and permitted to treat an average of 0.05 million gallons per day (MGD).

Currently, the Barton Business Park WWTP treats wastewater with a Sequencing Batch Reactor (SBR). Improvements to the Biers Lane service area and the addition of the Rawlings service area (noted in the previous section) will cause an increase in wastewater volume treated by the plant and necessitate improvements.

The current location of discharge for the Barton Business Park WWTP is the North Branch of the Potomac River. There are no new proposed points of discharge. Sludge disposal is accomplished through a process of aerobic digestion, transport to the North Branch WWTP for dewatering by belt filter press, and transport to the Mountainview Landfill south of Frostburg along Route 36. The WWTP serves 34 total customers with public sewer service. Contributing service areas are the Barton Business Park service area and the Biers Lane service area. As noted previously, the Rawlings service area will eventually be directed to the WWTP and add approximately 300 customers to the Barton Business Park System.

1. *Barton Business Park Service Area*

The Barton Business Park sewer service area serves 2 industrial customers and is operated by the Allegany County Department of Public Works - Utilities Division. The service area is located immediately within the Barton Business Park along U.S. Route 220 as shown in Appendix 4.18. Wastewater is treated at the Barton Business Park WWTP in the manner described in Section 4.01.G.

Transmission mains in the service area are generally in good condition. No improvement projects are currently planned for this service area.

There is another wastewater treatment plant in the vicinity of the Barton Business Park which was abandoned in 2009. Known as the Biers Lane WWTP, it previously served the Biers Lane community as described the next section.

2. *Biers Lane Service Area*

The Biers Lane sewer service area serves 32 residential customers and is operated by the Allegany County Department of Public Works - Utilities Division. The service area is located just southwest of the Barton Business Park along U.S. Route 220 (Appendix 4.19). Wastewater is treated at the Barton Business Park Wastewater Treatment Plant in the manner described in Section 4.01.G.

The previous wastewater treatment plant for the Biers Lane Service Area has been removed. The Barton Business Park WWTP treats Biers Lane wastewater flows.

Transmission mains in the service area are generally in fair condition. A project is currently under design to replace the existing sewer collection system. This is the first phase of a larger multi-phase, multi-year effort to replace the Rawlings Sewer System and bring all wastewater flow to the Barton Business Park WWTP. Refer to the Rawlings System and Service Area Section (4.01.F) for more information.

H. Pinto System and Service Area

The Pinto system serves the communities of Bel Air, Pinto, and Glen Oaks (Appendix 4.20). The system is privately owned and is operated by Maryland Water Service. The service area is served by a separated collection system and is treated by an aerated lagoon with chlorination and dechlorination processes. The design average flow for the system is 0.450 MGD.

The Pinto system serves a population of approximately 2,450. The collection system pipes are in good condition and the WWTP is in good condition. The point of discharge from the WWTP is the North Branch Potomac River. Improvements will be funded through bank financing.

I. Oldtown System and Service Area

The Oldtown sewer system is located in the southeastern part of Allegany County along MD Route 51 in the community of Oldtown, MD (Appendix 4.21). The Oldtown WWTP wastewater treatment plant serves the system and is operated by the Allegany County Department of Public Works - Utilities Division. The system serves approximately 50 customers in the Oldtown area. The Oldtown WWTP is designed to treat

an average of 0.040 million gallons per day (MGD). The only contributing service area is the Oldtown service area.

Currently, the Oldtown WWTP treats wastewater by Extended Aeration. The current location of discharge for the Oldtown WWTP is Mill Run. There are no new proposed points of discharge. Sludge disposal is accomplished through a process of aerobic digestion, transport to the North Branch WWTP for dewatering by belt filter press, and transport to the Mountainview Landfill south of Frostburg along Route 36. The Oldtown wastewater treatment plant has reached the end of its designed life expectancy. One solution is to install a new treatment facility identical to the current facility. The current facility could then undergo rehabilitation and be placed back online as a backup for periods of heavy flow and to allow for improved reliability and redundancy. As maintenance to the existing plant is difficult, this project should be prioritized.

J. Flintstone System and Service Area

The Flintstone Sewer System is located in the northeastern part of Allegany County along Interstate 68 in the community of Flintstone. The Flintstone WWTP serves approximately 80 customers and is operated by the Allegany County Department of Public Works - Utilities Division and serves the community of Flintstone. The Flintstone WWTP is designed to treat an average of 0.045 million gallons per day (MGD). The only contributing service area is the Flintstone service area as seen in Appendix 4.22.

Currently, the Flintstone WWTP treats wastewater by Extended Aeration. The current location of discharge for the Flintstone WWTP is Town Creek. There are no new proposed points of discharge. Sludge disposal is accomplished through a process of aerobic digestion, transport to the North Branch WWTP for dewatering by belt filter press, and transport to the Mountainview Landfill south of Frostburg along Route 36. The Flintstone wastewater treatment plant has reached the end of its designed life expectancy. One solution is to install a new treatment facility identical to the current facility. The current facility could then undergo rehabilitation and be placed back online as a backup for periods of heavy flow and to allow for improved reliability and redundancy. As maintenance to the existing plant is difficult, this project should be prioritized.

MDE currently has a building moratorium on the Flintstone System. An inflow and infiltration reduction project was recently completed. Eleven manholes were rehabilitated and five manholes received additional sections to bring their rim elevation above Flintstone Creek. Six open cut point repairs were completed and 1,339 feet of sewer line were rehabilitated via cured-in-place pipe (CIPP) lining. Finally, thirty-three repairs were made to private-side building sewers. The district has seen decreased wastewater flows since the completion of the project. Efforts will continue to reduce inflow and infiltration.

4.02 Multi-use Sewerage Systems

There are four multi-use sewerage systems in Allegany County. COMAR 26.03.01.01 defines a multi-use sewerage system as “any single system serving a single lot, whether owned operated by an individual or group of individuals under private or collective ownership and serving a group of individuals for the

collection and disposal of sewage or industrial wastes of a liquid nature, including various devices for the treatment of sewage and having a treatment capacity in excess of 5,000 GPD."

K. Rocky Gap System and Service Area

The Rocky Gap System serves the Rocky Gap Casino Resort and Rocky Gap State Park (Appendix 4.23). In 2007, the attendance to the Park was 820,000 persons. Maryland Environmental Service (MES) operates the wastewater collection and treatment plant. In 2007, the average sewage flows were 43,356 gpd and the peak flow was 200,000 gpd. The WWTP is rated for a design flow of 120,000 gpd, and the plant includes primary treatment, biological treatment (package plant), and filtration. Rocky Gap Run receives the effluent from the WWTP.

MES is planning to upgrade and expand the existing wastewater treatment facility for an average design flow of 150,000 gpd. The proposed treatment process will employ Membrane Bio Reactor (MBR) technology. The effluent discharge location into Rocky Gap Run will remain unchanged.

L. Green Ridge Boys Camp System and Service Area

The Green Ridge Boys Camp System is located in eastern Allegany County and is a facility that is operated by Maryland Department of Juvenile Services (Appendix 4.24). The system is in operation year round and averages a population of 35 students and 2-10 staff members. The wastewater collection system and treatment plant are both operated by Maryland Environmental Service. The WWTP is rated to treat 8,000 gpd and is comprised of four septic tanks (which function as settling tanks and flow equalizers), a pump station, lime feed system, a continuous flow sequential batch reactor, and Ultraviolet disinfection units. The treated water is discharged into Fifteen Mile Creek.

The plant has been upgraded to a Sequential Batch Reactor, as the existing system was outdated and needed to meet the requirements of the 2010 NPDES permit (ammonia concentrations lower possible with previous system). Improvements are funded through capital improvements and critical maintenance requests.

The wastewater collection system consists of approximately 1,500 feet of gravity sewer, 630 feet of force main, and 7 cleanouts.

M. Little Orleans Campground System and Service Area

The Little Orleans Campground System is located in eastern Allegany County, near the confluence of Fifteen Mile Creek and the Potomac River, as shown in Appendix 4.25. The Little Orleans sewer system serves 200 campsites. The system owned by Little Orleans Campground and Park Area Inc. and is operated by Environmental Quality & Standards. It is designed for an average flow of 20,000 gpd, but is currently permitted for 10,000 gpd. The wastewater treatment plant consists of two lagoons with a capacity of 2.5 million gallons and chlorination treatment. The WWTP and the transmission pipes are in good condition. Little Orleans Campground and Park Area Inc. will be seeking additional capacity for the WWTP as there are plans to expand the number of camping sites on the property

N. Dan's Mountain System and Service Area

The Dan's Mountain System is located in Dan's Mountain State Park in western Allegany County just east of the Town of Lonaconing. The service area consists of the entire Dan's Mountain State Park property (481 acres). See Appendix 4.26 for a service area map.

The system consists of four separate on-site sewage disposal systems ("OSDS" – also known as "septic tanks") that treat various wastewater discharges throughout the Park property. The average flow for these four OSDS is unknown. However, it has been included as a Multi-use Sewerage System since the accompanying water system is so extensive.

The condition of the OSDS is unknown and no improvement projects are planned at this time.

O. Future Sewer Service Areas

There are proposed expansions to existing sewer systems which are delineated as future service areas on the Sewer Service Area map found as an enclosure at the end of this Plan. These proposed service areas are being considered for several different reasons, which include, but are not limited to, new subdivisions in which utilities are to be constructed to county specifications or the need to replace aging and/or failing septic systems, and therefore reduce nutrient loading. All but one of the proposed new service areas are adjacent to existing service areas and will utilize existing capacity present within the current wastewater treatment system.

1. Terrapin Run

The Terrapin Run development was approved by the Allegany County Board of Zoning Appeals as a 4,300 unit Planned Residential Development. This area is not currently supported by any type of wastewater treatment system. Through their review and approval of the 2007 Master Water & Sewer Plan, the Planning & Zoning Commission reduced the scope of this development by nearly 80 percent (from 4,300 to 930 units). Additionally, these units were to be sequenced in such a manner that no more than 360 would be constructed within the first 10 years.

Development of this project has been delayed by the economy, lawsuits, and appeals and its future is unclear. However, it is certain that this development will not have a significant landscape-level impact and development activities will be on a minor scale utilizing onsite wastewater treatment technology or community wastewater system. A scale of development that exceeds the reduced scope will necessitate some type of wastewater treatment plant that must be engineered and financed through private means.

Additionally, it should be noted that any wastewater treatment plan that involves effluent discharge to Fifteen Mile Creek will be required to pursue a Tier II Anti-Degradation permit from MDE.

4.03 Sewer Projects

This section identifies projects that have been completed in the time frame since the adoption of the 2010 Master Water and Sewer Plan Update. All known proposed projects scheduled to take place within the next ten years are listed, whether publicly- or privately-funded. Private projects are italicized and are subject to approval by required permitting agencies.

Completed Projects (Since 2010 Allegany County Water & Sewerage Plan)

- Allegany County – Bedford Road Sewer Rehab – Phase I: Ioka LPGS
- Allegany County – Bedford Road Sewer Rehab – Phase II: Shades Lane
- Allegany County – Bedford Road Sewer Rehab – Phase III: Highland Estates
- Allegany County – Braddock Run Sewer Rehab – Phase I: Eckhart
- Allegany County – Braddock Run Sewer Rehab – Phase II: Collector Sewer Repairs
- Allegany County – Braddock Run Sewer Rehab – Phase III: Grahamtown/Sand Spring Run Interceptor Sewer Repairs
- Allegany County – Utilities SCADA
- Cumberland – Evitts Creek CSO Pipe Improvements – Phase I
- Cumberland – Evitts Creek CSO Pipe Improvements – Phase II
- Cumberland – Industrial Blvd/Cedar Street Sewer Improvements
- Frostburg – CSO Separation, Phase VII B-1
- Frostburg – CSO Separation, Phase VII B-2
- Exit 33, I-68 @ Braddock Road (Frostburg)
- LaVale – Sewer Manhole Rehabilitation Project

S-1, Under Construction

1. Allegany County – Bedford Road Sewer Rehab – Phase IV: Mill Run
2. Allegany County – Braddock Run Sewer Rehab – Phase IV: Wrights Crossing Pump Station Improvements

S-2, Final Planning Stages

3. Allegany County – Biers Lane Collector System
4. Allegany County – Bowling Green Equipment Garage
5. Allegany County – North Branch WWTP Clarifier Replacement
6. Allegany County – Locust Grove WWTP Study
7. Cumberland Chase Subdivision (near Pinto)
8. Frostburg – CSO Separation, Phase VIII
9. Keyser – WWTP & Collection System Upgrade
10. LaVale – Sewage Pump Station Upgrade
11. Lonaconing – Koontz Plant Backwash Drain Line
12. Rocky Gap State Park – 0.15 MGD Wastewater Treatment Plant Upgrade

S-3, Immediate Priority

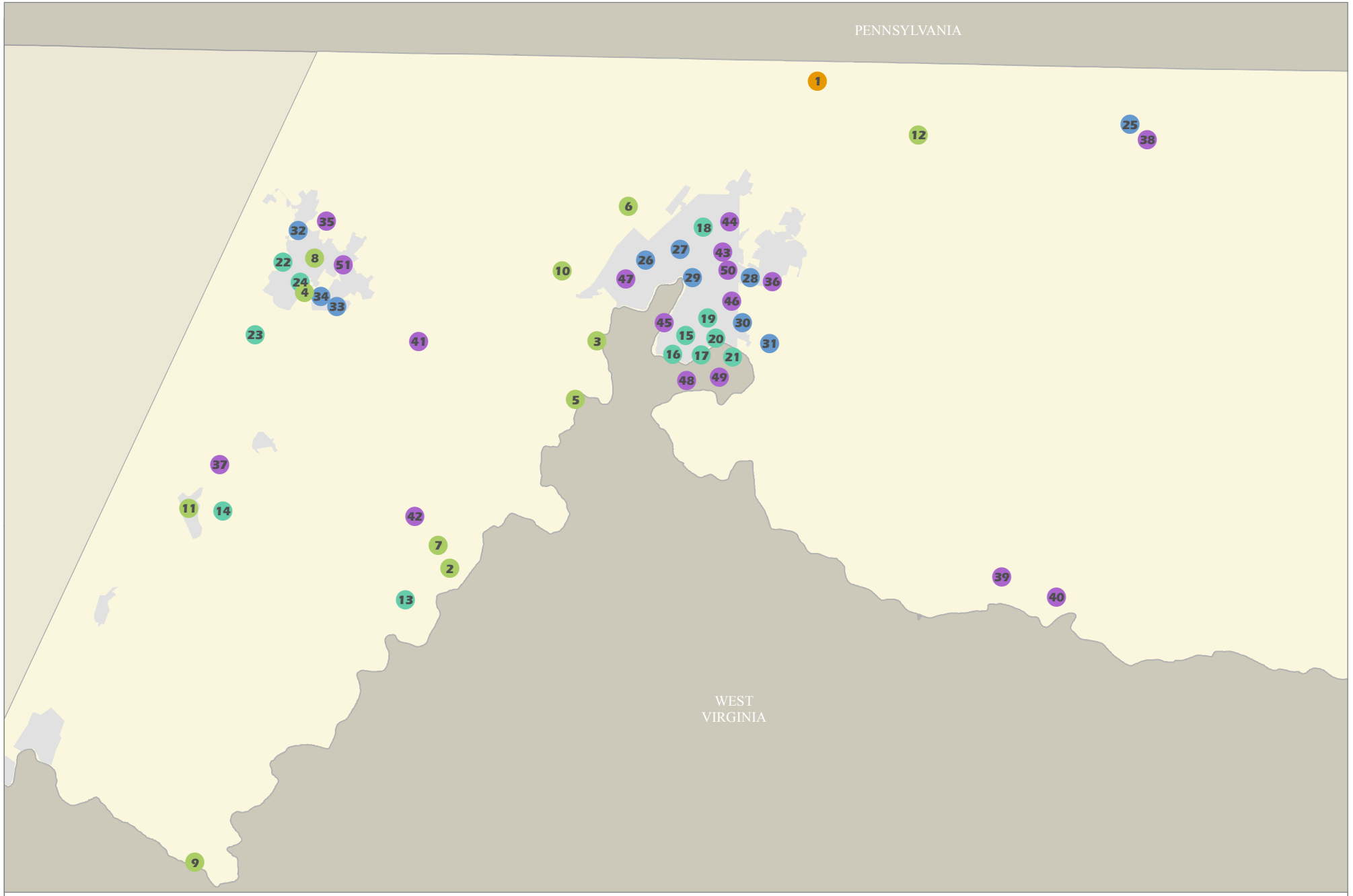
13. Allegany County – Bedford Road Sewer Rehab/I&I Improvements
14. Allegany County – Bowling Green Sewer Rehab/I&I Improvements
15. Allegany County – Braddock Run Sewer Rehab/I&I Improvements
16. Allegany County – Cresaptown Sewer Rehab/I&I Improvements
17. Allegany County – Georges Creek Sewer Rehab/I&I Improvements
18. Allegany County – Jennings Run Sewer Rehab/I&I Improvements
19. Allegany County – Rawlings Sewer
20. Allegany County – Water Station Run Road Sewer
21. Cumberland – Combined Sewer Rehabilitation
22. Cumberland – Evitts Creek CSO Pipe Improvements to WWTP- Phase III
23. Cumberland – Mill Race CSO Facility Grit Removal Project
24. Cumberland – Wastewater/Sewer System Study
25. Cumberland – WWTP CSO Storage Facility/Tank
26. Cumberland – WWTP Rehabilitation/Improvements
27. Cumberland – WWTP Sludge Screen Project
28. Frostburg – CSO Separation
29. Morgan Farm Subdivision (near Frostburg)
30. Sand Spring Subdivision, Phase II (Frostburg)

S-4, Six-Year Period

31. Allegany County – Flintstone Sewer Rehab
32. Cumberland – Citywide Sewer System Rehabilitation & Extension
33. Cumberland – Combined Sewer Rehabilitation
34. Cumberland – Evitts Creek CSO Pipe Improvements from WMHS to Pump Station – Phase IV
35. Cumberland – North End System Mechanic/Centre CSO Pipe Upgrades
36. Cumberland – Wastewater System Capacity Study
37. Cumberland – WWTP Rehabilitation/Improvements
38. Exit 34, I-68 at Route 36 (Frostburg)
39. Frostburg – CSO Separation
40. Frostburg – Sewer Flow Meter
41. Prichard Farms Subdivision (Frostburg)

S-5, Ten Year Period

42. Allegany County – Borden/Zihlman Sewer Project
43. Allegany County – Evitts Creek Interceptor
44. Allegany County – Georges Creek System Rehab and Extension (10+ years)
45. Allegany County – Flintstone WWTP Upgrade/Improvements/Replacement
46. Allegany County – Oldtown System Rehab and Extension (10+ years)
47. Allegany County – Oldtown WWTP Upgrade/Improvements/Replacement
48. Allegany County – Vale Summit Sewer Project
49. Cumberland Chase Subdivision (later Phases)
50. Cumberland – Combined Sewer Rehabilitation
51. Cumberland – McNamee Area Sewer Improvements/Upgrade
52. Cumberland – Mill Race CSO Storage/Pipeline Improvements (@ C&O Canal)
53. Cumberland – Nutrient Trading
54. Cumberland – TMDLs (CSO related)
55. Cumberland – WWTP Rehabilitation/Improvements
56. Cumberland – WWTP UV Disinfection Upgrade
57. Cumberland – Willowbrook Road Corridor Wastewater System Expansion
58. Cumberland – WWTP Energy Reduction/Renewable Energy Improvements
59. Frostburg – CSO Separation (Final Phases)
60. Frostburg – Sewer GIS Inventory



Planned County Sewer Service Projects
Appendix 4.27

0 16,000 32,000 Feet

1 inch = 16,000 feet

N

Category
S-1
S-2
S-3
S-4
S-5

4.04 Inventory of Existing Sewage Treatment Plants

Table 4.1 Inventory of Existing Sewage Treatment Plants

WWTP Owner	Treatment Type	Point of Discharge*	Existing (MGD) Capacity	Flows (MGD) Average Peak	Planned or Expected Abandon-ment Date	Operating Agency
Public						
City of Cumberland Riverside	BNR/ENR	North Branch Potomac	15	10.7/26	n/a	City of Cumberland
Maryland Water Service	Aerated lagoon w/ chlorination & dechlorination	North Branch Potomac	0.45	0.223/ 0.450	n/a	Maryland Water Service
Upper Potomac River Commission	Activated Sludge	North Branch Potomac		21/ 30	n/a	UPRC
Rawlings Improvement Association Inc.	Aerated lagoon w/ chlorination & dechlorination	North Branch Potomac	0.143	0.07/0.320	n/a	Rawlings Improvement Association
North Branch	BNR/ENR	North Branch Potomac	2.00	1.542/3.291	n/a	Allegany County Utilities Division
Oldtown	Extended Aeration	Mill Run	0.04	.007/.066	n/a	Allegany County Utilities Division
Flintstone	Extended Aeration	Town Creek	0.045	.058/.190	n/a	Allegany County Utilities Division
Tri-Towns	Extended Aeration	North Branch Potomac	0.003	0/0	(currently not in use)	Allegany County Utilities Division
Barton Business Park	SBR	Lower North Branch Potomac	0.05	.007/.036	n/a	Allegany County Utilities Division
Georges Creek	BNR/ENR	Georges Creek	0.7	.554/1.306	n/a	Allegany County Utilities Division
Keyser	Class 2 Lagoon System	North Branch Potomac	2.1	2.1/8.0	n/a	City of Keyser
Private Community**						
Green Ridge Boys Camp	Septic Tanks, SBR, UV disinfection units	15 Mile Creek	0.008		n/a	Maryland Environmental Service
Rocky Gap State Park	Primary treatment, biological (package plant) treatment, tertiary treatment	Rocky Gap Run	0.12	0.044/ 0.20	n/a	Maryland Environmental Service
Private Non-Community**						
Little Orleans Campground PA Inc.	chlorine	15 Mile Creek	0.01	0.0016	n/a	Environmental Quality & Standards

** If transfer to public ownership is recommended, indicate expected date.

4.05 Problem Areas Inventory-Individual and Community

Table 4.2 Inventory of Problem Areas

Service Area	Problem Description	Location	Population	Acres	Treatment Capacity	Treatment Demand	Planned Correction Date if Known
Rocky Gap	WTP upgrades will cause create need for WWTP upgrade				.239 MGD	0.3 MGD	interim improvements as funding is available
LaVale	Force main deterioration	Mechanic Street Relief Sewer	~5,100		no treatment by LaVale	no treatment by LaVale	rehab design complete, funding sought
Frostburg	Combined Sewer System in process of separation		~7,100		no treatment by Frostburg	no treatment by Frostburg	sewer separation 2003-2023
Cumberland	Combined Sewer Overflows		~21,500				CSO storage tank design/permitting underway
Westernport	Combined Sewer Overflows		~2,700				ongoing rehab
Borden/ Zihlman	Septic System Failures	between Frostburg and Mt. Savage	~275 homes (~700 people)		no treatment currently	no treatment currently	provide area with public sewer- 2020-2025
Flintstone, Braddock Run	Aging Lines - Inflow & Infiltration	Countywide	varies	varies	varies	varies	ongoing rehab
Bedford Road, Bowling Green, Cresaptown/Bel Air, Jennings Run, Georges Creek	Sanitary Sewer Overflows	Countywide	varies	varies	varies	varies	ongoing rehab

4.06 Water Quality Problem Due to Storm Drainage Outfalls and Non-point Sources

Table 4.3 Water Quality Problems (Drainage & Non-Point Source)

Service Area	Problem Description	Location	Reach Affected
Frostburg	CSO Outfalls		Georges Creek

4.07 Projected Sewerage Demands and Planned Capacity

Table 4.4 **Projected Sewerage Demands & Planned Capacity**

	2015				
	Population		GPCD	Capacity (MGD)*	
Service Area	Total	Served	gallons	existing capacity	demand
Biers Lane	75	75	93.3	0.010	0.007
Bowling Green**	2,181	2,181	192.6	1.200	0.420
Cresaptown**	2,017	2,017	185.4	1.200	0.374
LaVale-Winchester Rd	779	779	192.6	0.300	0.150
Bedford Road**	2,984	2,984	198.1	0.650	0.591
Braddock Run	2,363	2,363	211.6	2.000	0.500
Jennings Run/ Wills**	2,878	2,878	215.8	0.650	0.621
Mexico Farms	1,926	1,926	211.3	0.450	0.407
Oldtown Road	716	716	69.8	1.500	0.050
Cumberland**	21,495	21,495	346.9	8.000	7.457
Frostburg**	7,116	7,116	154.6	1.500	1.100
LaVale**	5,099	5,099	241.2	2.000	1.230
Flintstone	183	183	316.9	0.045	0.058
Georges Creek**	5,299	5,299	104.5	0.700	0.554
McCoole	522	522	134.1	0.500	0.070
Oldtown	122	122	57.4	0.040	0.007
Pinto	2,546	2,546	117.8	0.450	0.300
Rawlings	702	702	121.1	0.143	0.085
Franklin/ Brophytown	341	341	176.0	0.080	0.060
Westernport	2,672	2,672	164.7	0.500	0.440
Green Ridge Boys Camp	40	40	67.5	0.003	0.003
Little Orleans Campground	200	200	5.0	0.008	0.001
Rocky Gap	820,000	820,000	0.1	0.120	0.043

* Capacity may be a reflection of the service area pump stations and pipe diameters, not necessarily the capacity of the WWTP. Should significant development take place in any one or more of these service areas, capacity at the service area level in addition to system capacity should be carefully scrutinized.

