



# Maryland

Department of  
the Environment

Larry Hogan  
Governor

Boyd Rutherford  
Lieutenant Governor

Ben Grumbles  
Secretary

**AUG 29 2016**

The Honorable Stephen Wantz  
President, Board of County Commissioners of Carroll County  
Carroll County Office Building  
225 North Center Street  
Westminster, Maryland 21157

Dear President Wantz:

The Maryland Department of the Environment (MDE) has completed its final review of the **Fall 2015 Amendment Cycle (Amendment) to the 2013 Carroll County Water and Sewer Master Plan (Plan)**. The Carroll County Commissioners adopted the Amendment on February 18, 2016 through Resolution No. 968-2016.

The Amendment would revise the sewer sections of the Plan associated with the Town of Mount Airy, the Town of New Windsor, and the Freedom area. The Amendment would also revise the water sections of the Plan associated with the Town of Mount Airy and the Freedom area. The Amendment also updates *Table 20 – Projected Water Supply Demands and Projected Capacity* and *Table 32 – Projected Sewer Supply Demands and Projected Capacities*. Please note that the *Projected Water Supply Demands and Projected Capacity* and the *Projected Sewer Supply Demands and Projected Capacities* were incorrectly referred to as Table 16 and Table 27, respectively, in the Amendment material. The correct Table references, as shown in the approved 2013 Plan, are Table 20 and Table 32. The Department notes that the County is planning to expand the Freedom WWTP from 3.5 to 4.0 MGD. Before the WWTP can operate at 4.0 MGD, the permittee must receive the Department's approval for this modification to the NPDES permit.

During MDE's review of the Amendment, the Maryland Department of Planning (MDP) advised the Department that the Amendment is consistent with the Comprehensive Plans of the County and Towns (see enclosed comments). In accordance with §9-507(a) of the Environment Article, Annotated Code of Maryland, the Department hereby approves the **Fall 2015 Amendment**, as shown on the attached Plan Sections.

The Department's Wetlands and Waterways Program reiterated its concern about the proposed Gillis Falls reservoir. Since obtaining permits for a new reservoir is a lengthy and time-consuming process, the County is advised to consider other alternatives for satisfying the future water demand. Please contact Denise Clearwater of MDE's Wetlands and Waterways Program at 410-537-3781 for guidance concerning Wetlands and Waterways issues related to the Gillis Falls reservoir.

The Department notes that portions of the Mount Airy service area are located within the watersheds of Gillis Falls 2 and South Branch Patapsco River 1, identified as Tier II streams pursuant to COMAR 26.08.02.04-1. The Department also notes that portions of the Freedom service area are located within the watersheds of Little Morgan Run 2 and Morgan Run Unnamed Tributary 1, identified as Tier II streams pursuant to COMAR 26.08.02.04-1. Tier II streams are high quality waters that must be given extra considerations to protect their quality. Any new or expanded discharge to these Tier II watersheds would require an Anti-degradation Review. All possible considerations should be implemented to protect high quality waters from any necessary development. This primarily consists of rigorous watershed planning, with consideration of the extra provisions necessary to protect high quality waters.

The Department recommends that the County consider the following measures in efforts to maintain these high quality waters when approving new growth in the watersheds of these stream segments: 1) implement restrictive zoning or ordinances to protect environmental features; 2) re-direct planned growth out of the watersheds of these stream segments; 3) retrofit existing stormwater infrastructure; 4) incorporate environmental site design (ESD) and other low impact development (LID) practices into new development; 5) maintain and expand existing forest cover; and 6) provide riparian buffers of 100-230 feet (depending upon soil types and slopes). The County should be aware that future plans facilitated by this Plan may incur an additional Anti-degradation Review at later stages, on a project-by-project basis. The County is advised to contact Lee Currey, Director of MDE's Science Services Administration, at 410 537-3913 for additional information about regulatory requirements for Tier II waters.

This action completes MDE's final review, as required by §9-507 of the Environment Article, Annotated Code of Maryland. If you need further assistance, please contact Virginia F. Kearney, Deputy Director, at 410-537-3512, toll-free at 800-633-6101; or by email at [virginia.kearney@maryland.gov](mailto:virginia.kearney@maryland.gov).