Large industrial usage has been removed from Cumberland Service Area, all other service areas may include any industrial use.

** = Service area subject to ongoing inflow & infiltration (I&I) reduction program, which may explain why future projected demands are less than current demands

Table 4.4 **Projected Sewerage Demands & Planned Capacity**

	2025				
	Population		GPCD	Capacity (MGD)*	
Service Area	Total	Served	gallons	demand	planned
Biers Lane	75	75	126	0.010	0.010
Bowling Green**	2,193	2,193	547	1.200	1.200
Cresaptown**	2,028	2,028	592	1.200	1.200
LaVale-Winchester Rd	783	783	192	0.150	0.150
Bedford Road**	3,000	3,000	217	0.650	0.650
Braddock Run	2,376	2,376	842	2.000	2.000
Jennings Run/ Wills**	2,894	2,894	225	0.650	0.650
Mexico Farms	1,936	1,936	232	0.450	0.450
Oldtown Road	720	720	2084	1.500	1.500
Cumberland**	21,611	21,611	370	8.000	8.000
Frostburg**	7,154	7,154	210	1.500	1.500
LaVale**	5,127	5,127	410	2.100	2.100
Flintstone	184	184	245	0.045	0.045
Georges Creek**	5,328	5,328	131	0.700	0.700
McCoole	525	525	953	0.500	0.500
Oldtown	123	123	326	0.040	0.040
Pinto	2,560	2,560	176	0.450	0.450
Rawlings	706	706	203	0.143	0.143
Franklin/ Brophytown	343	343	233	0.080	0.080
Westernport	2,686	2,686	186	0.500	0.500
Green Ridge Boys Camp	40	40	75	0.003	0.003
Little Orleans Campground	275	275	727	0.200	0.200
Rocky Gap	860,000	860,000	0	0.120	0.120

* Capacity may be a reflection of the service area pump stations and pipe diameters, not necessarily the capacity of the WWTP. Should significant development take place in any one or more of these service areas, capacity at the service area level in addition to system capacity should be carefully scrutinized.

Large industrial usage has been removed from Cumberland Service Area, all other service areas may include any industrial use.

** = Service area subject to ongoing inflow & infiltration (I&I) reduction program, which may explain why future projected demands are less than current demands

Table 4.4 **Projected Sewerage Demands & Planned Capacity**

	2035				
	Population		GPCD	Capacity (MGD)*	
Service Area	Total	Served	gallons	demand	planned
Biers Lane	76	76	124	0.010	0.010
Bowling Green**	2,219	2,219	541	1.200	1.200
Cresaptown**	2,052	2,052	585	1.200	1.200
LaVale-Winchester Rd	793	793	189	0.150	0.150
Bedford Road**	3,036	3,036	214	0.650	0.650
Braddock Run	2,404	2,404	832	2.000	2.000
Jennings Run/ Wills**	2,928	2,928	222	0.650	0.650
Mexico Farms	1,960	1,960	230	0.450	0.450
Oldtown Road	729	729	2059	1.500	1.500
Cumberland**	21,870	21,870	366	8.000	8.000
Frostburg**	7,240	7,240	276	2.000	2.000
LaVale**	5,188	5,188	424	2.200	2.200
Flintstone	186	186	242	0.045	0.045
Georges Creek**	5,392	5,392	130	0.700	0.700
McCoole	531	531	941	0.500	0.500
Oldtown	124	124	322	0.040	0.040
Pinto	2,590	2,590	174	0.450	0.450
Rawlings	714	714	200	0.143	0.143
Franklin/ Brophytown	347	347	231	0.080	0.080
Westernport	2,719	2,719	184	0.500	0.500
Green Ridge Boys Camp	41	41	74	0.003	0.003
Little Orleans Campground	275	275	727	0.200	0.200
Rocky Gap	920,000	920,000	0	0.120	0.120

* Capacity may be a reflection of the service area pump stations and pipe diameters, not necessarily the capacity of the WWTP. Should significant development take place in any one or more of these service areas, capacity at the service area level in addition to system capacity should be carefully scrutinized.

Large industrial usage has been removed from Cumberland Service Area, all other service areas may include any industrial use.

** = Service area subject to ongoing inflow & infiltration (I&I) reduction program, which may explain why future projected demands are less than current demands

Table 4.4 **Projected Sewerage Demands & Planned Capacity**

	2045				
	Population		GPCD	Capacity (MGD)*	
Service Area	Total	Served	gallons	demand	planned
Biers Lane	78	78	122	0.010	0.010
Bowling Green**	2,263	2,263	530	1.200	1.200
Cresaptown**	2,093	2,093	573	1.200	1.200
LaVale-Winchester Rd	808	808	186	0.150	0.150
Bedford Road**	3,097	3,097	210	0.650	0.650
Braddock Run	2,452	2,452	816	2.000	2.000
Jennings Run/ Wills**	2,987	2,987	218	0.650	0.650
Mexico Farms	1,999	1,999	225	0.450	0.450
Oldtown Road	743	743	2019	1.500	1.500
Cumberland**	22,308	22,308	359	8.000	8.000
Frostburg**	7,385	7,385	406	3.000	3.000
LaVale**	5,292	5,292	435	2.300	2.300
Flintstone	190	190	237	0.045	0.045
Georges Creek**	5,499	5,499	127	0.700	0.700
McCoole	542	542	923	0.500	0.500
Oldtown	127	127	316	0.040	0.040
Pinto	2,642	2,642	170	0.450	0.450
Rawlings	729	729	196	0.143	0.143
Franklin/ Brophytown	354	354	226	0.080	0.080
Westernport	2,773	2,773	180	0.500	0.500
Green Ridge Boys Camp	42	42	72	0.003	0.003
Little Orleans Campground	275	275	727	0.200	0.200
Rocky Gap	1,000,000	1,000,000	0	0.120	0.120

* Capacity may be a reflection of the service area pump stations and pipe diameters, not necessarily the capacity of the WWTP. Should significant development take place in any one or more of these service areas, capacity at the service area level in addition to system capacity should be carefully scrutinized.

Large industrial usage has been removed from Cumberland Service Area, all other service areas may include any industrial use.

** = Service area subject to ongoing inflow & infiltration (I&I) reduction program, which may explain why future projected demands are less than current demands

4.08 Immediate, 5, and 10 Year Priorities for Sewerage Development

Table 4.5 Immediate, 5-, & 10-Year Priorities for Sewerage Development

Project Number	Responsible Entity/Agency	County Priority Assigned	Coordinate Location*	Project Name/Description	Project Status/ Const. Start	
					Immed. Priority	5-10 yr.
1	Allegany County	S-1		Bedford Road Sewer Rehab – Phase IV: Mill Run	X	
2	Allegany County	S-2		Braddock Run Sewer Rehab – Phase IV: Wrights Crossing Pump Station Improvements	X	
3	Allegany County	S-2		Biers Lane Collector System	X	
4	Allegany County	S-2		Bowling Green Equipment Garage	X	
5	Allegany County	S-2		North Branch WWTP Clarifier Replacement	X	
6	Allegany County	S-2		Locust Grove WWTP Study	X	
7	Private	S-2		Cumberland Chase Subdivision (near Pinto)	X	
8	Frostburg	S-2		CSO Separation, Phase VIII	X	
9	Keyser	S-2		WWTP & Collection System Upgrade	X	
10	LaVale	S-2		Sewage Pump Station Upgrade	X	
11	Lonaconing	S-2		Koontz Plant Backwash Drain Line	X	
12	Rocky Gap	S-2		Rocky Gap State Park – 0.15 MGD Wastewater Treatment Plant Upgrade	X	
13	Allegany County	S-3		Bedford Road Sewer Rehab/I&I Improvements	X	
14	Allegany County	S-3		Bowling Green Sewer Rehab/I&I Improvements	X	
15	Allegany County	S-3		Braddock Run Sewer Rehab/I&I Improvements	X	
16	Allegany County	S-3		Cresaptown Sewer Rehab/I&I Improvements	X	
17	Allegany County	S-3		Georges Creek Sewer Rehab/I&I Improvements	X	
18	Allegany County	S-3		Jennings Run Sewer Rehab/I&I Improvements	X	
19	Allegany County	S-3		Rawlings Sewer	X	
20	Allegany County	S-3		Water Station Run Road Sewer	X	
21	Cumberland	S-3	Citywide	Combined Sewer Rehabilitation	X	
22	Cumberland	S-3	39˚37'46"N/78˚44'19"W	Evitts Creek CSO Pipe Improvements to WWTP- Phase III	X	
23	Cumberland	S-3	39˚38'06"N/78˚45'59"W	Mill Race CSO Facility Grit Removal Project	X	
24	Cumberland	S-3	Citywide	Wastewater/Sewer System Study	X	
25	Cumberland	S-3	39˚37'28"N/78˚45'26"W	WWTP CSO Storage Facility/Tank	X	
26	Cumberland	S-3	39˚37'32"N/78˚45'20"W	WWTP Rehabilitation/Improvements	X	
27	Cumberland	S-3	39˚37'32"N/78˚45'20"W	WWTP Sludge Screen Project	X	
28	Frostburg	S-3		CSO Separation	X	
29	Private	S-3		Morgan Farm Subdivision (near Frostburg)	X	
30	Private	S-3		Sand Spring Subdivision, Phase II (Frostburg)	X	
31	Allegany County	S-4		Flintstone Sewer Rehab		X
32	Cumberland	S-4	Citywide	Citywide Sewer System Rehabilitation & Extension		X

33	Cumberland	S-4	Citywide	Combined Sewer Rehabilitation		X
34	Cumberland	S-4	39˚38'33"N/78˚44'10"W	Evitts Creek CSO Pipe Improvements from WMHS to Pump Station – Phase IV		X
35	Cumberland	S-4	39˚39'45"N/78˚46'18"W	North End System Mechanic/Centre CSO Pipe Upgrades		X
36	Cumberland	S-4		Wastewater System Capacity Study		X
37	Cumberland	S-4	39˚37'32"N/78˚45'20"W	WWTP Rehabilitation/Improvements		X
38	Private	S-4		Exit 34, I-68 at Route 36 (Frostburg)		X
39	Frostburg	S-4		CSO Separation		X
40	Frostburg	S-4		Sewer Flow Meter		X
41	Private	S-4		Prichard Farms Subdivision (Frostburg)		X
42	Allegany County	S-5		Borden/Zihlman Sewer Project		X
43	Allegany County	S-5		Evitts Creek Interceptor		X
44	Allegany County	S-5		Georges Creek System Rehab and Extension (10+ years)		X
45	Allegany County	S-5		Flintstone WWTP Upgrade/Improvements/Replacement		X
46	Allegany County	S-5		Oldtown System Rehab and Extension (10+ years)		X
47	Allegany County	S-5		Oldtown WWTP Upgrade/Improvements/Replacement		X
48	Allegany County	S-5		Vale Summit Sewer Project		X
49	Private	S-5		Cumberland Chase Subdivision (later Phases)		X
50	Cumberland	S-5	Citywide	Combined Sewer Rehabilitation		X
51	Cumberland	S-5	39˚40'10"N/78˚44'42"W	McNamee Area Sewer Improvements/Upgrade		X
52	Cumberland	S-5	39˚38'06"N/78˚45'59"W	Mill Race CSO Storage/Pipeline Improvements (@ C&O Canal)		X
53	Cumberland	S-5	39˚37'32"N/78˚45'20"W	Nutrient Trading		X
54	Cumberland	S-5	Citywide	TMDLs (CSO related projects)		X
55	Cumberland	S-5	39˚37'32"N/78˚45'20"W	WWTP Rehabilitation/Improvements		X
56	Cumberland	S-5	39˚37'32"N/78˚45'20"W	WWTP UV Disinfection Upgrade		X
57	Cumberland	S-5	39˚18'39"N/78˚44'43"W	Willowbrook Road Corridor Wastewater System Expansion		X
58	Cumberland	S-5		Cumberland – WWTP Energy Reduction/Renewable Energy Improvements		X
59	Frostburg	S-5		CSO Separation (Final Phases)		X
60	Frostburg	S-5		Sewer GIS Inventory		X

4.09 Flow Data – Wastewater Treatment Plants

Table 4.6 Flow Data - Wastewater Treatment Plants

Name/Service Area	Design Parameters			Flow	
	Hydraulic (MGD)	Organic (ppm) BOD	Organic (ppm) SS	Avg. Daily* (mgd)	Max. Day & Date**
Cumberland	38			10.7	36.4 (9/2011)
Pinto	0.45			0.223	0.45
Rawlings	0.143	30		0.07	.320 (05.05.09)
North Branch WWTP	Please see Table 4.7, below for WWTP Flows for Calendar Year 2014 for facilities operated by the Allegany County Department of Public Works - Utilities Division.				
Oldtown WWTP					
Flintstone WWTP					
Tri-Towns WWTP					
Barton Business Park WWTP					
Georges Creek WWTP					
Little Orleans Campground	0.04			.001 (60 days)	
Rocky Gap	0.12	30	30	0.043	0.2
Green Ridge Boys Boys Camp	0.008	30	30	0.0027	0.032

* Per Effective Date of Plan

** During Previous Fiscal Year

Table 4.7 WWTP Flows Operated by the Allegany County Department of Public Works - Utilities Division

Plant	State Permit #	NPDES Permit #	2014 Total Cum. Flow (mgd)	2014 Avg. Flow (mgd)	2013 Avg. Flow (mgd)	2012 Avg. Flow (mgd)	3 Year Avg. Flow (MGD)	Plant Design Capacity (MGD)	Flow Capacity of Design (%)	Capacity Mngmt. Plan Req'd
North Branch	09-DP-2625	MD0063878	477.01	1.31	1.49	1.40	1.40	2.00	70	No
Georges Creek	07-DP-2048	MD0060071	283.200	0.776	0.717	0.445	0.646	0.700	92	Yes
Flintstone	07-DP1465	MD0055620	13.093	0.036	0.057	0.053	0.049	0.045	108	Yes
Oldtown	07-DP-1004	MD0024759	6.418	0.018	0.019	0.008	0.015	0.04	37	No
Barton Park	08-DP-3402	MD0068896	2.080	0.006	0.005	0.007	0.006	0.05	12	No
Tri Towns	07-DP-2131	MD0070530	0.000	0.000	0.000	0.000	0.000	.003/.003	0	No

Chapter 5 Individual Water Supply and Sewerage Systems

5.01 Individual systems not permitted where community facilities are available.

Throughout the county individual well and onsite septic systems have been permitted in accordance with COMAR as it relates to the economic feasibility of construction.
Reference: COMAR 26.04.03.A

5.02 Interim individual systems are allowed.

Flintstone community sewerage system moratorium has resulted in individual on-site septic system installation.

Water line extension covering Oaklawn Ave. Ext., LaVale

Water line extension covering Ore Banks Rd., LaVale

5.03 Individual systems are allowed where community systems are not planned.

Rural areas of the county where water and wastewater infrastructure construction is not economically feasible or contains engineering issues that prevents public services from being considered, including:

Little Orleans

Green Ridge

Irons Mountain

Oldtown

Pumpkin Center

East Cumberland area

Chapter 6 Financial Management of Public Sewerage Systems

Allegany County Department of Public Works – Utilities Division works closely with the Allegany County Finance Department to financially manage the public sewerage systems owned and operated by Allegany County Department of Public Works – Utilities Division.

For information regarding the finances of the Allegany County public sewerage systems, please refer to the following documents:

Allegany County FY 2016 Adopted Budget

- http://gov.allconet.org/finance/budget/FY%202016%20Adopted%20Budget.pdf

Allegany County Comprehensive Annual Financial Report

- http://gov.allconet.org/finance/reporting/AlleganyCountyMD_CAFR.pdf

Allegany County Capital Improvement Program

- http://www.gov.allconet.org/finance/reporting/cip2016.pdf

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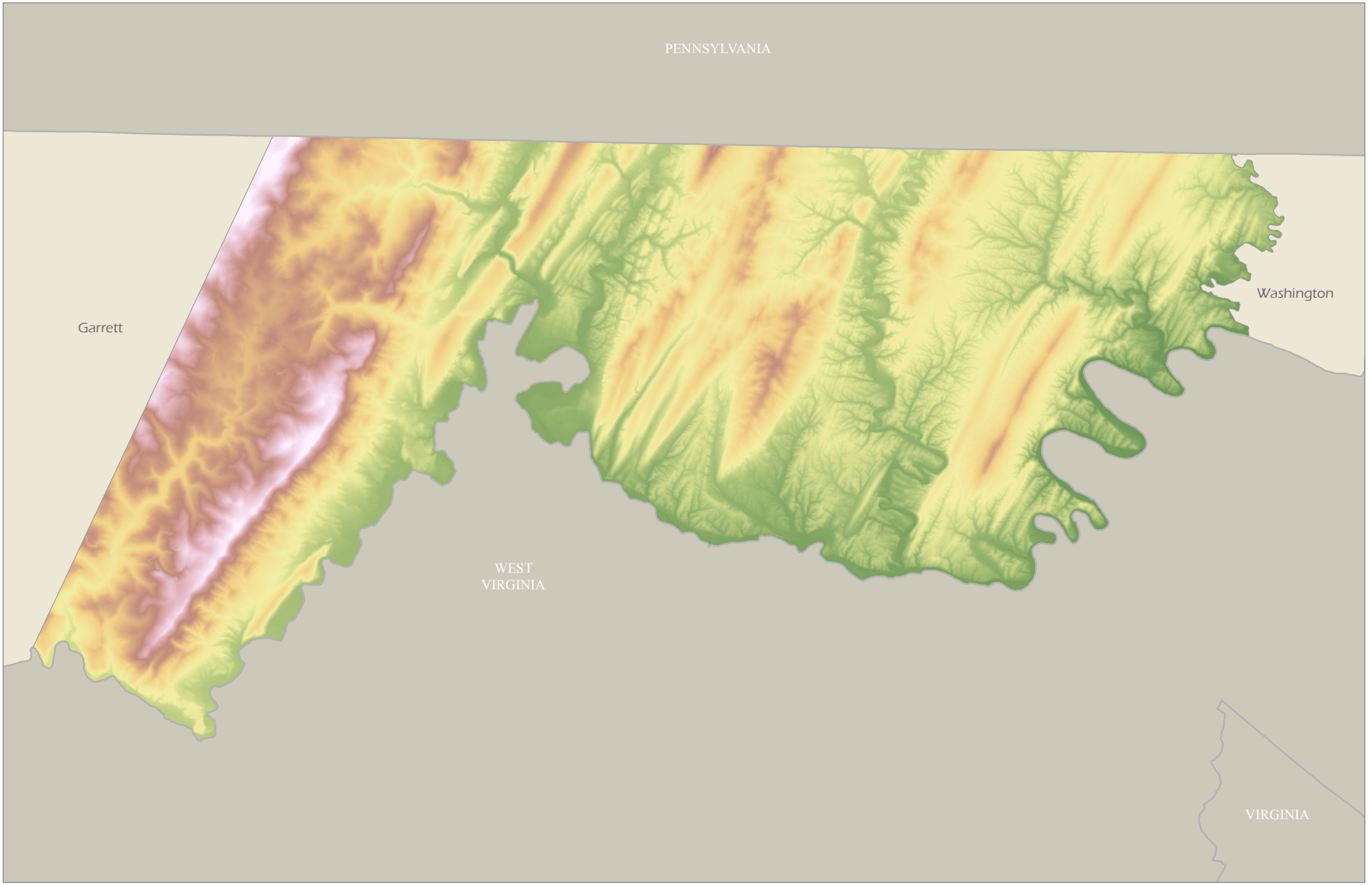
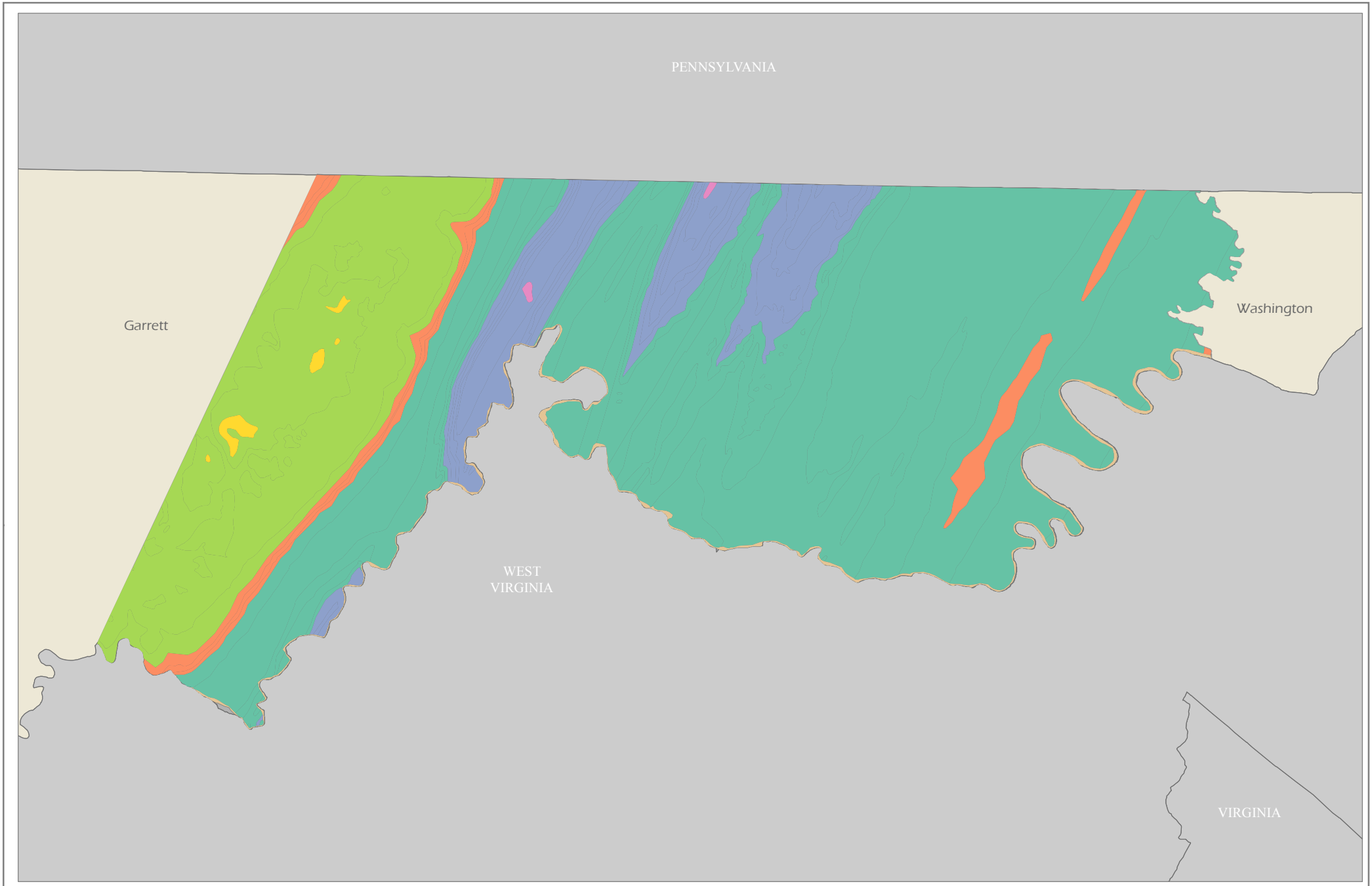
Chapter 7 Works Cited

Evitts Creek Watershed Protection Committee. "Source Water Protection Plan for Lake Gordon/Lake Koon." EPA Report. 2007.
NRCS. Allegany County Soil Survey. 2009.
US Census Bureau. American Community Survey. 2008. <http://factfinder.census.gov>.
USGS. "Ground Water Atlas of the United States." Delaware, Maryland, New Jersey, North Carolina, Pennsylvania, Viginia, West Virginia; HA 703-L. 15 07 2010 <http://pubs.usgs.gov/ha/ha730.html>.