Sincerely,

  
Lynn Buhl, Director  
Water Management Administration

Enclosures

cc: Phillip Hager, Director, Department of Comprehensive Planning, Carroll County  
Tom Devilbiss, Director, Dept of Land & Resource Management, Carroll County  
Charles Boyd, Deputy Director, Planning Services, MDP  
Virginia F. Kearney, Deputy Director, WMA, MDE  
Denise Clearwater, Wetlands and Waterways Program, WMA, MDE  
Lee Currey, Director, SSA, MDE



April 18, 2016

Ms. Janice Outen  
Maryland Department of the Environment  
Water Quality Infrastructure Program  
1800 Washington Boulevard  
Baltimore, MD 21230

**Re: Fall 2015 Water and Sewer Amendments to the 2014 Carroll County Water and Sewer Master Plan text amendment Resolution 968-2016**

Dear Ms. Outen:

The Maryland Department of Planning (Planning) has reviewed the Fall 2015 Water and Sewer Amendments to the 2014 Carroll County Water and Sewer Master Plan, adopted by Resolution No. 968-2016, pursuant to our mandate to advise the Maryland Department of the Environment (Environment) on local comprehensive plan consistency and other appropriate matters as required by Environmental Article Section 9-507 (b)(2).

These amendments were previously reviewed by Planning under a draft submittal request and those comments were shared with the County in our review letter dated January 21, 2016.

**Summary of Amendments:**

These amendments pertain to changes to water and sewer service areas for the towns of Mount Airy, New Windsor, Sykesville and the unincorporated Freedom area.

1. Revises Mount Airy's priority water and sewer service area (W-3, S-3) within the town's Ultimate Growth Boundary to include portions of the Leishear property. It is understood that this property was omitted due to a clerical mapping error in the town's master planning process.
2. Amends Mount Airy's long range planning water and sewer service areas (10+ year) to coincide and establish consistency with the town's newly adopted master plan.

Ms. Janice Outen

Re: MDP comments on Carroll County Resolution 968-2016

3. Adds a footnote to the Town of New Windsor's "Table 27 – Projected Sewerage Demands and Planned Capacity" to address an Inflow & Infiltration project that the town anticipates completing to address a 9,000 gpd deficit in the future planning category.
4. Amends the Freedom chapter map and table to reflect modifications resulting from a new State-County agreement on allocations.

**Consistency with the Comprehensive Plan**

These amendments are consistent with county and town plans. However, we note that on Table 16 in the 2014 Water and Sewer Master Plan that the residential population of the Freedom/Sykesville service area increases from 23,911 to 32,258 in the 0-6 year priority planning period, and indicates no increase in the 7-10 year future planning period.

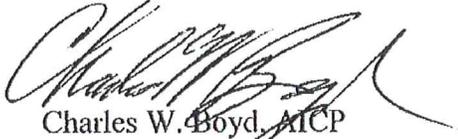
**Priority Funding Area Review**

Pursuant to the State Finance and Procurement Article, §5-7B-02, local jurisdictions are eligible to receive State financial assistance if the project is located in a Priority Funding Area (PFA). Based on our review, please note the following:

1. The Leishear property is outside the PFA.
2. The Spicer, Springwood and Doubs properties are outside the PFA.

If you have any questions concerning these comments, please call Steve Allan at 410-767-4572.

Sincerely,



Charles W. Boyd, AICP  
Director of Planning Coordination

cc: Greg Golden, DNR  
Dwight Dotterer, MDA  
Steven Allan, Planning  
John Leocha, Planning  
Jason Dubow, Planning



## Planning and Zoning Commission Report to The Board of Commissioners

### Fall 2015 Amendment *Carroll County Water and Sewer Master Plan*

#### Re: Mount Airy and Sykesville Water Service Areas

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This request would amend the 2014 *Carroll County Water and Sewer Master Plan*. The request detailed below pertains to changes to the towns of Mount Airy and Sykesville Water Service Areas and associated maps and tables.

#### Request

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1. Extend Mount Airy's Priority Water Service Area (W-3) to include the portions of the Leishear property that lies within the Town's Ultimate Growth Boundary located within their newly Adopted master plan.
2. Amend Mount Airy's Long Range Planning Water Service Areas (10+ year) (W-6) to establish consistency with the Town's newly Adopted master plan.
3. Amend the Freedom chapter map and table to reflect modifications resulting from a new State-County agreement on allocations.