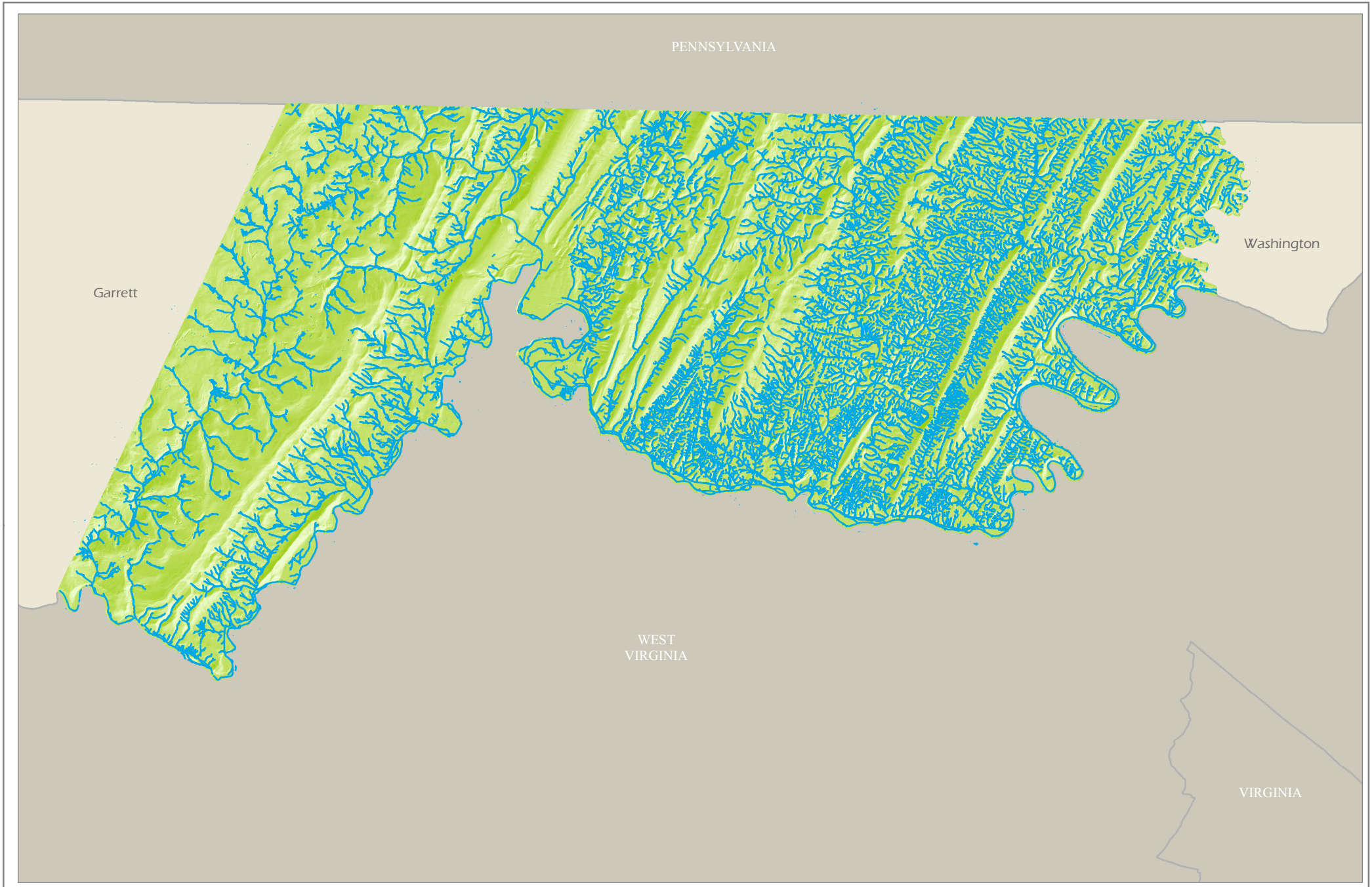


Topography
Appendix 2.01

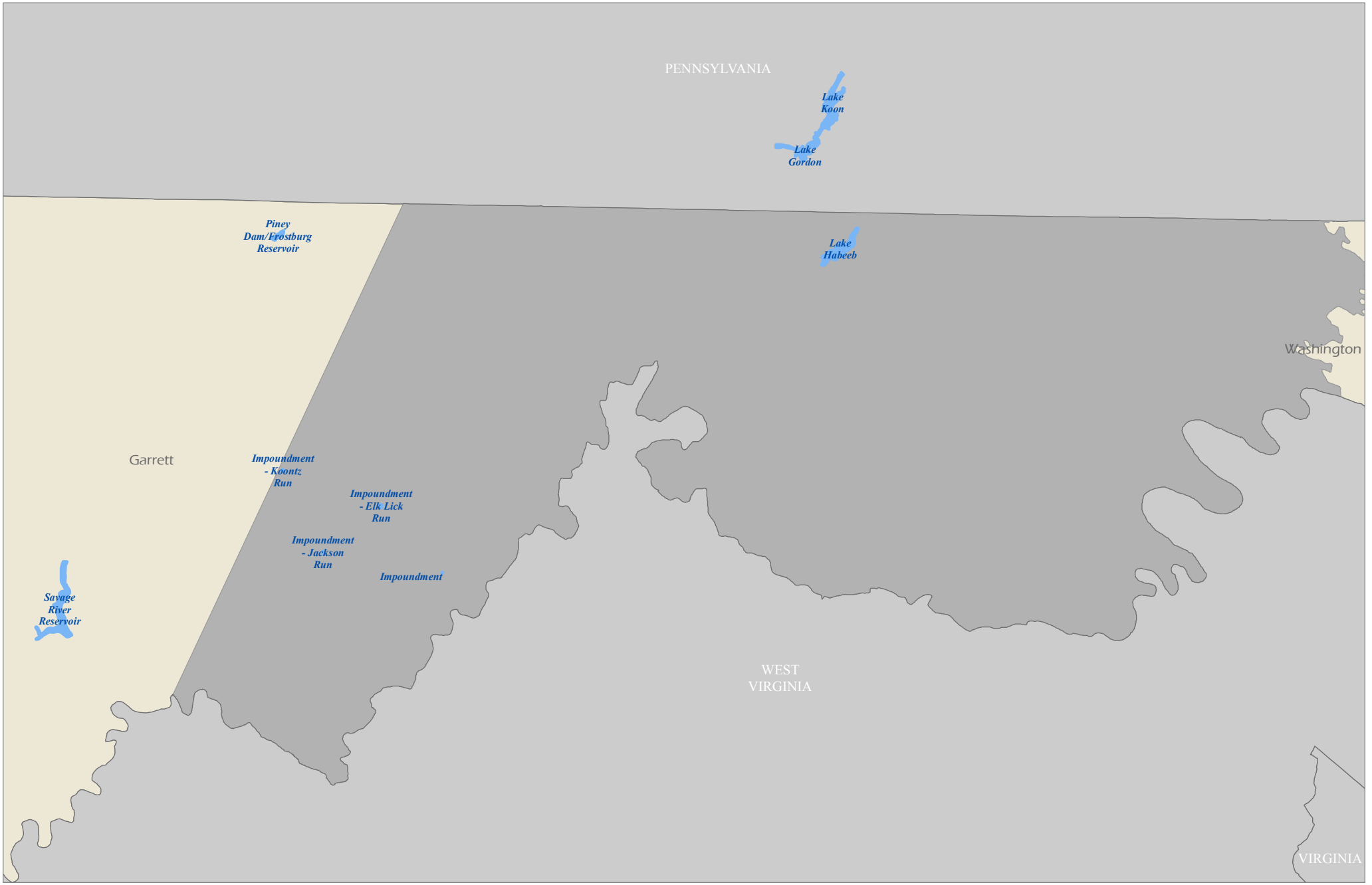
Soil Drainage Characteristics
Appendix 2.02



Geology
Appendix 2.03



Surface Water Patterns
Appendix 2.04

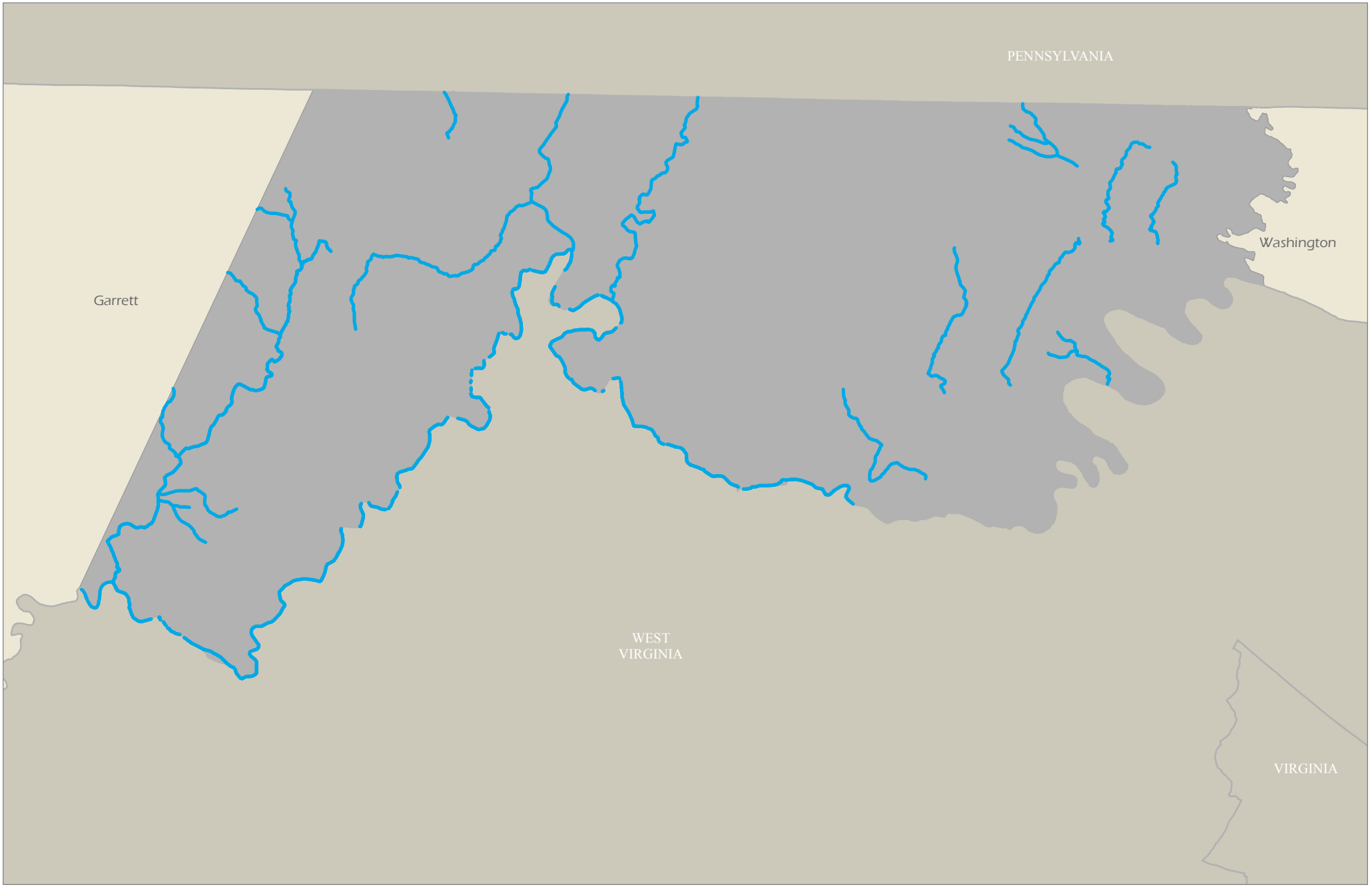


Public Dricking Water Supply
Appendix 2.05

N

0 25,000 50,000 Feet

A5



303d Impaired Surface Waters
Appendix 2.06

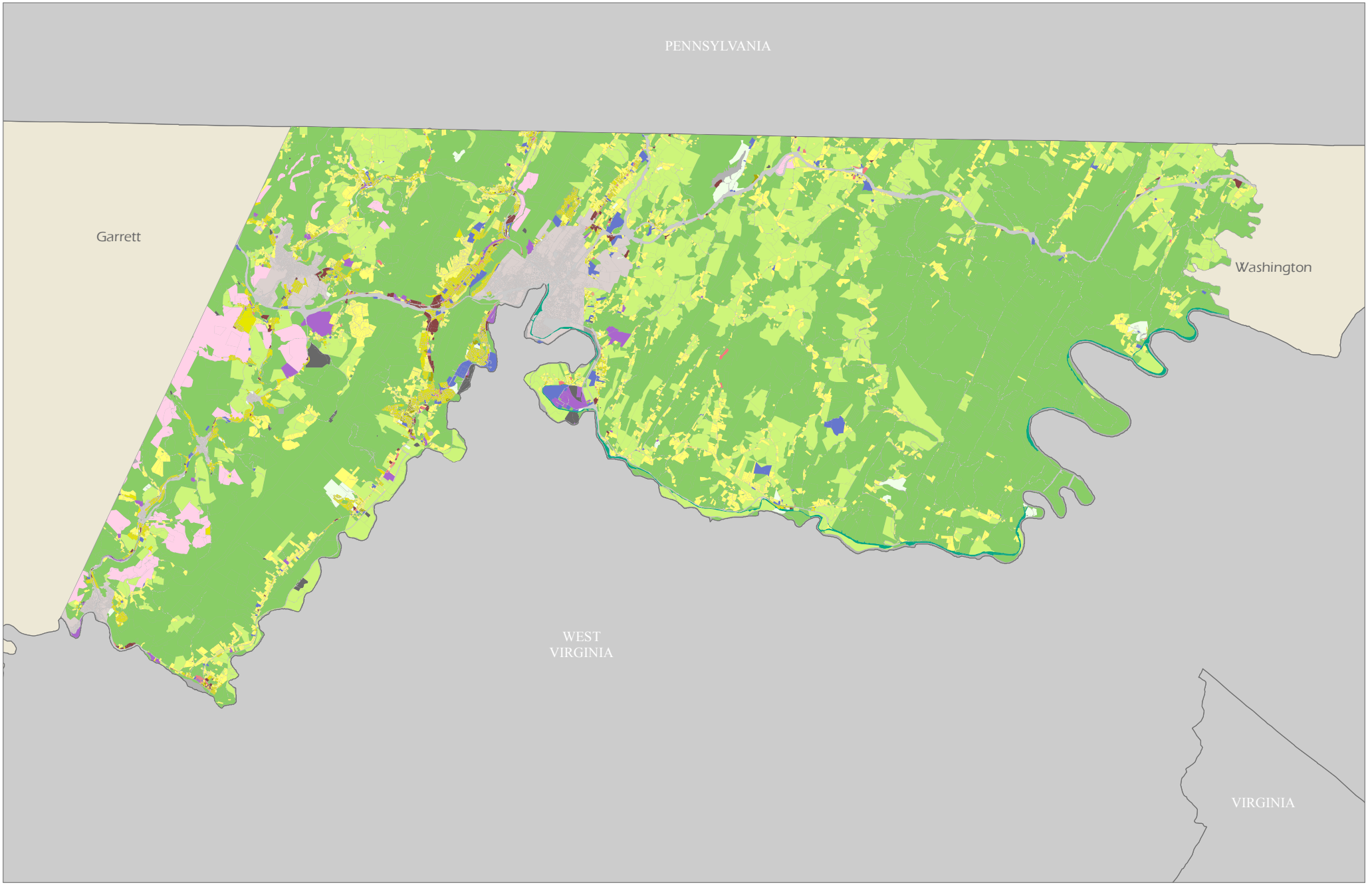
N

0 25,000 50,000 Feet

A6

Impaired Waters

Population Density FY 2010
Appendix 2.07



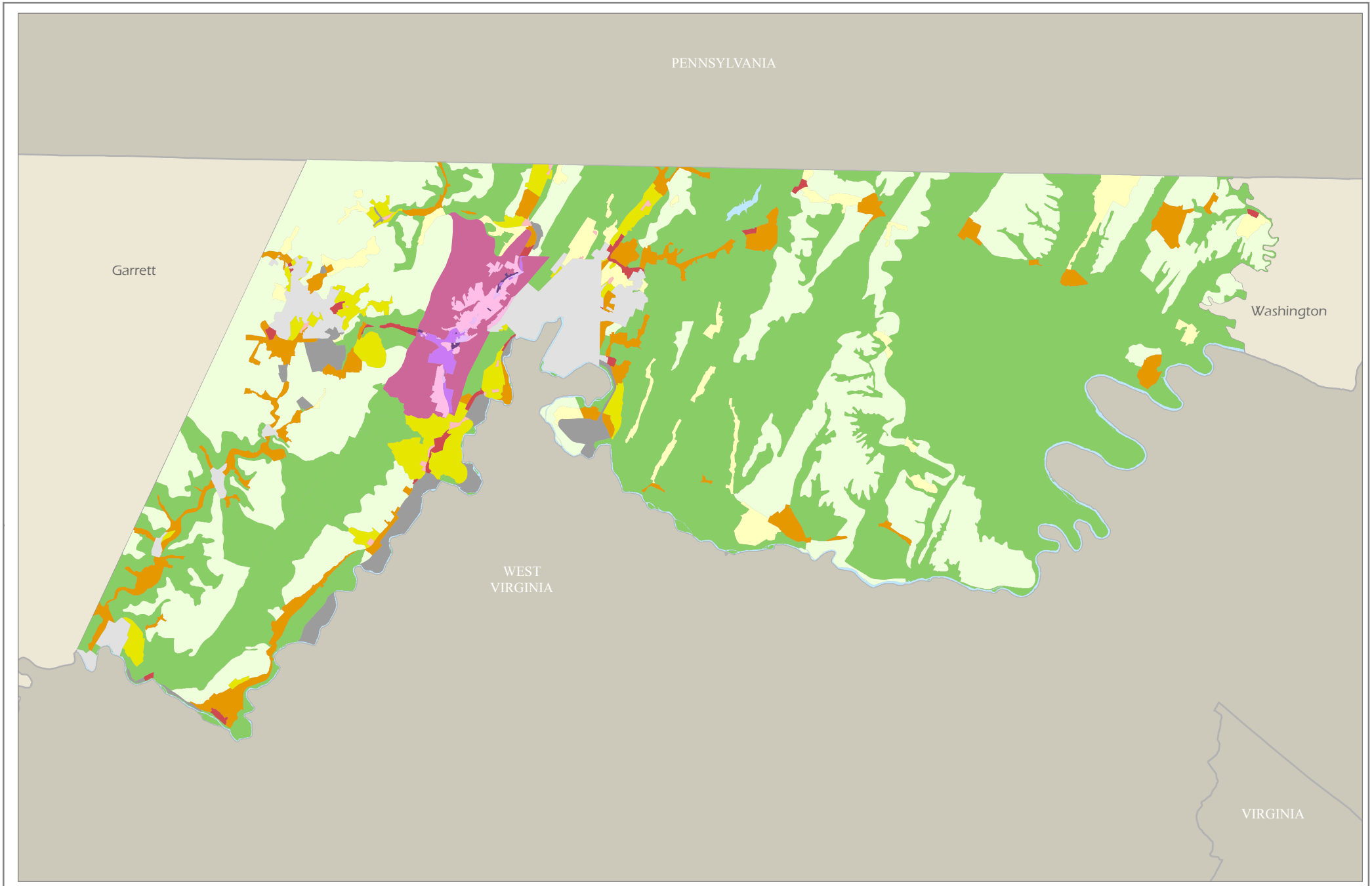
Existing Land Use
Appendix 2.08

N

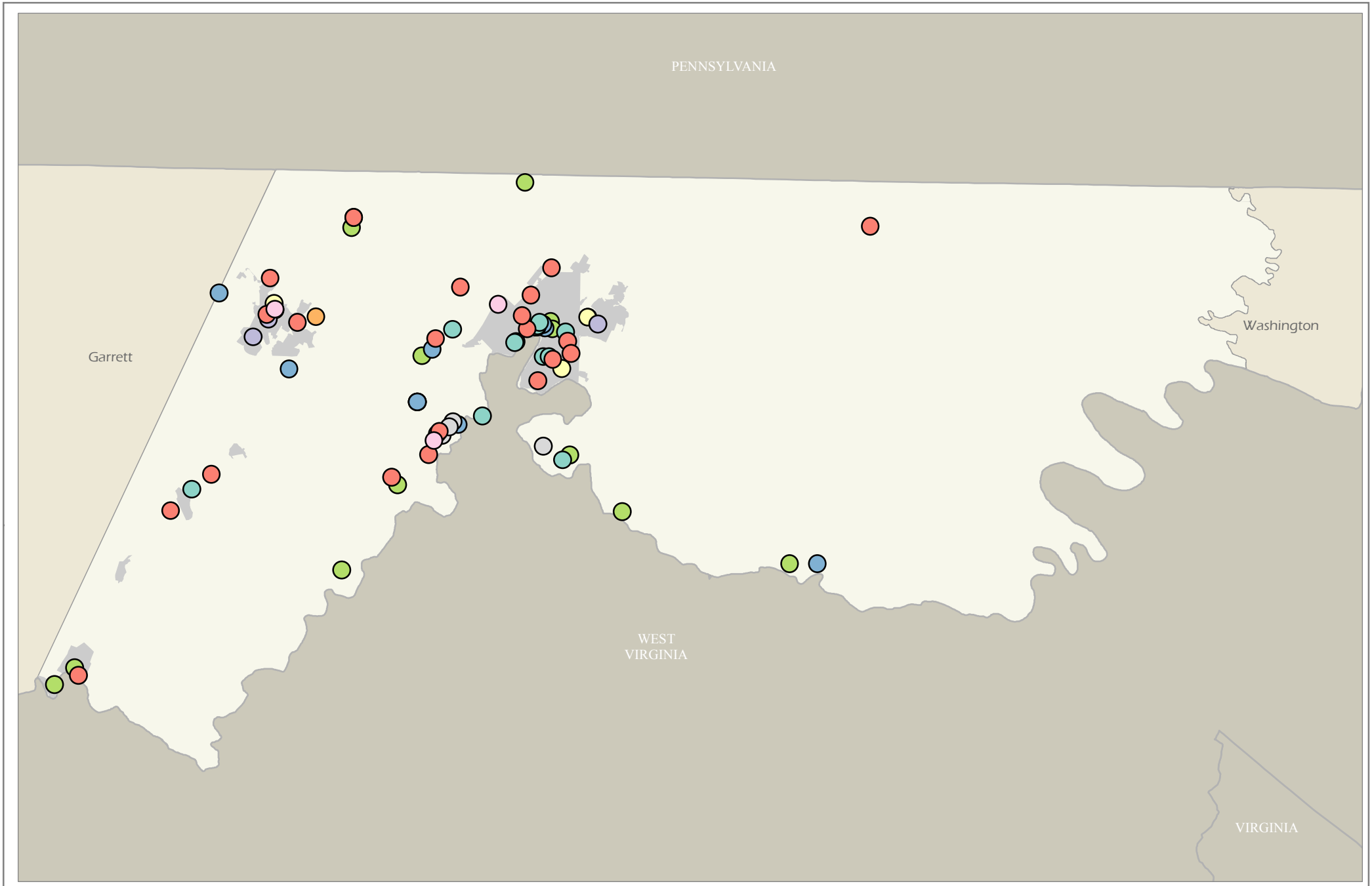
0 25,000 50,000 Feet

Existing Land Use

- Agriculture
- Forest
- Extractive
- Institutional
- Industrial & Warehousing
- Major Commercial
- Local Commercial
- Office/Professional
- Residential Office
- High Density Residential
- Medium Density Residential
- Low Density Residential
- Open Urban Land
- C & O Canal
- Sawmill
- Right of Way
- Transportation
- Utility
- River/Stream
- Lake/Pond
- Wetland
- Municipality

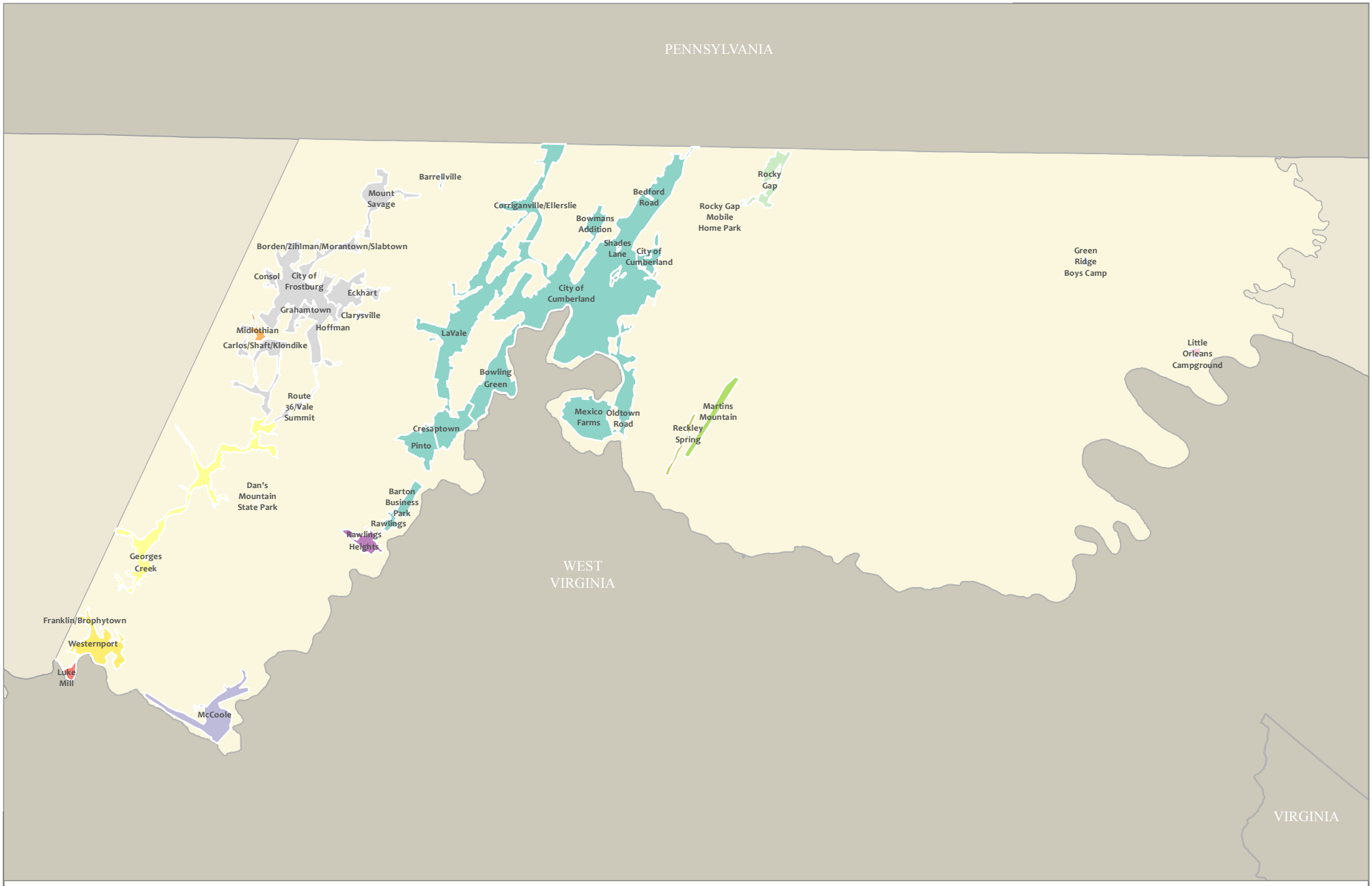


Zoning
Appendix 2.09



Institutions and Facilities
Appendix 2.10

A10



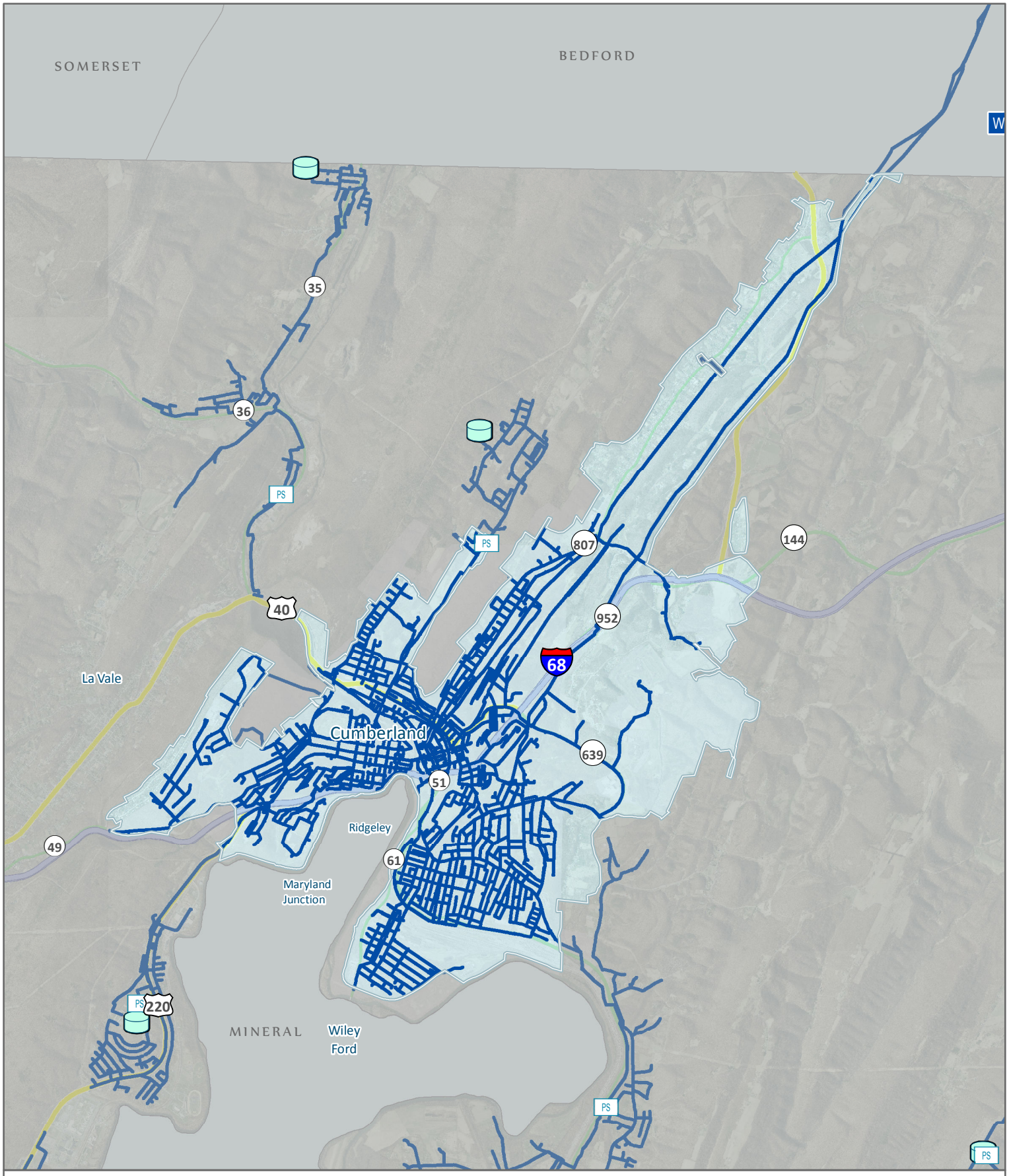
Water Service Areas
Appendix 3.01

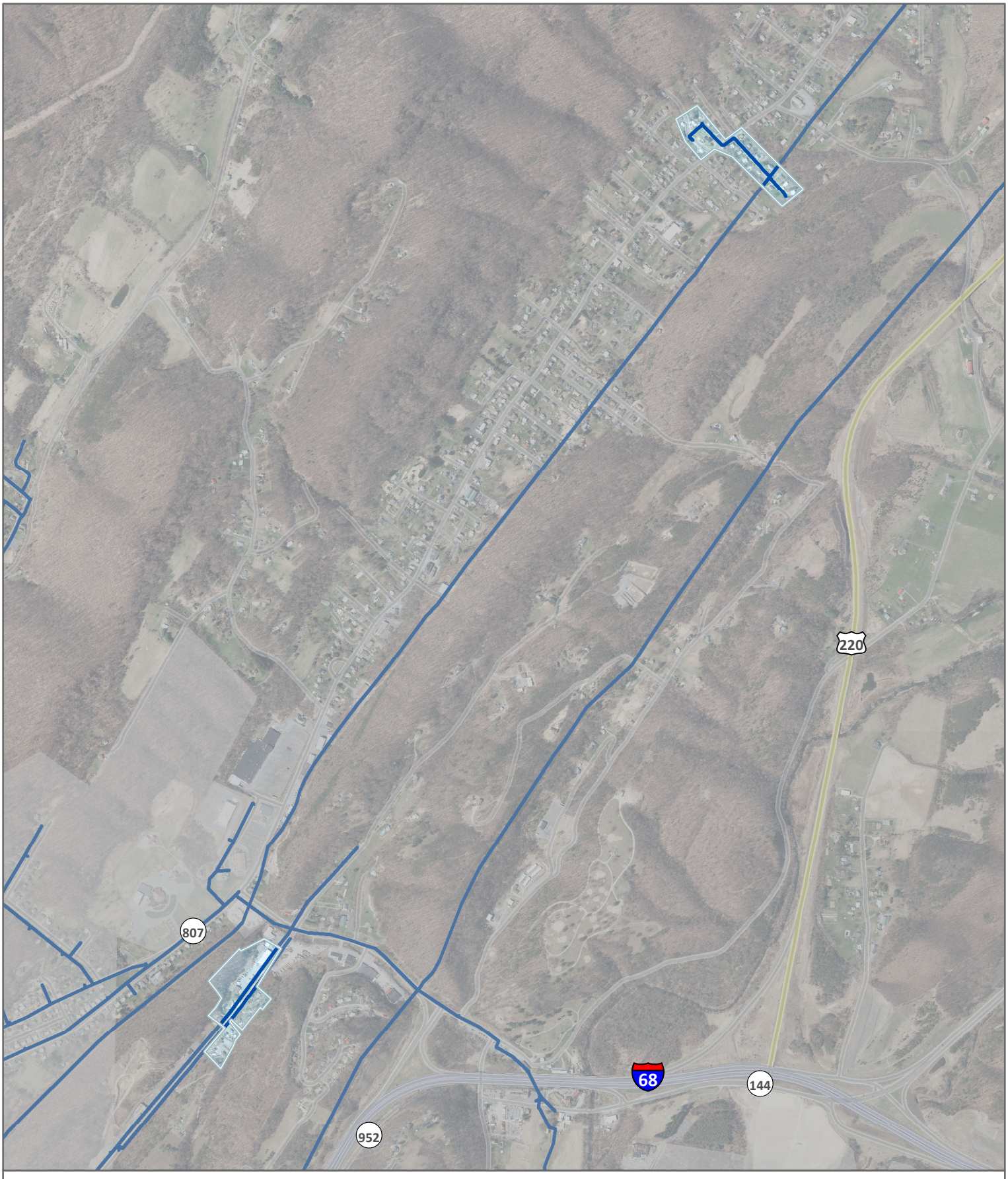
N

0 22,000 44,000 Feet

1 inch = 22,000 feet

SYSTEM
- Barrellville
- Bob Candy
- Broadwater Addition
- Evitts Creek
- Frostburg
- Georges Creek
- Green Ridge Boys Camp
- Keyser
- Little Orleans Campground
- Luke Mill
- Martins Mountain
- Midlothian
- Rawlings Heights
- Reckley Spring
- Rocky Gap
- Rocky Gap Mobile Home Park
- Savage River


SOMERSET
BEDFORD
35
36
PS
40
807
144
952
68
La Vale
Cumberland
639
51
Ridgeley
49
61
Maryland
Junction
220
MINERAL
Wiley
Ford
City of Cumberland
Water Service Area
N
0
6,200
12,400 Feet
WTP
Treatment Facility
Water Service Area
PS
Pump Station
Storage Tank
Future Service Areas
Water Line
Appendix 3.02



Bedford Road

Water Service Area

N

0 1,400 2,800 Feet

WTP Treatment Facility

Water Service Area

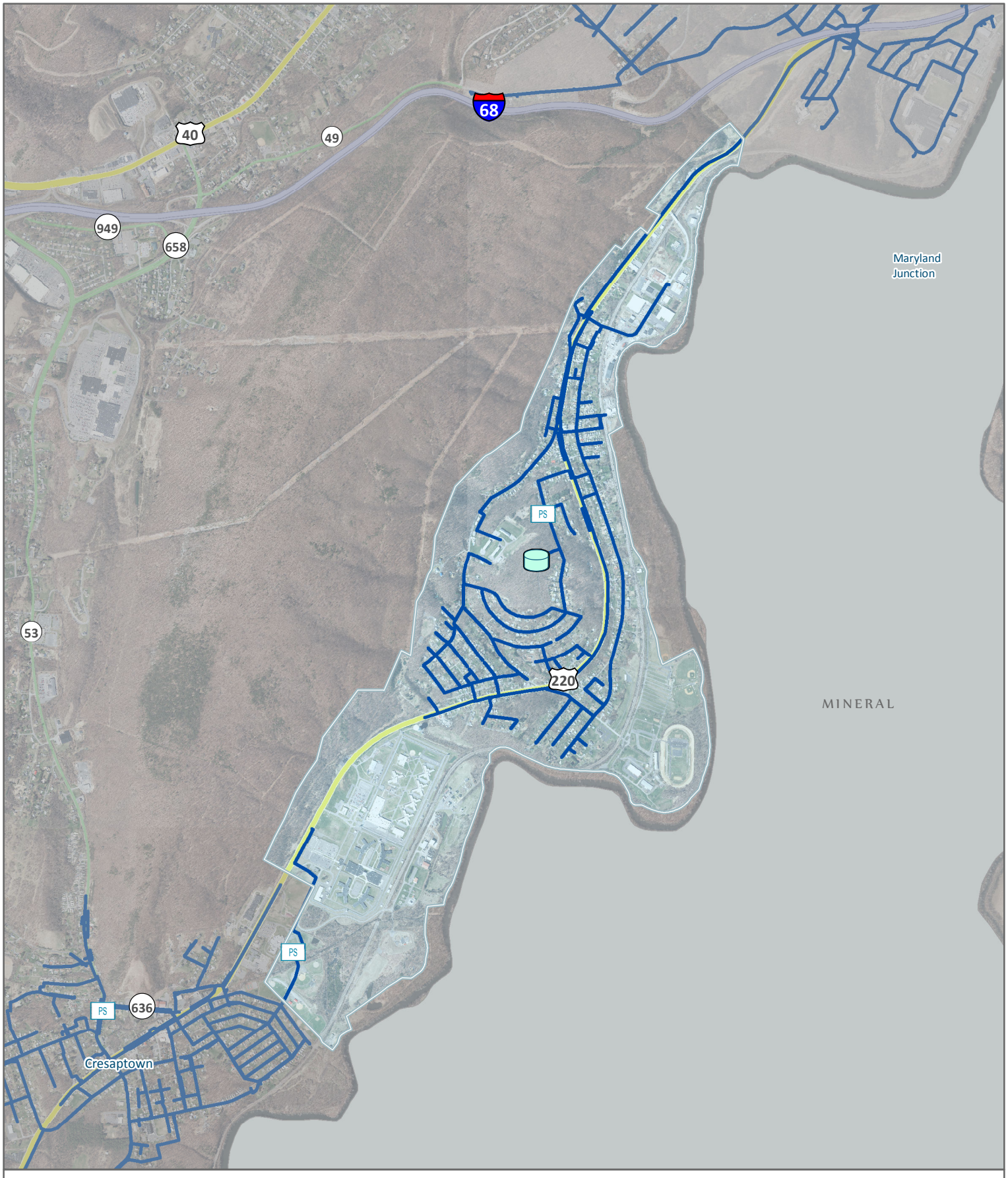
PS Pump Station

Storage Tank

Future Service Areas

Water Line

Appendix 3.03



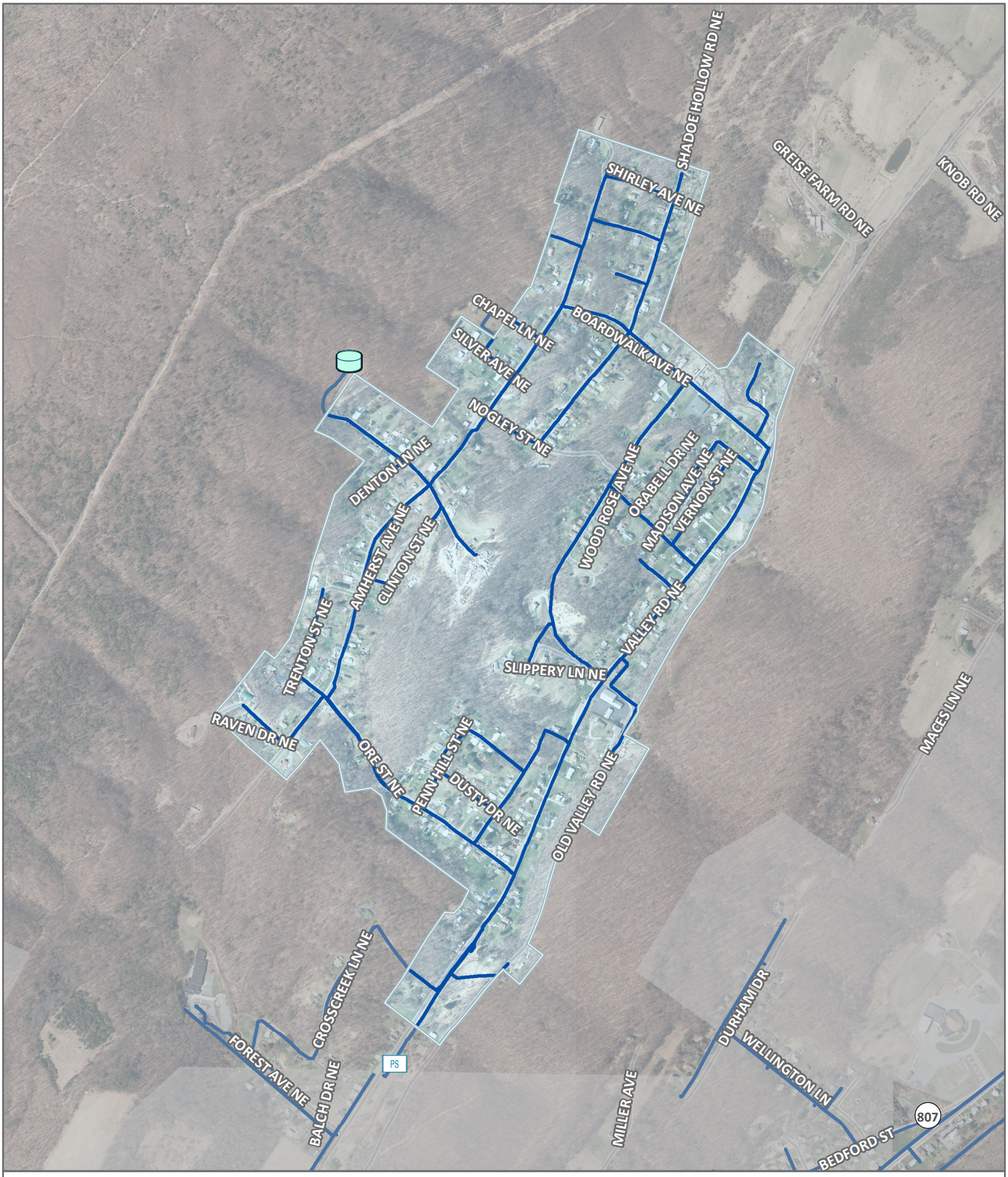
Bowling Green
Water Service Area

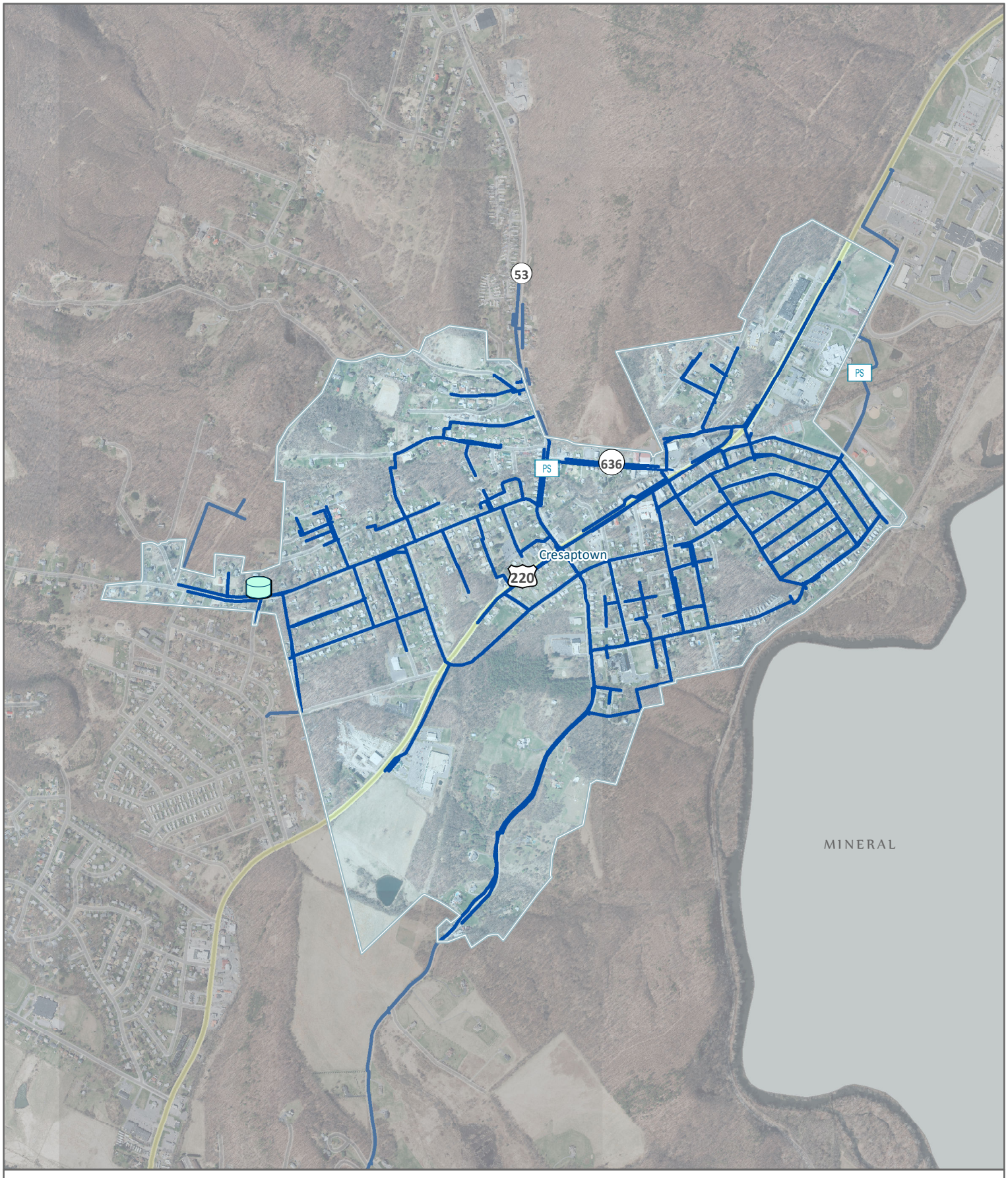
N

0 2,500 5,000 Feet

WTP Treatment Facility
Water Service Area
PS Pump Station
Storage Tank
Future Service Areas
Water Line

Appendix 3.04


SHADOE HOLLOW RD NE
GREISE FARM RD NE
KNOB RD NE
SHIRLEY AVE NE
CHAPEL LN NE
BOARDWALK AVE NE
SILVER AVE NE
NOGLEY ST NE
DENTON LN NE
WOOD ROSE AVE NE
ORABELL DR NE
MADISON AVE NE
VERNON ST NE
AMHERST AVE NE
CLINTON ST NE
TRENTON ST NE
VALLEY RD NE
SLIPPERY LN NE
RAVEN DR NE
ORE ST NE
PENN HILL ST NE
DUSTY DR NE
OLD VALLEY RD NE
MACES LN NE
CROSSCREEK LN NE
FOREST AVE NE
BALCH DR NE
PS
MILLER AVE
DURHAM DR
WELLINGTON LN
807
BEDFORD ST
Bowmans Addition
Water Service Area
N
0
1,000
2,000 Feet
WTP
Treatment Facility
Water Service Area
PS
Pump Station
Storage Tank
Future Service Areas
Water Line
Appendix 3.05


53
636
220
PS
PS
Cresaptown
MINERAL
Cresaptown
Water Service Area
N
0
1,500
3,000 Feet
WTP
Treatment Facility
Water Service Area
PS
Pump Station
Storage Tank
Future Service Areas
Water Line
Appendix 3.06

Corriganville/Ellerslie
Water Service Area

N

0 2,400 4,800 Feet

WTP Treatment Facility
Water Service Area
PS Pump Station
Storage Tank
Future Service Areas
Water Line

Appendix 3.07

Barton Business Park

Water Service Area

N

0 1,000 2,000 Feet

WTP Treatment Facility

Water Service Area

PS Pump Station

Storage Tank

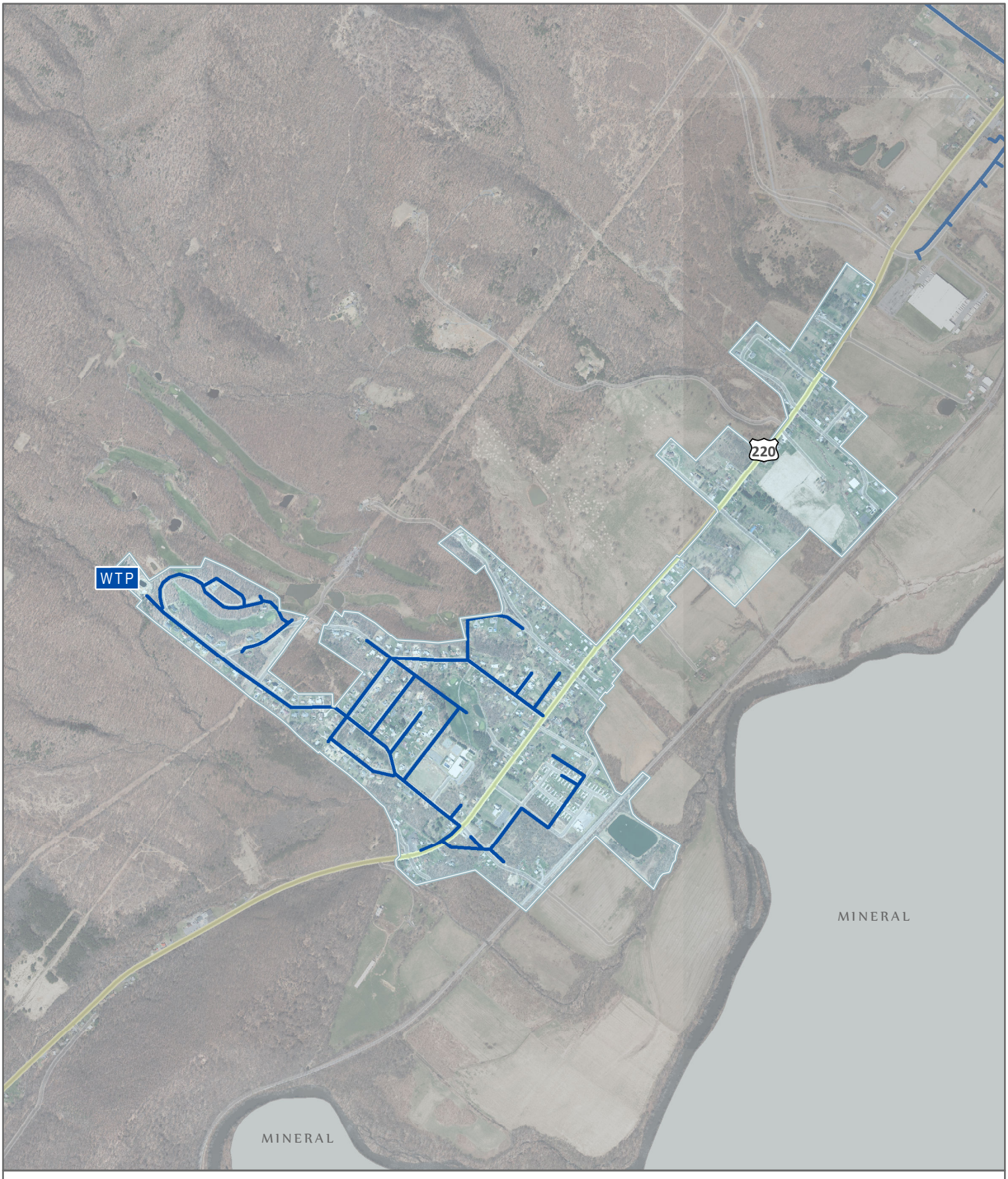
Future Service Areas

Water Line

Appendix 3.08


MINERAL
639
W3
61
51
MINERAL
PS
MINERAL
MINERAL
Oldtown Road
Water Service Area
N
0
3,000
6,000 Feet
WTP
Treatment Facility
Water Service Area
PS
Pump Station
Storage Tank
Future Service Areas
Water Line
Appendix 3.09


MINERAL
51
MINERAL
Mexico Farms
Water Service Area
N
0
1,500
3,000 Feet
WTP
Treatment Facility
Water Service Area
PS
Pump Station
Storage Tank
Future Service Areas
Water Line
Appendix 3.10



Rawlings

Water Service Area

N

0 1,800 3,600 Feet

WTP Treatment Facility

Water Service Area

PS Pump Station

Storage Tank

Future Service Areas

Water Line

Appendix 3.11

Pinto

Water Service Area

N

0 1,300 2,600 Feet

WTP Treatment Facility

Water Service Area

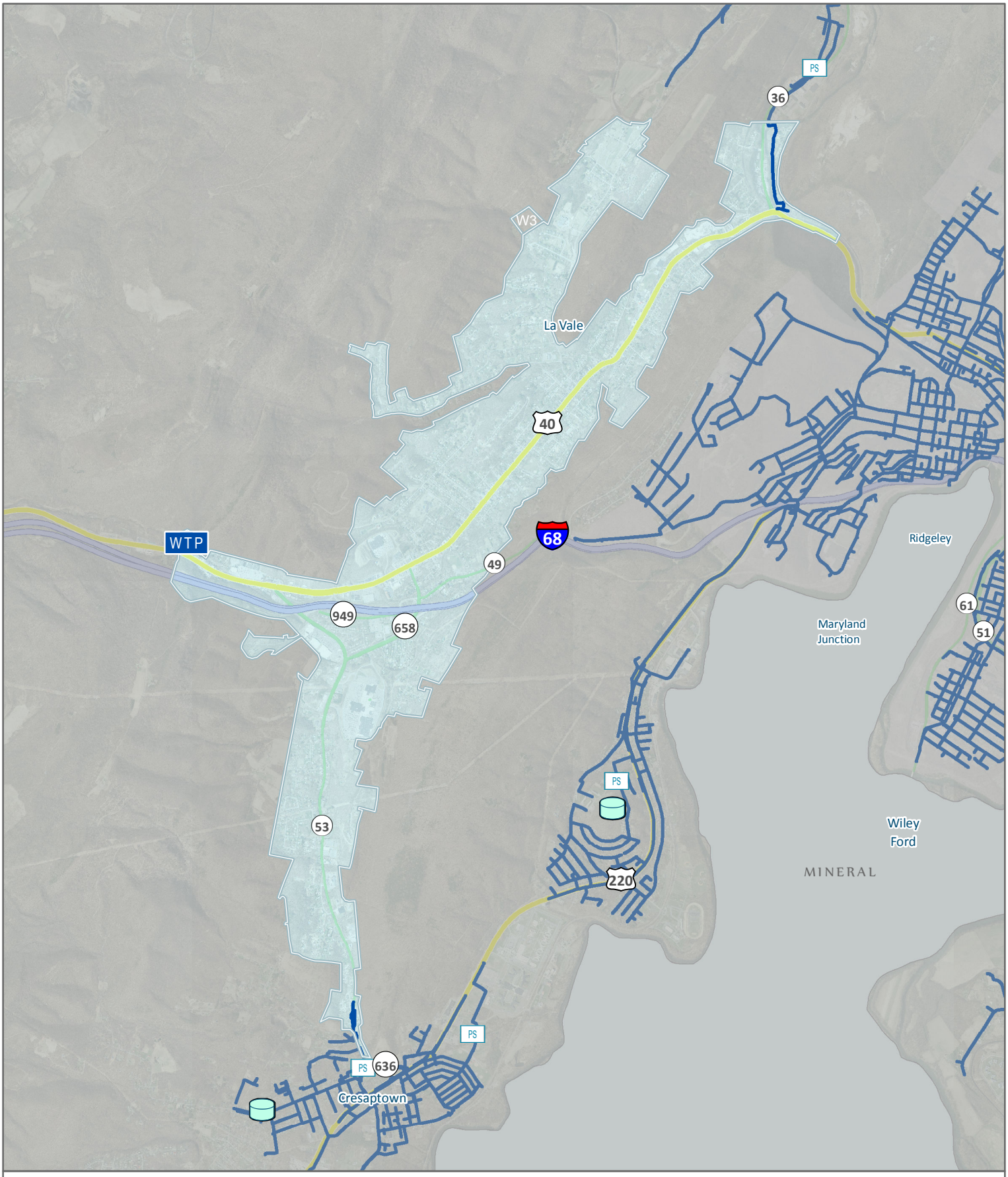
PS Pump Station

Storage Tank

Future Service Areas

Water Line

Appendix 3.12



LaVale

Water Service Area

N

0 4,500 9,000 Feet

WTP Treatment Facility

Water Service Area

PS Pump Station

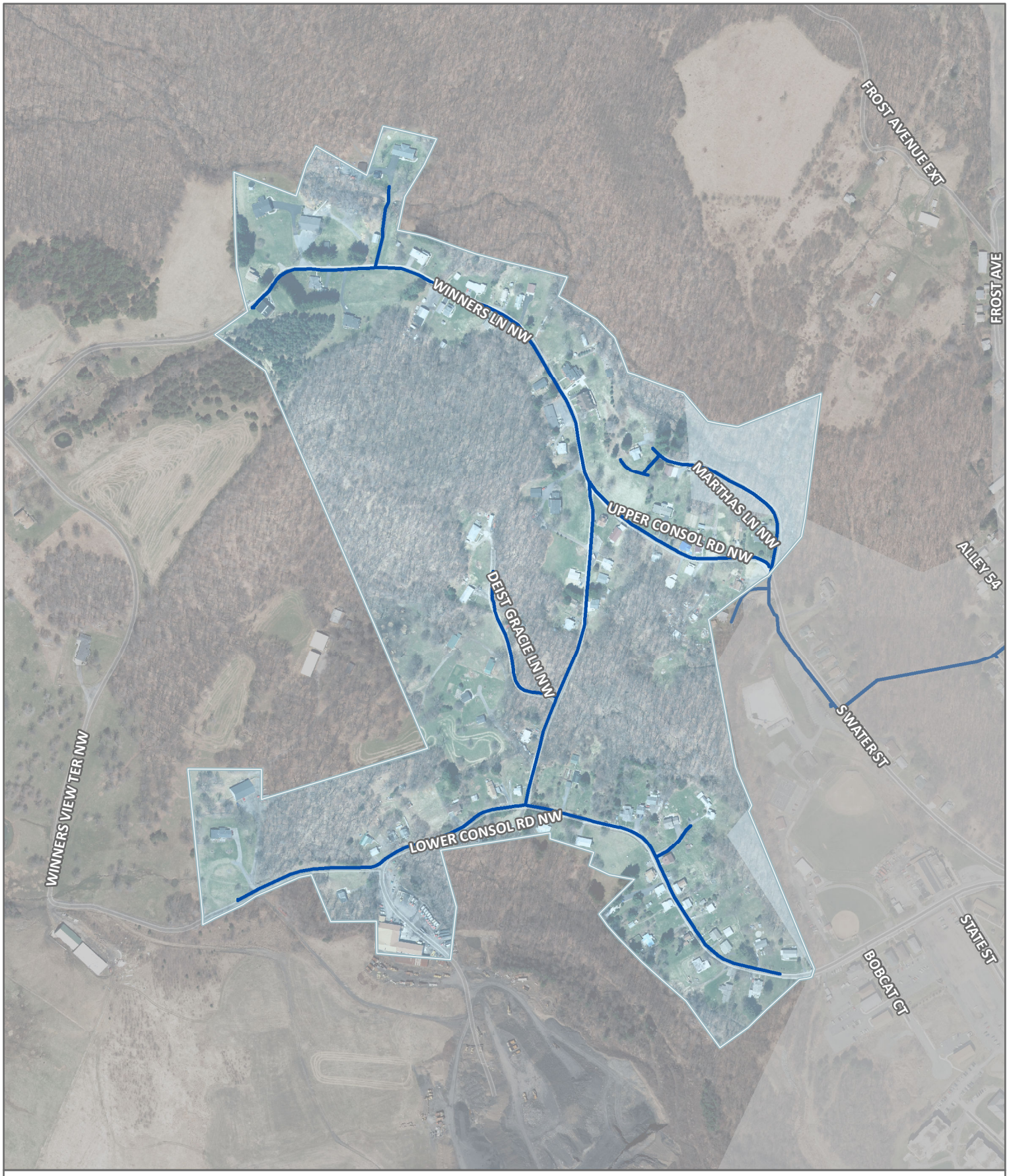
Storage Tank

Future Service Areas

Water Line

Appendix 3.13


GARRETT
WTP
W5
36
638
Frostburg
40
WTP
743
W3
736
W5
W5
W4
68
936
55
City of Frostburg
Water Service Area
N
0
3,100
6,200 Feet
WTP Treatment Facility
Water Service Area
PS Pump Station
Storage Tank
Future Service Areas
Water Line
Appendix 3.14



Consol
Water Service Area

N

0 560 1,120 Feet

WTP Treatment Facility

Water Service Area

PS Pump Station

Storage Tank

Future Service Areas

Water Line

Appendix 3.15

Carlos/Shaft/Klondike

Water Service Area

N

0 2,300 4,600 Feet

WTP Treatment Facility

Water Service Area

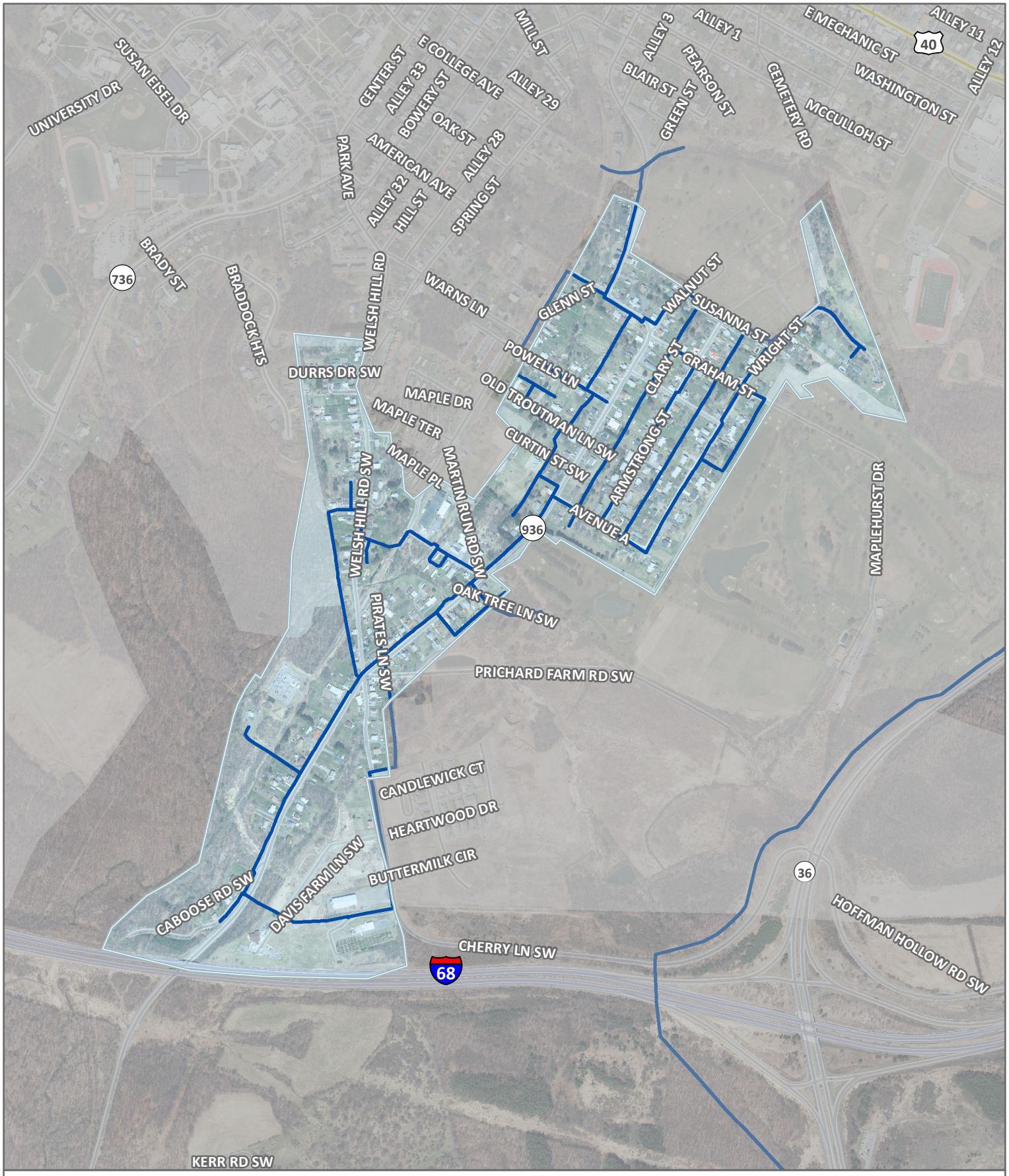
PS Pump Station

Storage Tank

Future Service Areas

Water Line

Appendix 3.16


Grahamtown
Water Service Area
N
0
1,000
2,000 Feet
WTP Treatment Facility
Water Service Area
PS Pump Station
Storage Tank
Future Service Areas
Water Line
Appendix 3.17
UNIVERSITY DR
SUSAN EISEL DR
CENTER ST
E COLLEGE AVE
MILL ST
ALLEY 33
BOWERY ST
ALLEY 29
ALLEY 3
ALLEY 1
BLAIR ST
PEARSON ST
GREEN ST
E MECHANIC ST
ALLEY 11
ALLEY 12
WASHINGTON ST
CEMETERY RD
MCCULLOH ST
OAK ST
ALLEY 28
PARK AVE
AMERICAN AVE
ALLEY 32
HILL ST
SPRING ST
BRADY ST
BRADDOCK HTS
WELSH HILL RD
WARNS LN
GLENN ST
WALNUT ST
SUSANNA ST
WRIGHT ST
POWELLS LN
CLARY ST
GRAHAM ST
DURRS DR SW
MAPLE DR
MAPLE TER
OLD TROUTMAN LN SW
CURTIN ST SW
ARMSTRONG ST
MAPLE PL
MARTIN RUN RD SW
AVENUE A
MAPLEHURST DR
WELSH HILL RD SW
OAK TREE LN SW
PIRATES LN SW
PRICHARD FARM RD SW
CANDLEWICK CT
HEARTWOOD DR
BUTTERMILK CIR
DAVIS FARM LN SW
CABOOSE RD SW
CHERRY LN SW
HOFFMAN HOLLOW RD SW
KERR RD SW
736
936
40
36
68

Hoffman

Water Service Area

N

0 340 680 Feet

WTP Treatment Facility

Water Service Area

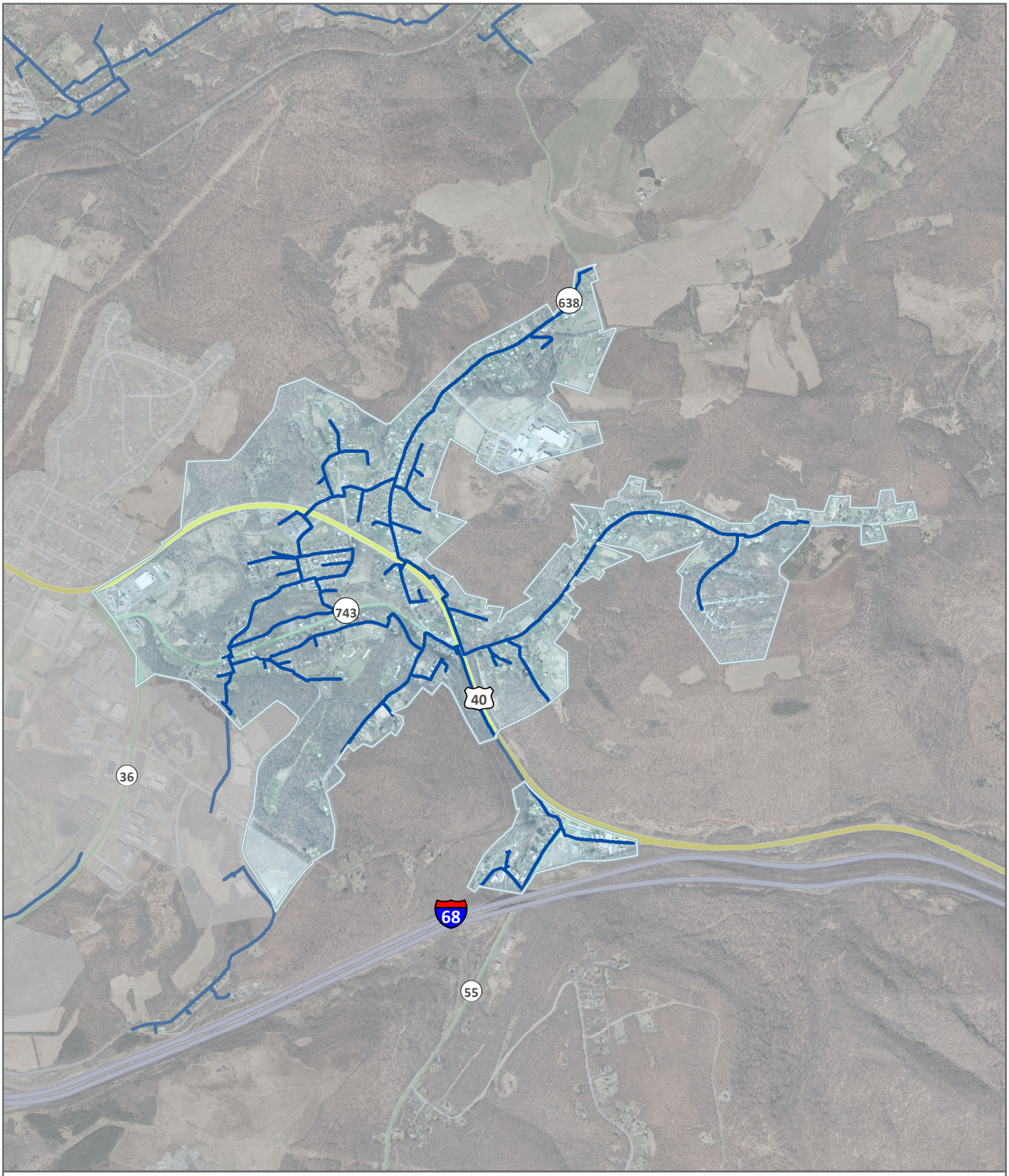
PS Pump Station

Storage Tank

Future Service Areas

Water Line

Appendix 3.18



Eckhart/Clarysville
Water Service Area

N

0 1,900 3,800 Feet

WTP Treatment Facility
Water Service Area
PS Pump Station
Storage Tank
Future Service Areas
Water Line

Appendix 3.19

Route 36/Vale Summit

Water Service Area

N

0 2,000 4,000 Feet

WTP Treatment Facility

Water Service Area

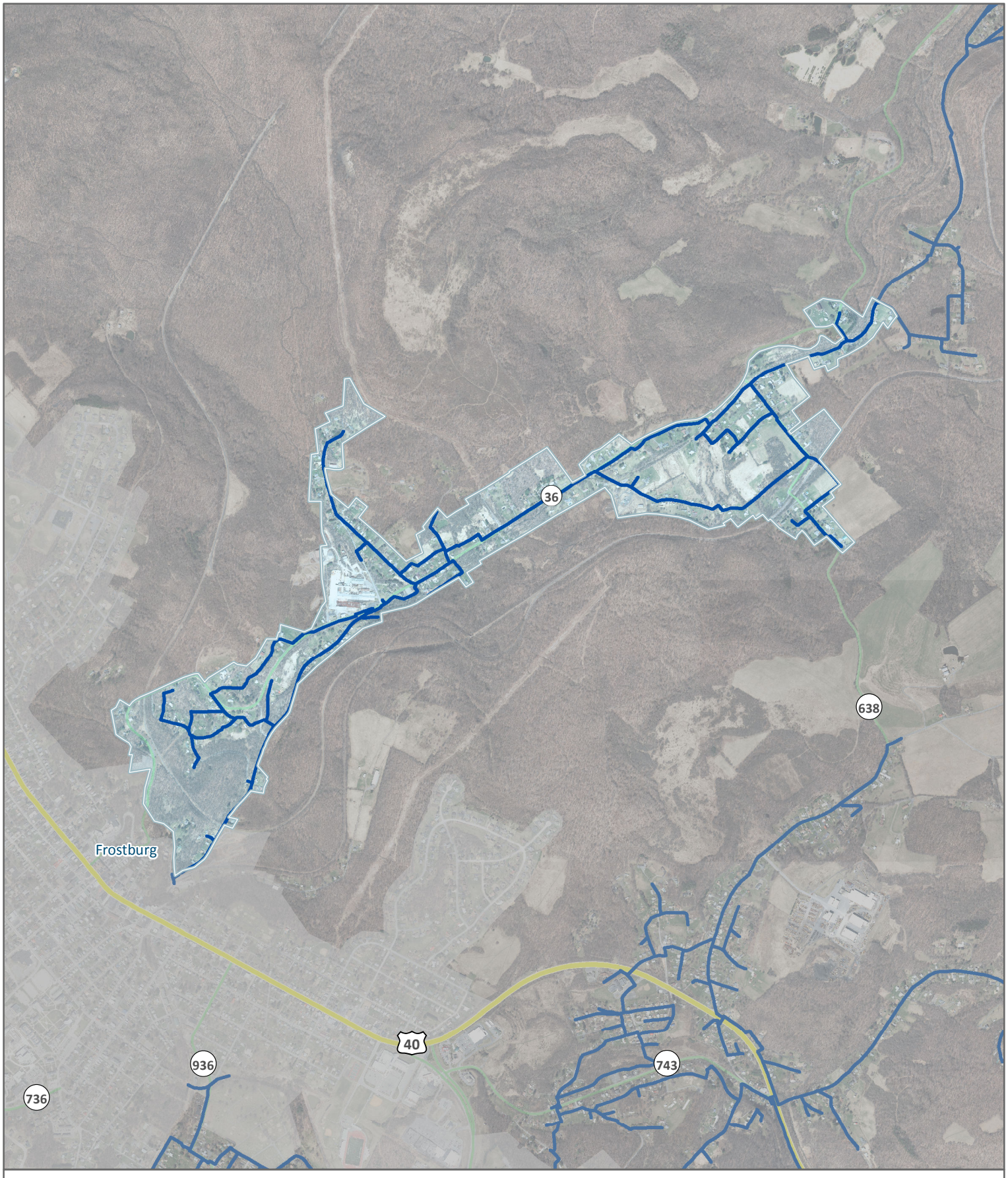
PS Pump Station

Storage Tank

Future Service Areas

Water Line

Appendix 3.20



Borden/Zihlman/Morantown/Slabtown

Water Service Area

N

0 2,000 4,000 Feet

WTP Treatment Facility

Water Service Area

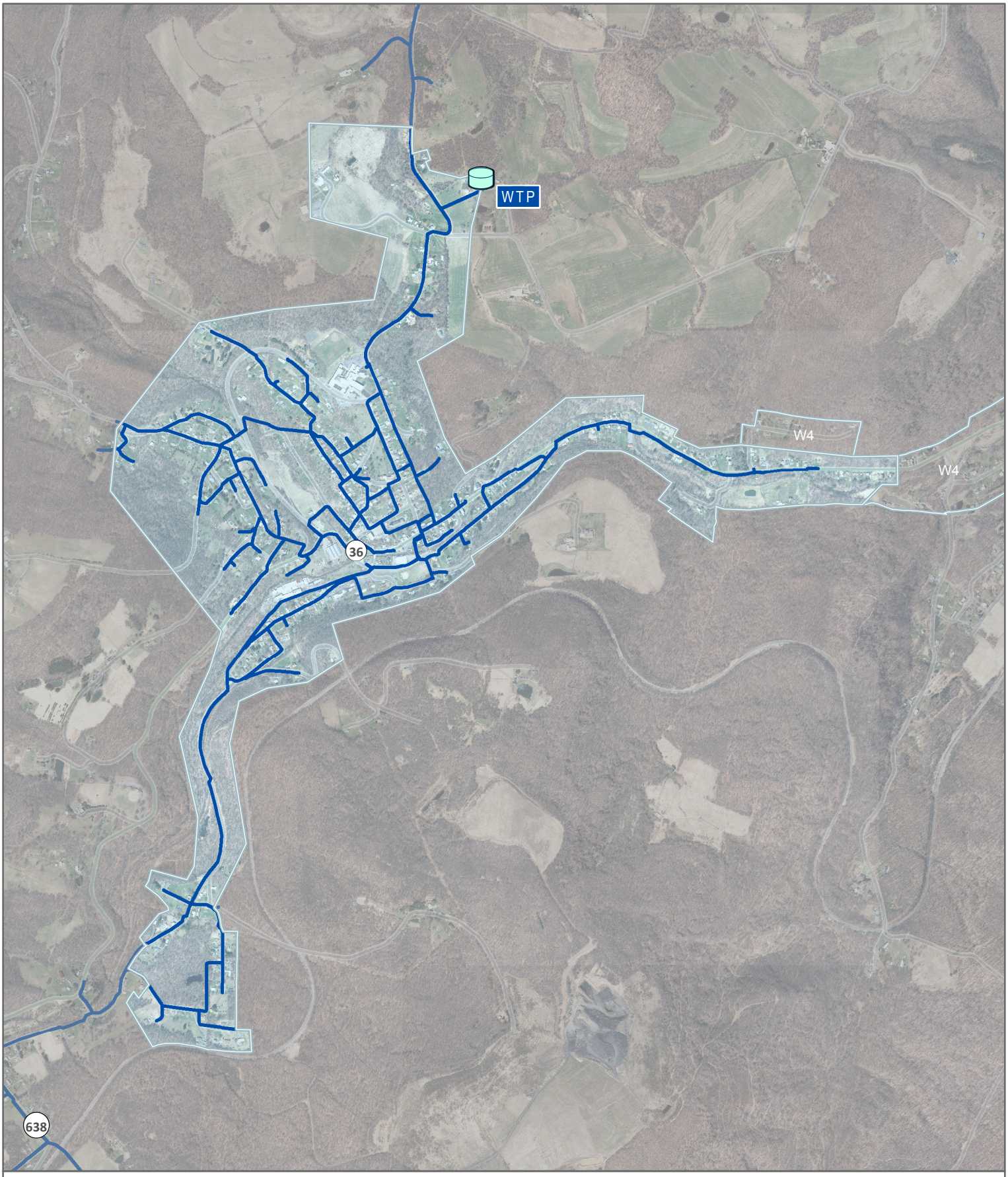
PS Pump Station

Storage Tank

Future Service Areas

Water Line

Appendix 3.21



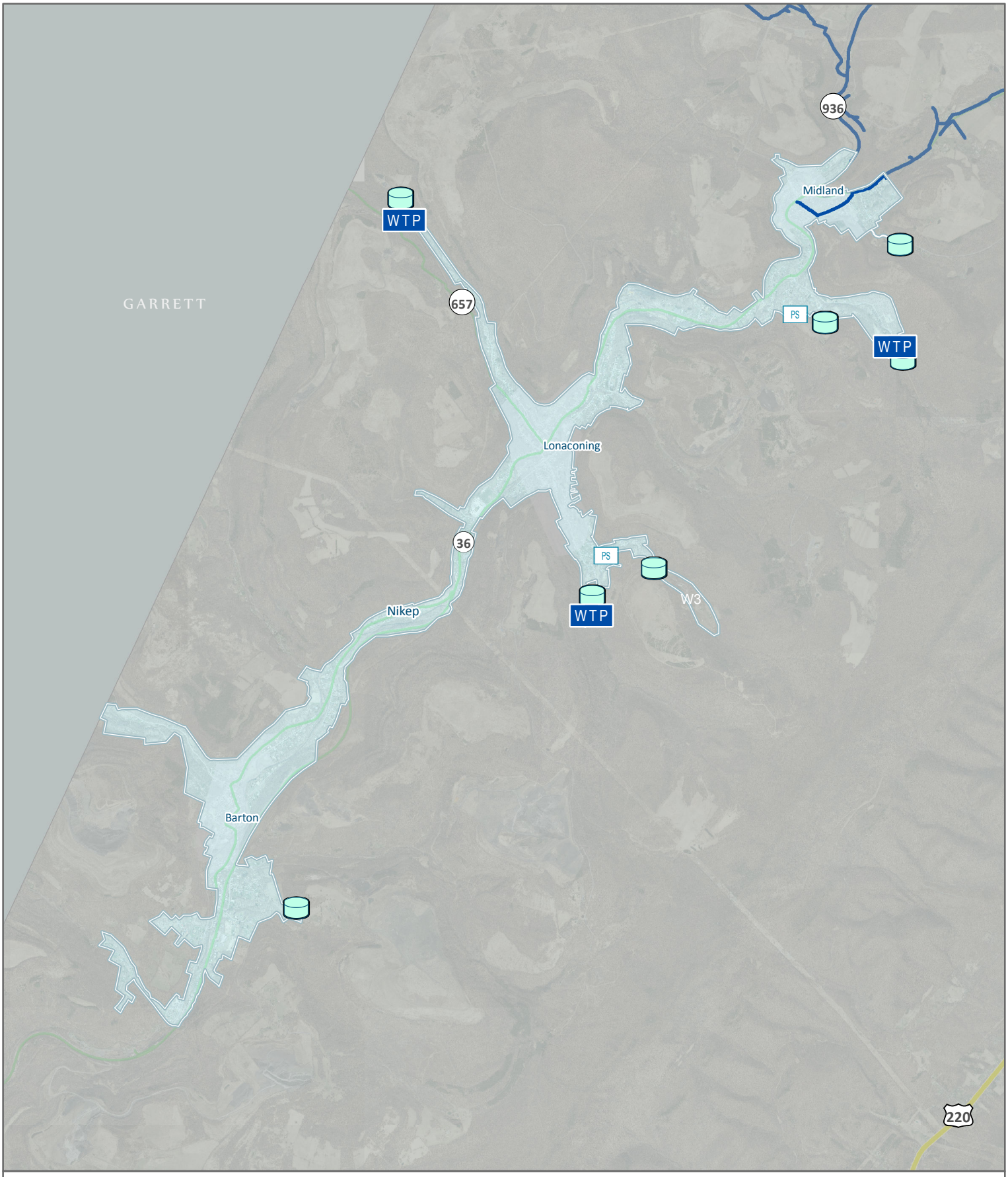
Mount Savage
Water Service Area

N

0 1,800 3,600 Feet

WTP Treatment Facility
Water Service Area
PS Pump Station
Storage Tank
Future Service Areas
Water Line

Appendix 3.22


GARRETT
936
Midland
WTP
657
PS
WTP
Lonaconing
36
PS
W3
WTP
Nikep
Barton
220
Georges Creek
Water Service Area
N
0
4,800
9,600 Feet
WTP
Treatment Facility
Water Service Area
PS
Pump Station
Storage Tank
Future Service Areas
Water Line
Appendix 3.23

Westernport

Water Service Area

N

0 1,800 3,600 Feet

WTP Treatment Facility

Water Service Area

PS Pump Station

Storage Tank

Future Service Areas

Water Line

Appendix 3.24

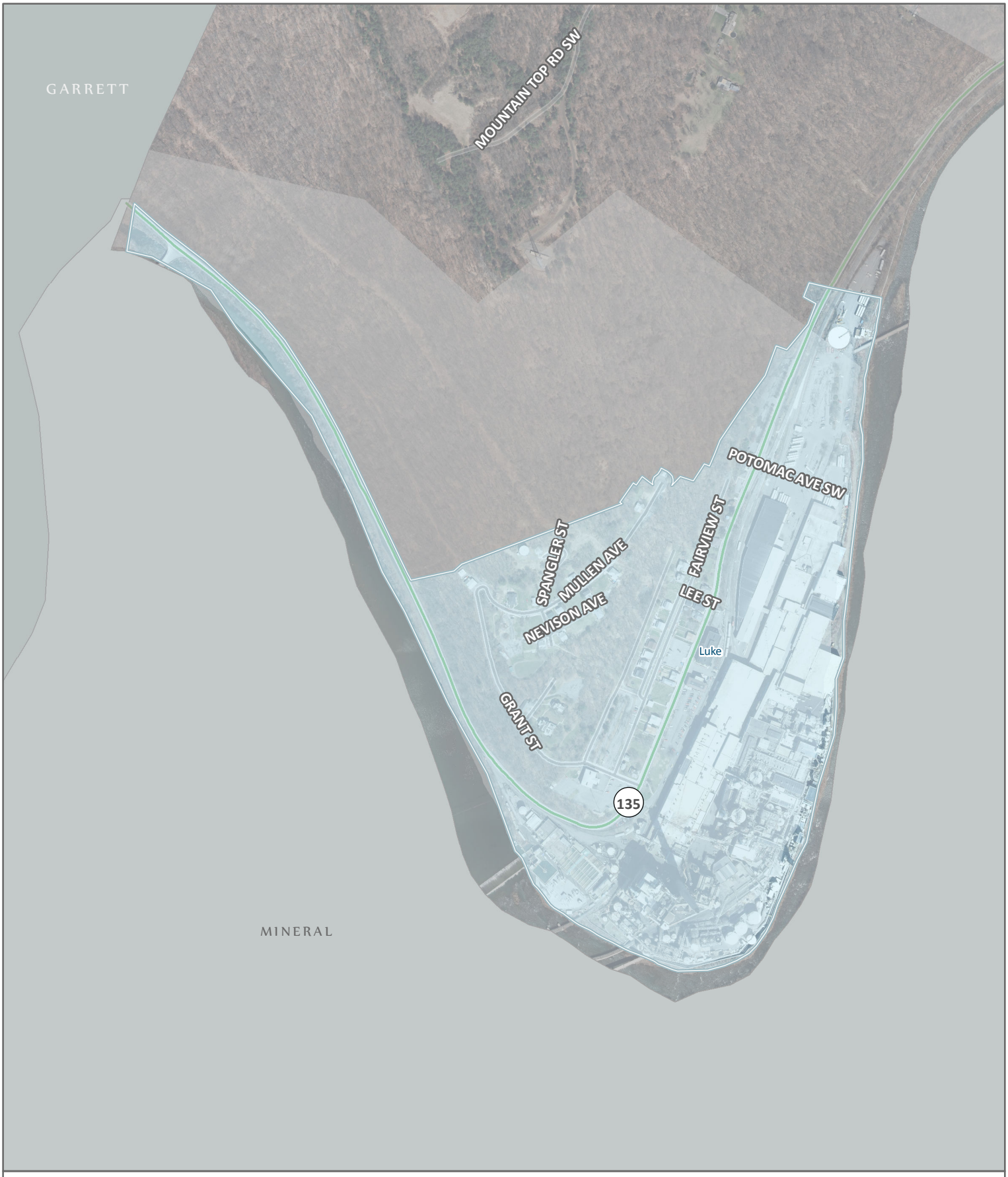
Franklin/Brophytown
Water Service Area

N

0 230 460 Feet

WTP Treatment Facility
Water Service Area
PS Pump Station
Storage Tank
Future Service Areas
Water Line

Appendix 3.25



Luke Mill

Water Service Area

N

0 670 1,340 Feet

WTP Treatment Facility

Water Service Area

PS Pump Station

Storage Tank

Future Service Areas

Water Line

Appendix 3.26

McCoole

Water Service Area

N

0 3,100 6,200 Feet

WTP Treatment Facility

Water Service Area

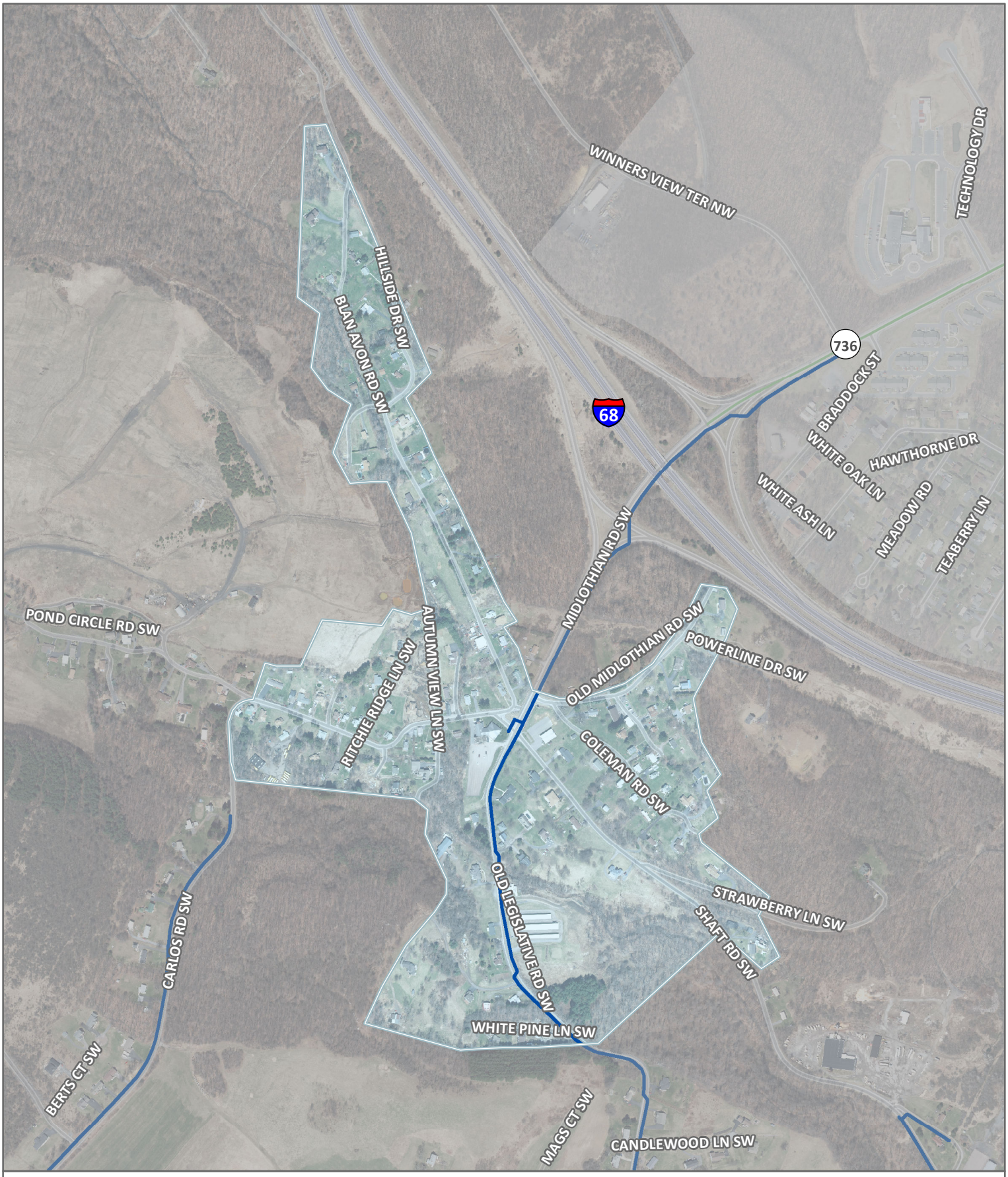
PS Pump Station

Storage Tank

Future Service Areas

Water Line

Appendix 3.27



Midlothian
Water Service Area

N

0 790 1,580 Feet

WTP Treatment Facility
Water Service Area
PS Pump Station
Storage Tank
Future Service Areas
Water Line

Appendix 3.28

Broadwater Addition

Water Service Area

N

0 110 220 Feet

WTP Treatment Facility

Water Service Area

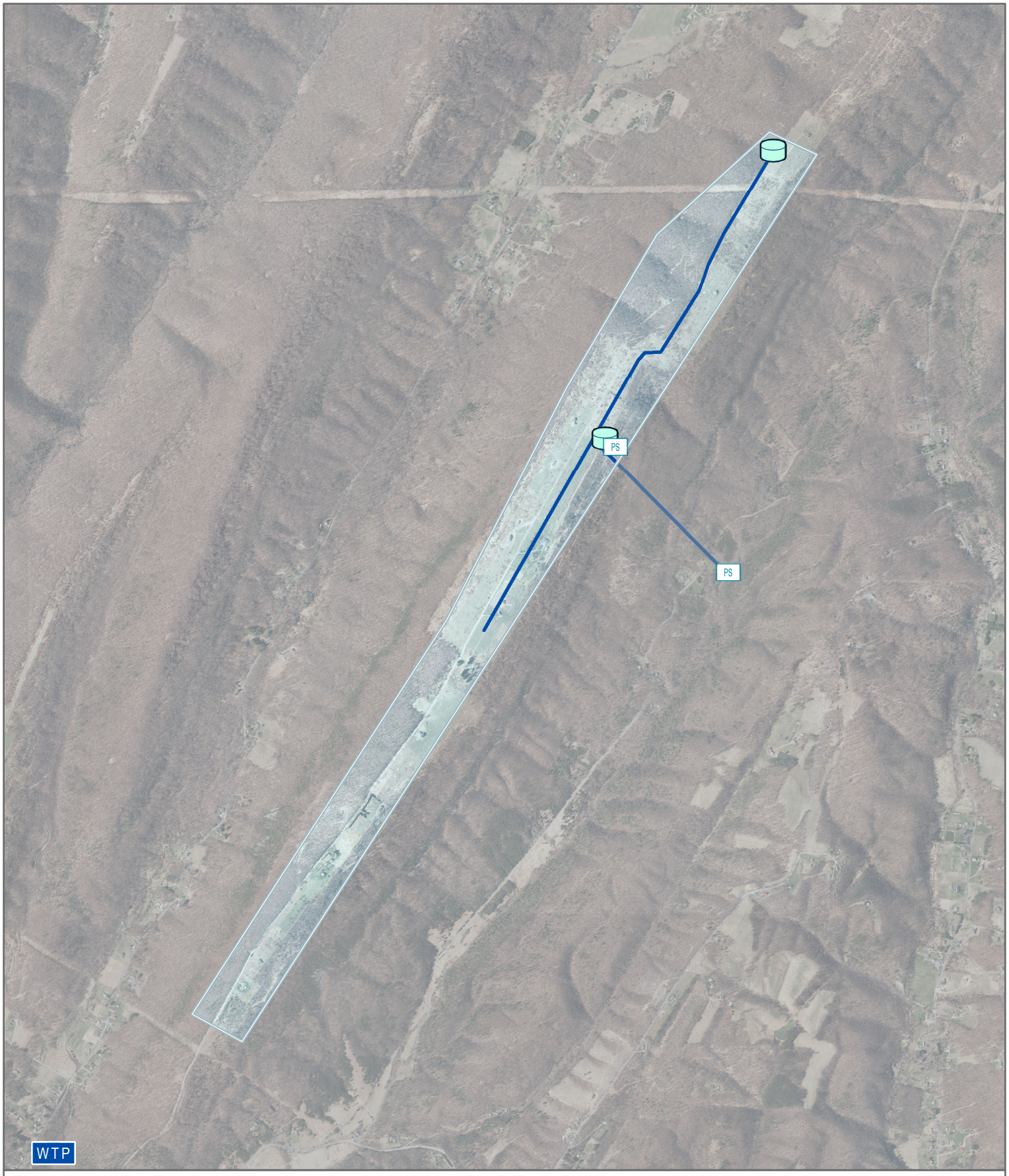
PS Pump Station

Storage Tank

Future Service Areas

Water Line

Appendix 3.29



Martins Mountain
Water Service Area

N

0 2,100 4,200 Feet

WTP Treatment Facility
Water Service Area
PS Pump Station
Storage Tank
Future Service Areas
Water Line

Appendix 3.30

Reckley Spring

Water Service Area

N

0 1,500 3,000 Feet

WTP Treatment Facility

Water Service Area

PS Pump Station

Storage Tank

Future Service Areas

Water Line

Appendix 3.31

Barrellville

Water Service Area

N

0 460 920 Feet

WTP Treatment Facility

Water Service Area

PS Pump Station

Storage Tank

Future Service Areas

Water Line

Appendix 3.32

K of C

Water Service Area

N

0 230 460 Feet

WTP Treatment Facility

Water Service Area

PS Pump Station

Storage Tank

Future Service Areas

Water Line

Appendix 3.33

Rocky Gap Mobile Home Park

Water Service Area

N

0 110 220 Feet

WTP Treatment Facility

Water Service Area

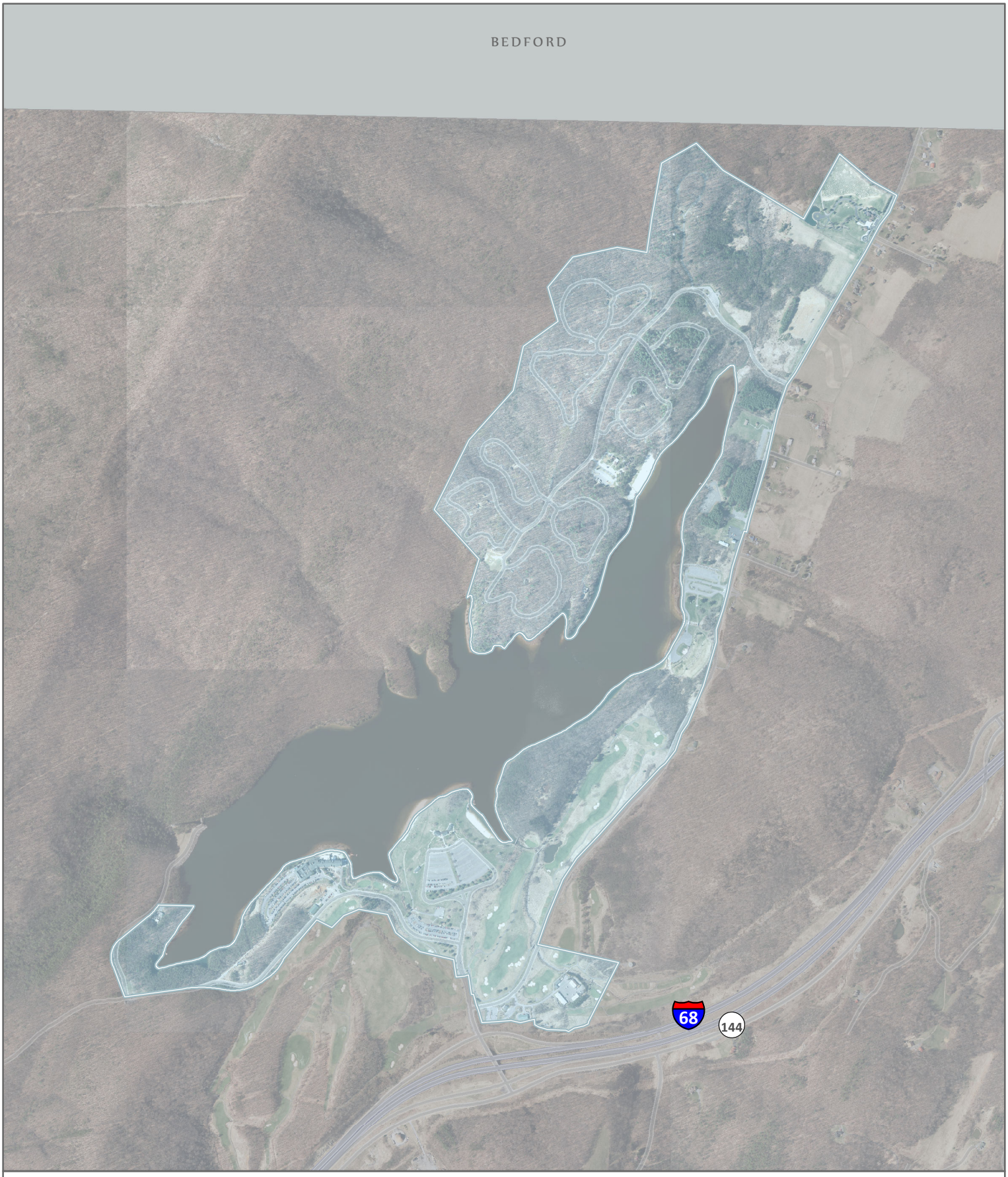
PS Pump Station

Storage Tank

Future Service Areas

Water Line

Appendix 3.34



Rocky Gap
Water Service Area

N

0 1,500 3,000 Feet

WTP Treatment Facility
Water Service Area
PS Pump Station
Storage Tank
Future Service Areas
Water Line

Appendix 3.35

Green Ridge Boys Camp

Water Service Area

N

0 230 460 Feet

WTP Treatment Facility

Water Service Area

PS Pump Station

Storage Tank

Future Service Areas

Water Line

Appendix 3.36

Little Orleans Campground

Water Service Area

N

0 340 680 Feet

WTP Treatment Facility

Water Service Area

PS Pump Station

Storage Tank

Future Service Areas

Water Line

Appendix 3.37

Dan's Mountain State Park

Water Service Area

N

0 340 680 Feet

WTP Treatment Facility

Water Service Area

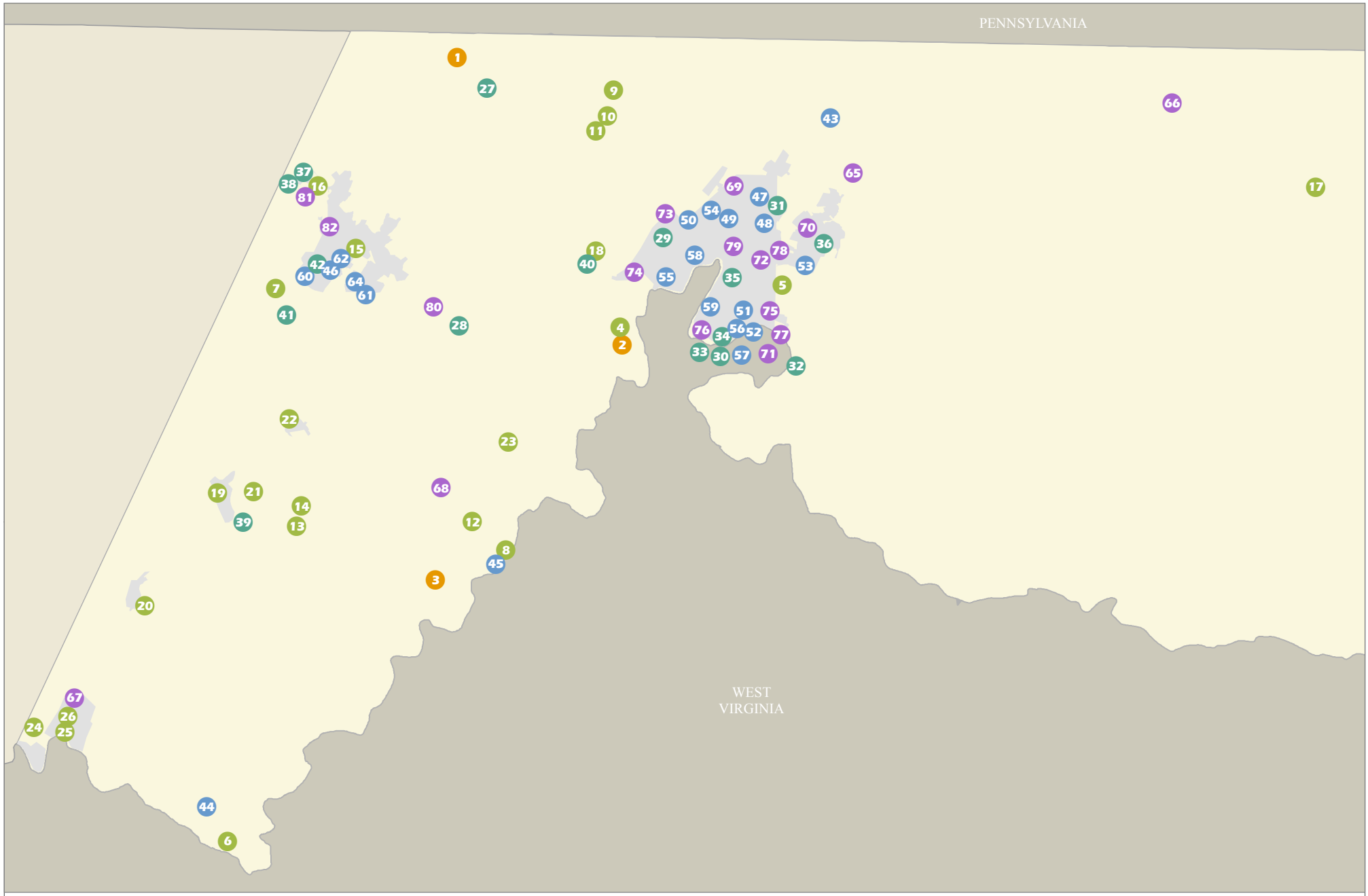
PS Pump Station

Storage Tank

Future Service Areas

Water Line

Appendix 3.38



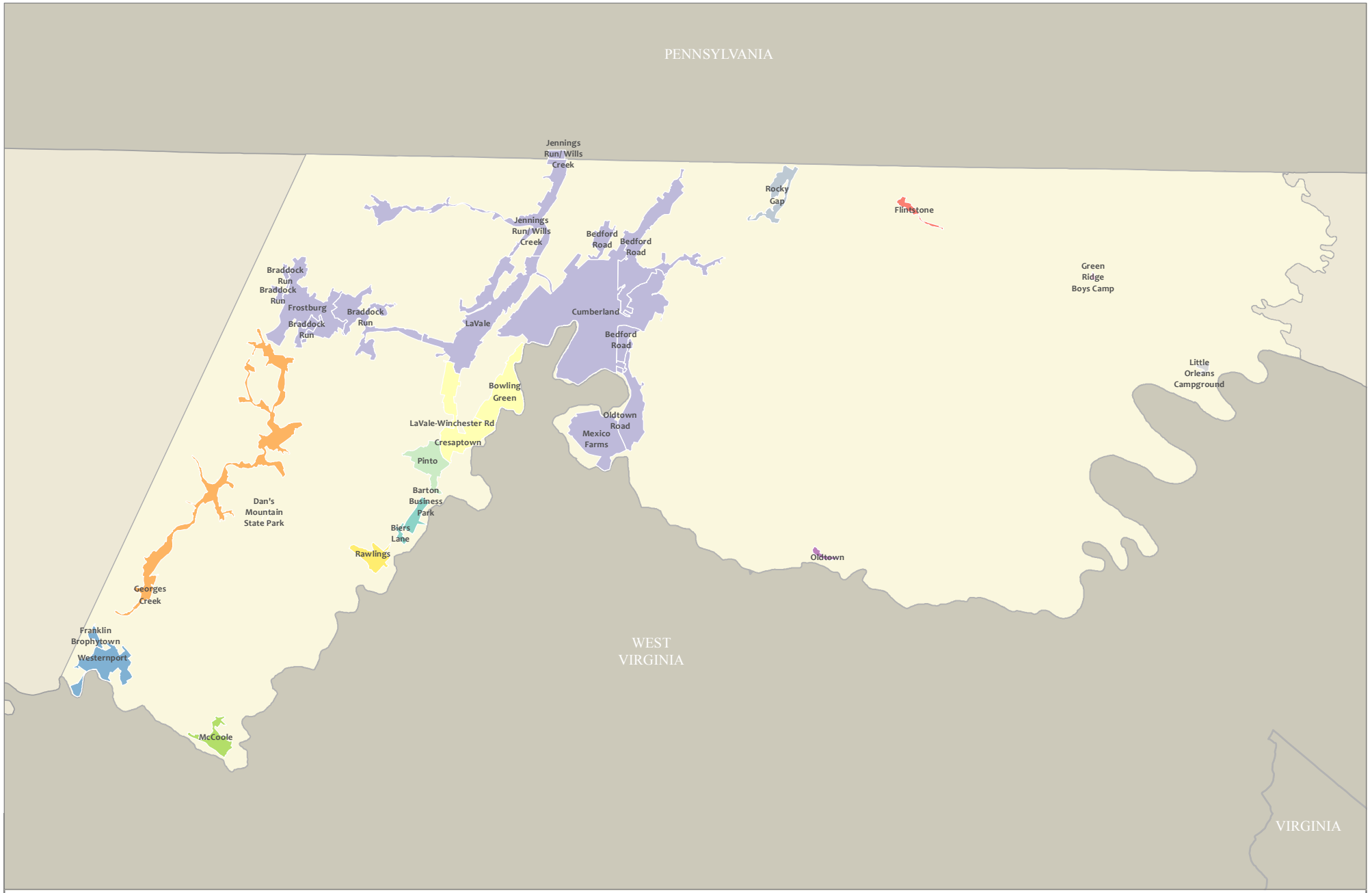
Planned County Water Service Projects
Appendix 3.39

0 15,000 30,000 Feet

1 inch = 16,000 feet

N

Category
W-1
W-2
W-3
W-4
W-5



Sewer Service Areas
Appendix 4.01

N

0 22,000 44,000 Feet

1 inch = 22,000 feet

System

- Barton Business Park
- Celanese
- Cumberland
- Flintstone
- Georges Creek
- Green Ridge Boys Camp
- Little Orleans Campground
- McCoole
- Oldtown
- Pinto
- Rawlings
- Rocky Gap
- Upper Potomac

Cumberland
Sewer Service Area

N

0 4,600 9,200 Feet

Outfall
PS Pump Station
WWTP Wastewater Treatment Plant
Sewer Service Area
Sewer Line

Appendix 4.02

LaVale

Sewer Service Area

N

0 3,200 6,400 Feet

Outfall

PS Pump Station

WWTP Wastewater Treatment Plant

Sewer Service Area

Future Service Area

Sewer Line

Appendix 4.03

Frostburg

Sewer Service Area

N

0 2,200 4,400 Feet

Outfall

PS Pump Station

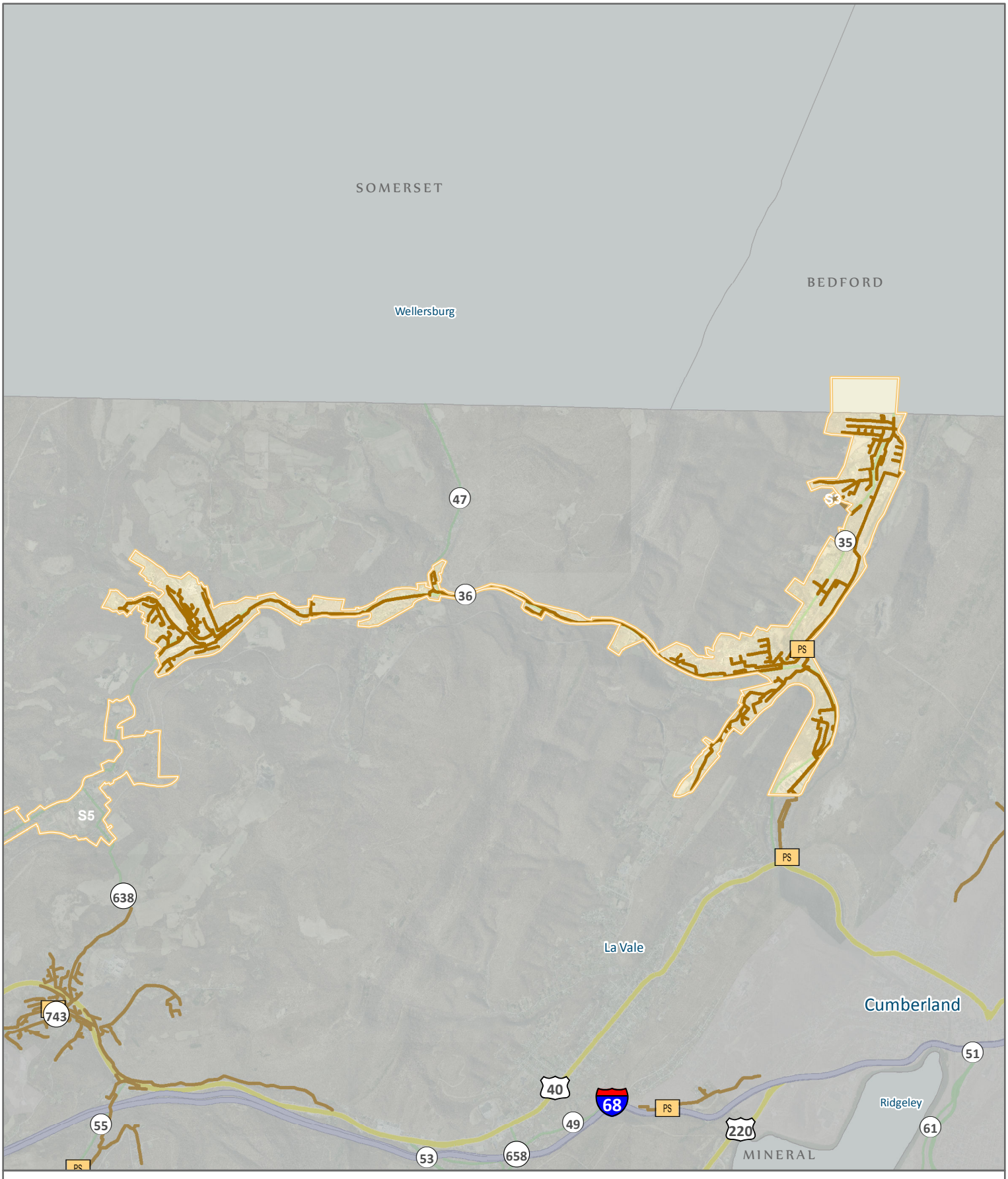
WWTP Wastewater Treatment Plant

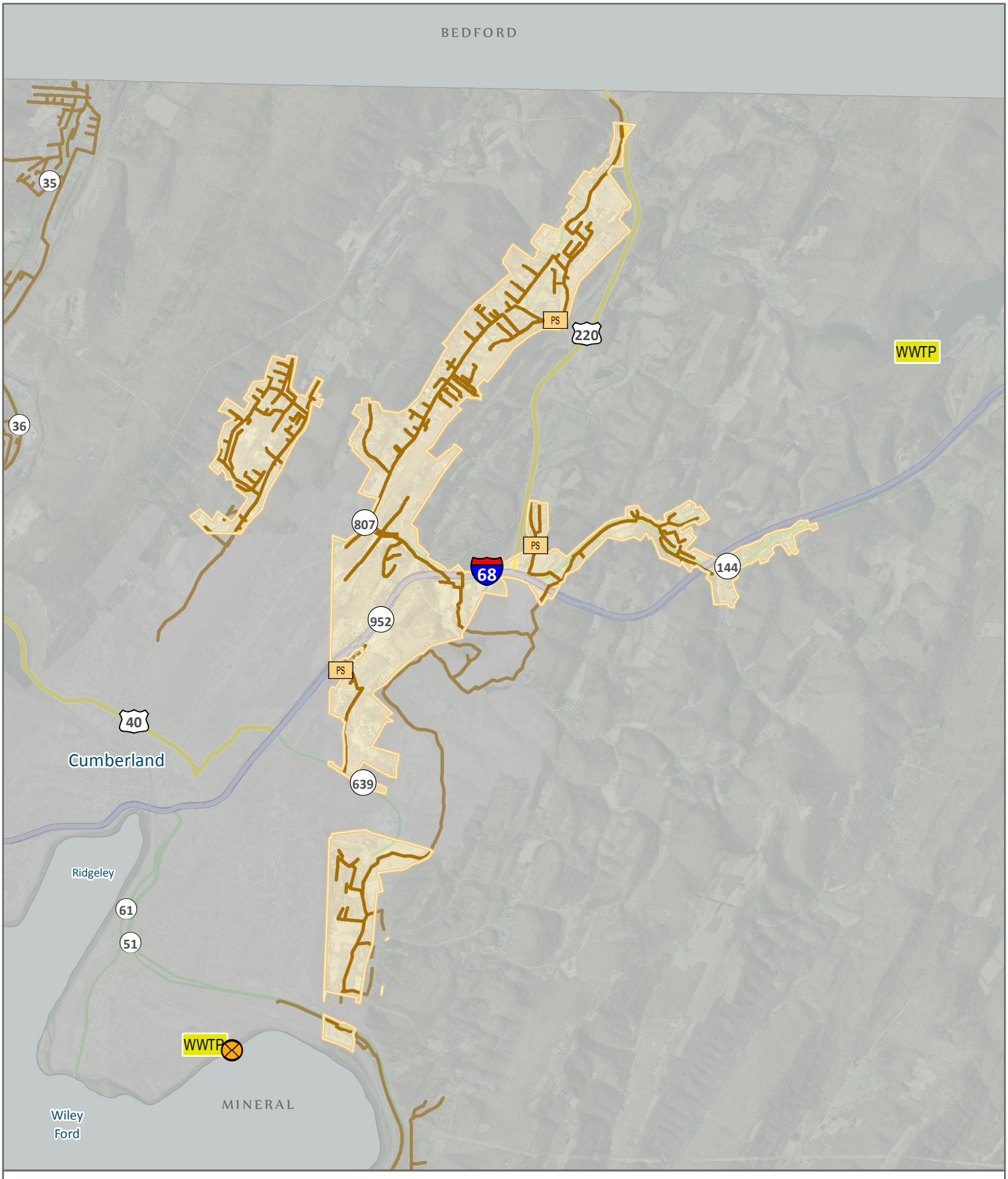
Sewer Service Area

Future Service Area

Sewer Line

Appendix 4.04


SOMERSET
BEDFORD
Wellersburg
47
36
35
PS
S5
638
La Vale
743
Cumberland
51
40
68
PS
49
220
Ridgeley
61
55
53
658
MINERAL
Jennings Run/ Wills Creek
Sewer Service Area
N
0
5,300
10,600 Feet
Outfall
PS
Pump Station
WWTP
Wastewater Treatment Plant
Sewer Service Area
Future Service Area
Sewer Line
Appendix 4.05



Bedford Road
Sewer Service Area

N

0 4,700 9,400 Feet

Outfall
PS Pump Station
WWTP Wastewater Treatment Plant
Sewer Service Area
Sewer Line

Appendix 4.06

Oldtown Road
Sewer Service Area

N

0 2,600 5,200 Feet

Outfall
PS Pump Station
WWTP Wastewater Treatment Plant
Sewer Service Area
Sewer Line

Appendix 4.07

Mexico Farms

Sewer Service Area

N

0 1,600 3,200 Feet

Outfall

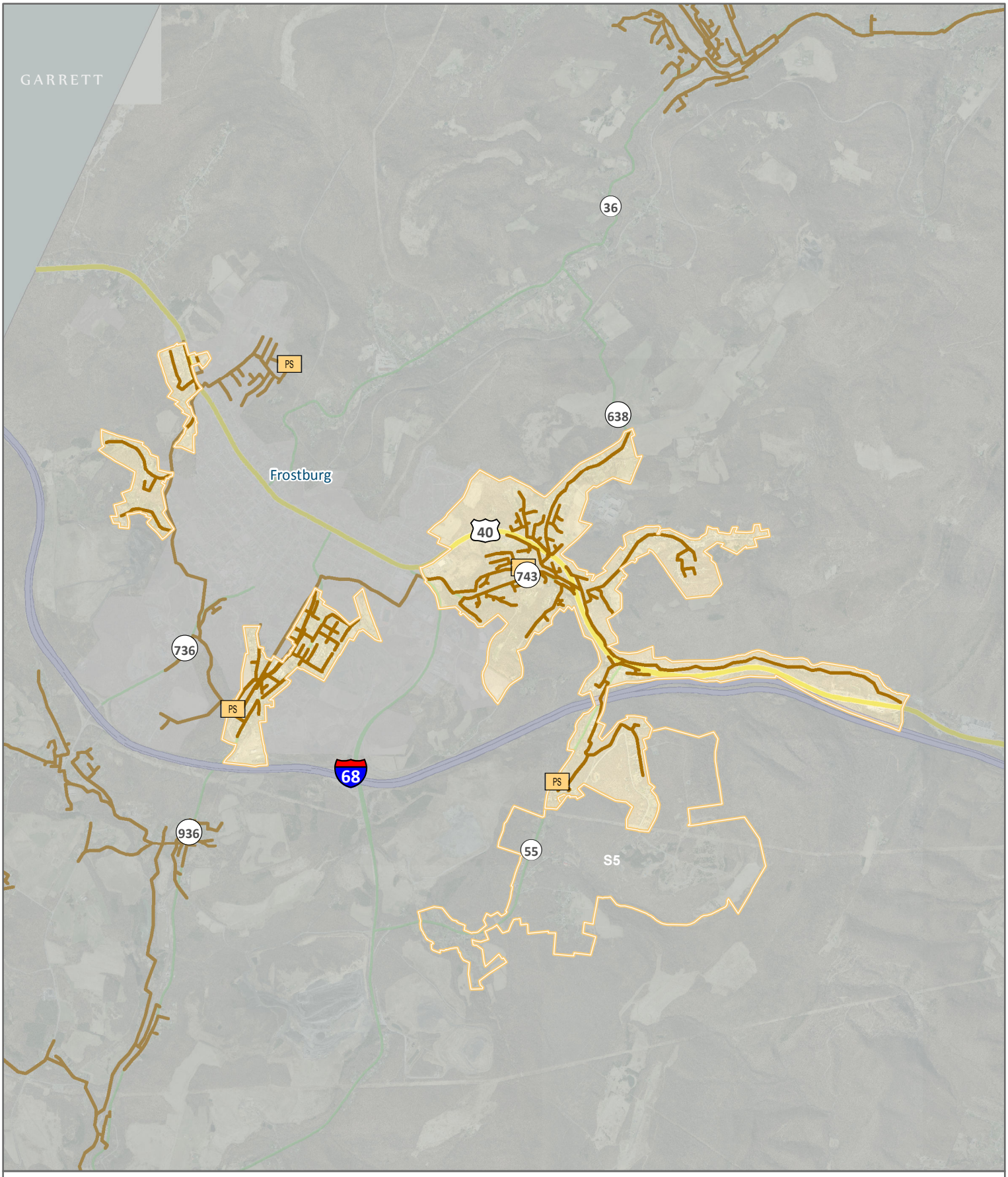
PS Pump Station

WWTP Wastewater Treatment Plant

Sewer Service Area

Sewer Line

Appendix 4.08



Braddock Run
Sewer Service Area

N

0 4,000 8,000 Feet

Outfall
PS Pump Station
WWTP Wastewater Treatment Plant
Sewer Service Area
Future Service Area
Sewer Line

Appendix 4.09

Bowling Green
Sewer Service Area

N

0 1,900 3,800 Feet

Outfall
PS Pump Station
WWTP Wastewater Treatment Plant
Sewer Service Area
Sewer Line

Appendix 4.10

Cresaptown

Sewer Service Area

N

0 1,500 3,000 Feet

Outfall

PS Pump Station

WWTP Wastewater Treatment Plant

Sewer Service Area

Sewer Line

Appendix 4.11

LaVale-Winchester Rd

Sewer Service Area

N

0 1,600 3,200 Feet

Outfall

PS Pump Station

WWTP Wastewater Treatment Plant

Sewer Service Area

Sewer Line

Appendix 4.12

Franklin Brophytown

Sewer Service Area

N

0 600 1,200 Feet

Outfall

PS Pump Station

WWTP Wastewater Treatment Plant

Sewer Service Area

Sewer Line

Appendix 4.13

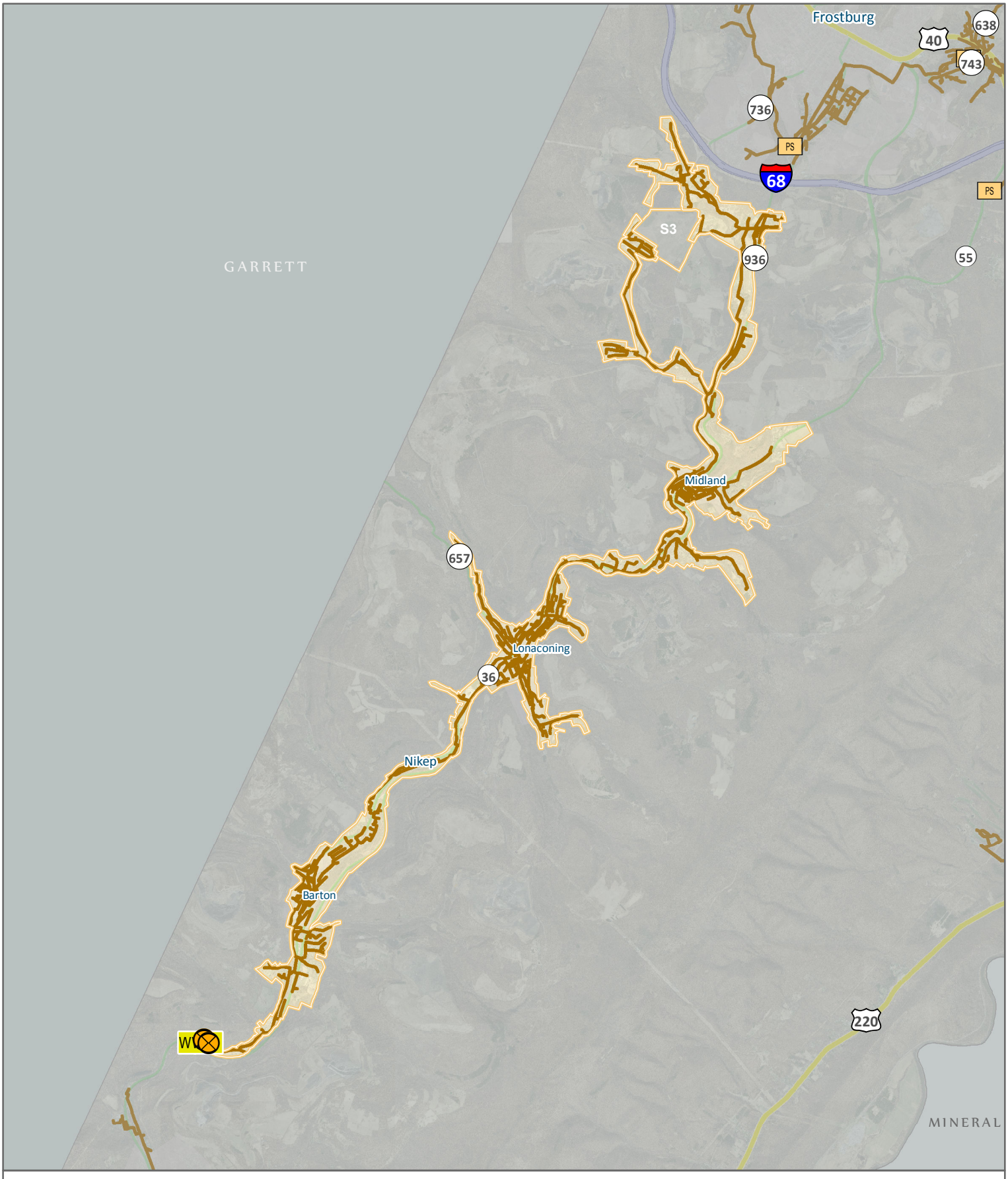
Westernport
Sewer Service Area

N

0 1,700 3,400 Feet

Outfall
PS Pump Station
WWTP Wastewater Treatment Plant
Sewer Service Area
Sewer Line

Appendix 4.14


Frostburg
638
40
743
736
PS
68
PS
S3
936
55
GARRETT
Midland
657
Lonaconing
36
Nikep
Barton
WWTP
220
MINERAL
Georges Creek
Sewer Service Area
N
0
6,400
12,800 Feet
Outfall
PS
Pump Station
WWTP
Wastewater Treatment Plant
Sewer Service Area
Future Service Area
Sewer Line
Appendix 4.15

McCoole

Sewer Service Area

N

0 1,200 2,400 Feet

Outfall

PS Pump Station

WWTP Wastewater Treatment Plant

Sewer Service Area

Sewer Line

Appendix 4.16

Rawlings

Sewer Service Area

N

0 1,100 2,200 Feet

Outfall

PS Pump Station

WWTP Wastewater Treatment Plant

Sewer Service Area

Sewer Line

Appendix 4.17

Barton Business Park

Sewer Service Area

N

0 900 1,800 Feet

Outfall

PS Pump Station

WWTP Wastewater Treatment Plant

Sewer Service Area

Sewer Line

Appendix 4.18

Biers Lane

Sewer Service Area

N

0 500 1,000 Feet

Outfall

PS Pump Station

WWTP Wastewater Treatment Plant

Sewer Service Area

Sewer Line

Appendix 4.19

Pinto

Sewer Service Area

N

0 1,300 2,600 Feet

Outfall

PS Pump Station

WWTP Wastewater Treatment Plant

Sewer Service Area

Sewer Line

Appendix 4.20

Oldtown

Sewer Service Area

N

0 700 1,400 Feet

Outfall

PS Pump Station

WWTP Wastewater Treatment Plant

Sewer Service Area

Sewer Line

Appendix 4.21

Flintstone

Sewer Service Area

N

0 1,200 2,400 Feet

Outfall

PS Pump Station

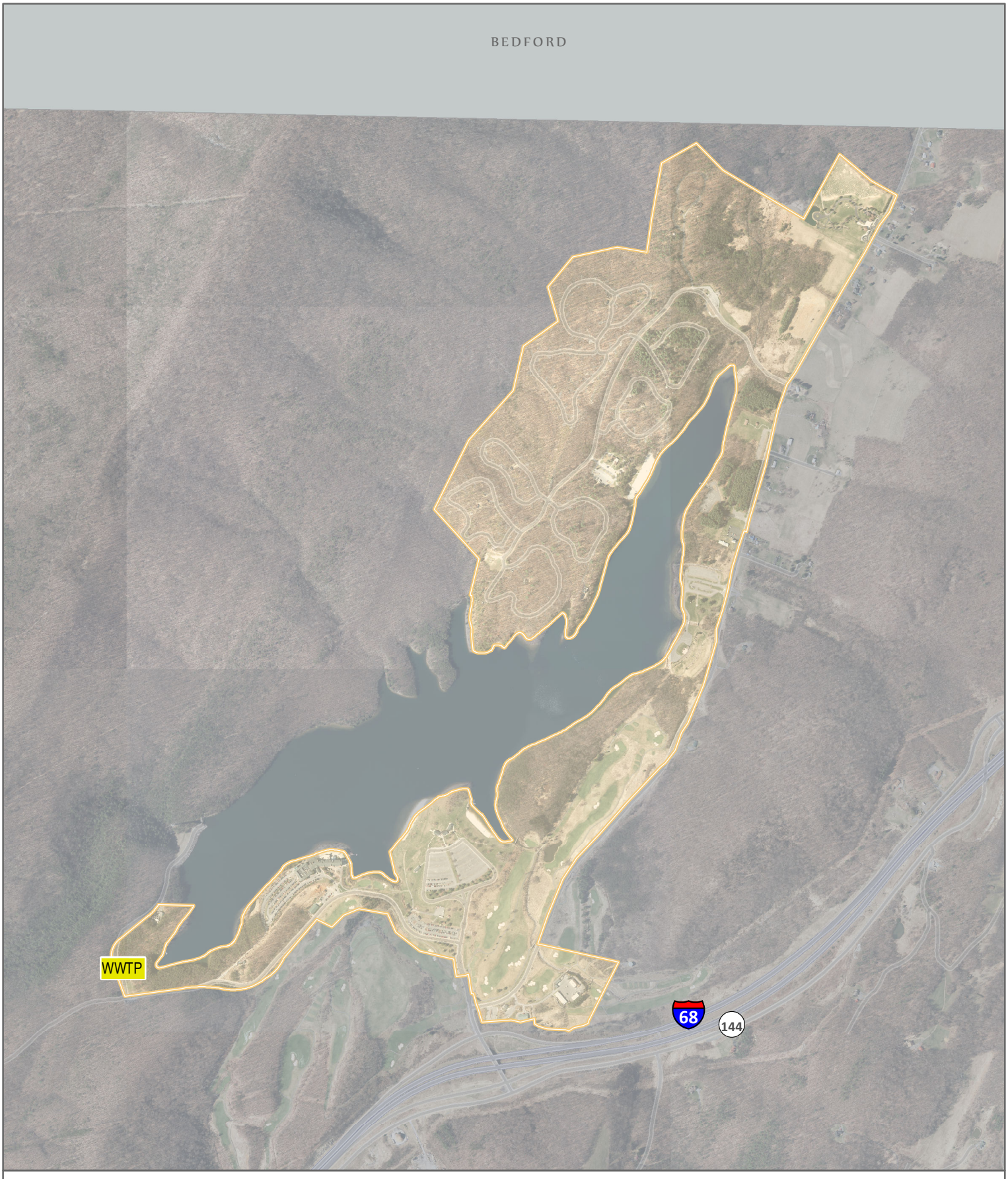
WWTP Wastewater Treatment Plant

Sewer Service Area

Future Service Area

Sewer Line

Appendix 4.22



Rocky Gap

Sewer Service Area

N

0 1,400 2,800 Feet

Outfall

PS Pump Station

WWTP Wastewater Treatment Plant

Sewer Service Area

Sewer Line

Appendix 4.23

Green Ridge Boys Camp

Sewer Service Area

N

0 200 400 Feet

Outfall

PS Pump Station

WWTP Wastewater Treatment Plant

Sewer Service Area

Sewer Line

Appendix 4.24

Little Orleans Campground

Sewer Service Area

N

0 310 620 Feet

Outfall

PS Pump Station

WWTP Wastewater Treatment Plant

Sewer Service Area

Future Service Area

Sewer Line

Appendix 4.25

Dan's Mountain State Park

Sewer Service Area

N

0 310 620 Feet

Outfall

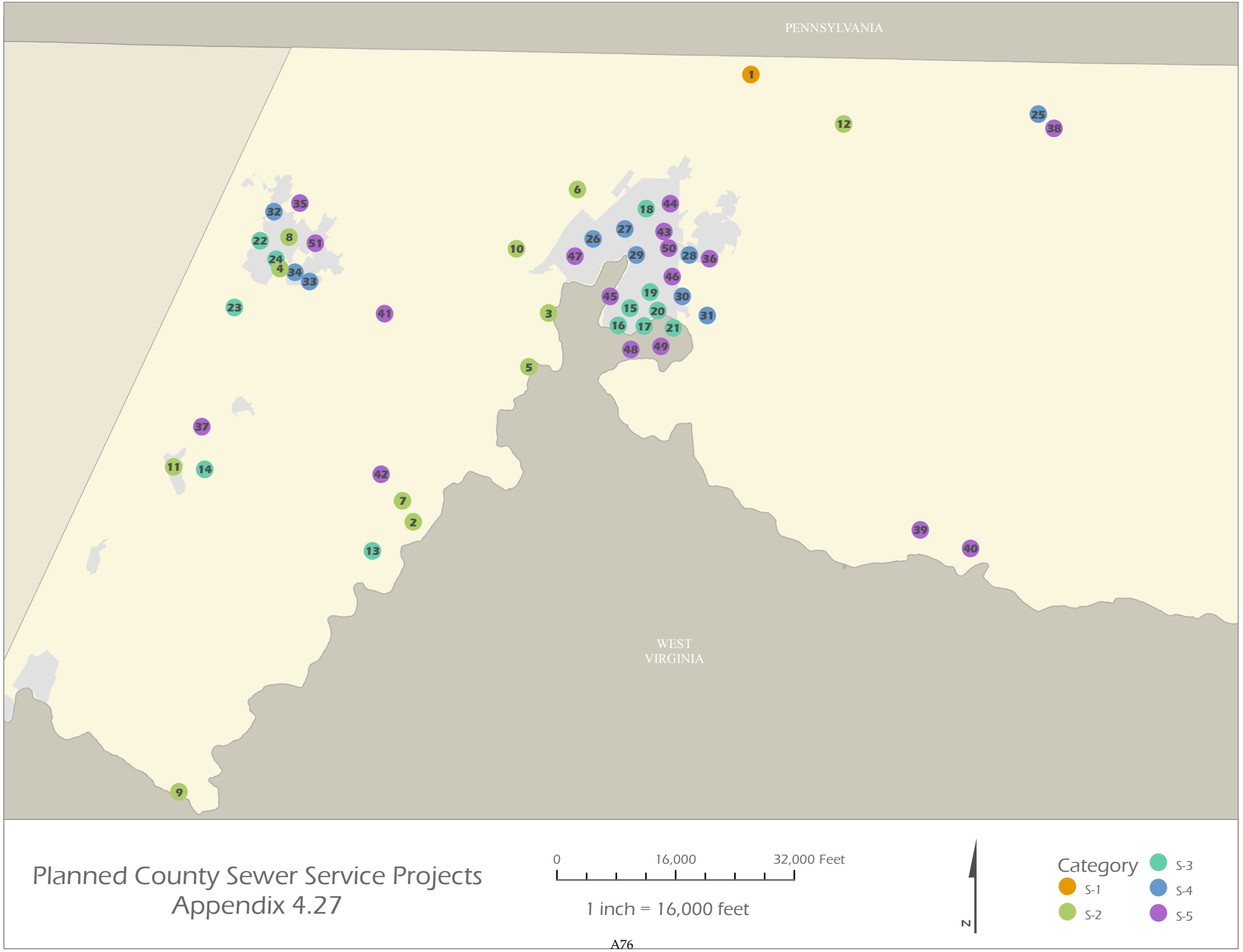
PS Pump Station

WWTP Wastewater Treatment Plant

Sewer Service Area

Sewer Line

Appendix 4.26


PENNSYLVANIA
WEST VIRGINIA
1
12
25
38
6
18
44
27
43
26
10
47
29
50
28
36
46
45
19
30
15
20
31
3
16
17
21
48
49
5
35
32
22
8
51
24
4
34
33
23
41
37
11
14
42
7
2
13
39
40
9
Planned County Sewer Service Projects
Appendix 4.27
0
16,000
32,000 Feet
1 inch = 16,000 feet
N
Category
S-1
S-2
S-3
S-4
S-5

Appendix 4.28 – Allegany County Flow Data - Collectors, Interceptors, Force Mains, & Pump Stations

FY 2013 ANNUAL Avg. FLOW DATA (*Based on 250 GPD/EDU)										
TYPE	Sub-Basin Meter Location	Flow Meter Location	Tributary EDUs	Area IDMs	Annual Average Daily Flow (GPD)		Ratio of Actual Flow to Estimated Flow	Metered I&I GPD/IDM	Annual Average Daily Rainfall (inches)	GPD/EDU
					Expected Based on EDUs*	Metered				
	Braddock Run		8,511	205.867	2,127,750	1,701,847	0.80	N/A	0.11	199.96
	LaVale		12,065	228.800	3,016,250	2,747,936	0.91	N/A	0.11	227.76
PUMP STATION	Bowling Green		822	108.946	205,500	459,202	2.23	2328.69	0.11	558.64
	Cresaptown		1,038	64.281	259,500	417,640	1.61	2460.13	0.11	402.35
	Locust Grove		1,230	249.457	307,500	1,148,585	3.74	3371.67	0.11	933.81
	McCoole		224	33.622	56,000	163,988	2.93	3211.83	0.11	732.09
	Mill Run		272	37.890	68,000	196,588	2.89	3393.71	0.11	722.75
	North Branch PS		1,302	22.683	325,500	312,661	0.96	N/A	0.11	240.14
	Oldtown Road		223	16.715	55,750	4,671	0.08	N/A	0.11	20.95
	Williams Rd (Bedford Rd)		935	246.761	233,750	266,614	1.14	133.18	0.11	285.15
	Valley Rd (Bedford Rd)		295	57.742	73,750	84,557	1.15	187.16	0.11	286.63
	Wrights Crossing		4,067	144.162	1,016,750	1,106,739	1.09	624.22	0.11	272.13
WWTP	Barton Park		42	n/a	10,500	6,429	0.61	N/A	0.11	153.07
	Flintstone		78	15.673	19,500	61,937	3.18	2707.72	0.11	794.07
	Georges Creek		2,182	442.306	545,500	652,203	1.20	241.24	0.11	298.90
	North Branch WWTP		3,631	173.227	907,750	1,582,163	1.74	3893.22	0.11	435.74
	Oldtown		49	10.690	12,250	14,718	1.20	230.92	0.11	300.38

FY 2014 ANNUAL Avg. FLOW DATA (*Based on 250 GPD/EDU)										
TYPE	Sub-Basin Meter Location	Flow Meter Location	Tributary EDUs	Area IDMs	Annual Average Daily Flow (GPD)		Ratio of Actual Flow to Estimated Flow	Metered GPD/IDM	Annual Average Daily Rainfall (inches)	GPD/EDU
					Expected Based on EDUs*	Metered				
	Braddock Run		8,511	205.867	2,127,750	1,526,361	0.72	N/A	0.12	179.34
	LaVale		12,065	228.800	3,016,250	2,462,744	0.82	N/A	0.12	204.12
PUMP STATION	Bowling Green		822	108.946	205,500	486,570	2.37	2579.90	0.12	591.93
	Cresaptown		1,038	64.281	259,500	422,460	1.63	2535.10	0.12	406.99
	Locust Grove		1,230	249.457	307,500	723,033	2.35	1665.75	0.12	587.83
	McCoole		224	33.622	56,000	151,795	2.71	2849.17	0.12	677.66
	Mill Run		272	37.890	68,000	266,295	3.92	5233.41	0.12	979.03
	North Branch PS		1,302	22.683	325,500	369,819	1.14	1953.87	0.12	284.04
	Oldtown Road		223	16.715	55,750	6,117	0.11	N/A	0.12	27.43
	Williams Rd (Bedford Rd)		935	246.761	233,750	617,086	2.64	1553.47	0.12	659.99
	Valley Rd (Bedford Rd)		295	57.742	73,750	118,883	1.61	781.62	0.12	402.99
	Wrights Crossing		4,067	144.162	1,016,750	945,734	0.93	N/A	0.12	232.54
WWTP	Barton Park		42	n/a	10,500	5,518	0.53	N/A	0.12	131.37
	Flintstone		78	15.673	19,500	41,335	2.12	1393.21	0.12	529.94
	Georges Creek		2,182	442.306	545,500	748,822	1.37	459.69	0.12	343.18
	North Branch WWTP		3,631	173.227	907,750	1,368,250	1.51	2658.35	0.12	376.82
	Oldtown		49	10.690	12,250	19,105	1.56	641.24	0.12	389.89

RESOLUTION

WHEREAS, the Allegany County Sanitary Commission determined that it is necessary to raise water and sewer rates at its public meeting of May 28, 2015.

NOW THEREFORE BE IT RESOLVED, that the Allegany County Sanitary Commission, the governing body of the Allegany County Sanitary District, Inc., pursuant to the provisions of Section 658 of Article 43 of the Annotated Code of Maryland does hereby certify to the County Commissioners of Allegany County that it is necessary to adopt the following rates in order to have a balanced budget for the Fiscal Year 2016:

Allegany County Sanitary District, Inc.

Revised Rates become effective July 1, 2015 based on the attached table.

Tap Fees: Water - $750.00 (unchanged)
Sewer - $750.00 (unchanged)

Shut-Off Fee: $100.00 (unchanged)
Tamper Fee: $250.00 (unchanged)

Water Usage Cost: Usage rate is the cost of water purchased plus 10% for lost water allowance. This rate is adjusted as needed based on supplier rate changes.

Industrial Park and Bulk User Rates: 3% Increase

5-14-15
Date

Warren E. Foote
Warren Foote, Chairman

5/14/15
Date

Jason M. Bennett
Jason M. Bennett, Secretary-Treasurer

Att: FY2016 Water and Sewer Rate Table

f:ResolutionFY16/SanCom

Proposed FY2016 Water and Sewer Rates

District	Service Area	Water				Sewer			
		Minimum	Outside Surcharge	County Surcharge	Usage Rate (per 1000 gal)	Minimum	County Surcharge	Front Footage per foot (Annually)	Ad Valorem per $100 (Annually)
Georges Creek (Co. #1)	Georges Creek					$86.00	$28.00	$0.00	0.210
	Carlos/Shaft/Klondike	$76.00	$15.90	$3.50	$2.95	$86.00	$28.00	$0.00	0.210
Jennings Run/Wills Creek (Co. # 2 & #12)	Jennings Run/Wills Creek	$74.00				$86.00	$8.00	$0.13	0.052
	Cash Valley Road	$74.00			$5.02	$86.00	$8.00		0.186
	Corriganville/Ellerslie	$74.00			$5.02	$86.00	$8.00	$0.13	0.052
Franklin/Brophytown (Co. #3)	Franklin/Brophytown	$74.00			$8.45	$86.00		$0.00	0.019
Oldtown (Co. #4)	Oldtown					$86.00		$0.00	0.033
Flintstone (Co. #5)	Flintstone					$86.00		$0.02	0.150
Braddock Run* (Co. #6 & #7)	Eckhart	$75.00	$3.75	$3.50 $10.00	$2.95 $2.95	$86.00	$3.00		0.007
	Grahamtown/Wrights Crossing	$77.00	$15.90	$3.50	$2.95	$86.00	$3.00		0.007
	Consol	$77.00	$15.90	$3.50	$2.95	$86.00	$3.00		0.007
	Clarysville	$88.00	$3.75	$3.50 $10.00	$2.95	$86.00	$3.00		0.007
Bowling Green (Co. #8)	Bowling Green	$75.00			$5.02	75% of water charge	$4.00	$0.00	0.250
Cresaptown (Co. #9)	Cresaptown (In District)	$70.00			$5.02	$86.00	$4.00		0.250
		first 6,000 gal.			per 1,000 gal. over the 6,000				
	(Out of District)	$89.00			$5.02				
		first 6,000 gal.			per 1,000 gal. over the 6,000				

Proposed FY2016 Water and Sewer Rates

District	Service Area	Water				Sewer			
		Minimum	Outside Surcharge	County Surcharge	Usage Rate (per 1000 gal)	Minimum	County Surcharge	Front Footage per foot (Annually)	Ad Valorem per $100 (Annually)
Bedford Road (Co. #10)	Bedford Road	$90.00			$6.12	$86.00		$0.00	0.100
	Valley Road/Bowmans Addition	$90.00			$6.12	$86.00			0.100
McCoole (Co. #11)	McCoole	$90.00			$2.99	$86.00			0.031
Mexico Farms (Co. #14)	Mexico Farms	$74.00			$6.12	$86.00			0.051
Route 36 (Co. #15)									
	Route 36/Vale Summit	$77.00	$15.90	$3.50	$2.95	$86.00			
	Hoffman	$77.00	$15.90	$3.50	$2.95				
Oldtown Road (Co. #16)	Oldtown Road	$84.00			$6.12	$86.00			0.130
Biers Lane (Co. #17)	Biers Lane					$92.00	$7.25		
Borden/Zihlman (Co. #18)	Borden/Zihlman/Morantown	$77.00	$15.90	$3.50	$2.95				
	Mt Savage								
Rawlings		$90.00			$5.02				

*County surcharges include $3.50 PSC fee and $10.00 Eckhart surcharge.

$15.00 per quarter Bay Restoration Fee assessed to all sewer customers required by State of Maryland

Water Tap Fee = $750.00
Sewer Tap Fee = $750.00

Shut-off Fee = $100.00
Tamper Fee = $250.00

Water minimum for unconnected customers will be reduced by $5.00 per quarter from existing rates and frozen based on 2011 rates.