#### Background Information

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- Town of Mount Airy:
  - The Town of Mount Airy recently completed an update to their Comprehensive Master Plan. Through this process, it was noted that the Town had intended for their Ultimate Growth Area to include both the Harrison and Leishear properties. It was a clerical error that the Leishear property was omitted in the mapping portion of the Master Plan process. Originally, it was thought that only the included portion would be developed. As the plan progressed and conversations occurred between stakeholders and the property owner, that is no longer the case. This amendment would allow for the Mount Airy Sewer Service Area map to be consistent with what was Adopted in the 2013 Mount Airy Comprehensive Master Plan and adds the Leishear Property to the Master Water and Sewer Plan. The Leishear property is part of a pair of properties owned by a private entity. The Town is working out an agreement for the development of these properties and for the allocation of resources. According to the agreement, the planning numbers that were used to calculate demand for the portion of the pair that was already in the service area is more allocation than what is allowed for the entire development. Therefore, the Town instructed staff to not add any additional demand for the newly added property into our Priority calculations.

- With the newly Adopted Mount Airy Comprehensive Master Plan, the Future Annexation Areas have been revised. This amendment will amend Mount Airy's Long Range Planning Water Service Areas (10+ year) (W-6) to make consistent with the new Master Plan.
- The Town of Sykesville:
  - The Warfield Complex that has previously been calculated under the State's allocation for water has recently come into the Town of Sykesville. A new water allocation agreement between the County and the State was negotiated. The original agreement was that the State was allocated 400,000 gpd in order to serve all of the State owned property in the southern part of Carroll County. After months of negotiation and collaboration a new allocation was agreed on by both parties. The new allocation for the State has been decreased by 142,000 gpd to 258,000 gpd in order to cover the projected demand that will come from the Warfield development.

## **Agency Comments**

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The Maryland Department of Planning had the following comments:

### **Consistency with the Comprehensive Plan**

"Planning has determined that the proposed water and sewer plan amendments appear to be consistent with county's and towns' comprehensive plans. However, we note that on Table 16 in the 2015 Water and Sewer Master Plan the residential population of the Freedom/Sykesville service area increased from 23,911 to 32,258 in 0-6 year priority planning period, and this table has no residential population increase in the 7-10 year future period. Is this correct?"

### **Priority Funding Area Review**

Pursuant to the State Finance and Procurement Article 5-7B-02 local jurisdictions are eligible to receive State financial assistance if the project is located in a Priority Funding Area (PFA).

Planning notes the following:

1. The Leishear property is outside the PFA
2. The Spicer, Springwood and Doubs properties are outside the PFA"

The Maryland Department of Environment had the following comments:

"Thank you for providing the Department an opportunity to review and comment on the Draft Fall 2015 Water and Sewer Amendment. Our preliminary review of the Draft Amendment revealed no major concerns from our Water Supply Program or our Wastewater Permits Program.

We did note that the text of the plan should be updated as well to reflect the changes in numbers that are shown in the revised tables provided in the Amendment. On page 45 please

update the allocation agreement reference, and on page 100 update the reserved allocation reference. On Table 22G, include the new I&I project.

Below, please see the comments we received from Water Supply:

1. The third footnote for Table 16 states that 165 GPD per residential household was used for calculating Priority and Future demand projections for New Windsor. Please explain how this figure was chosen. The first footnote references Appendix 3 "Method for Projecting Water Supply and Sewer Demands." Please send a copy of this document.
2. Do the Priority Planning demand figures for Mount Airy listed in Table 16 reflect the modifications to the water service area map? It was not specified whether Table 16 received any modifications beyond those associated with the Freedom system.

We also note that the service area changes for Mt. Airy occur within a Tier II watershed.

Also, be reminder that if the demand of a system is within 80% of the capacity, an updated Capacity Management Plan may be necessary."

The following agencies did not have any comments:

- Carroll County Health Department
- Carroll County Bureau of Utilities
- Carroll County Department of Land and Resource Management
- Carroll County Attorney
- Town of Mount Airy

## **Staff Analysis**

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The purpose of the Fall 2015 Amendment Cycle is provide a text and map reconciliation for some areas that have had adjustments since Maryland Department of the Environment approved the County's Water and Sewer Master Plan.

## **Mount Airy Planning Commission Certification**

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The Town certified that this amendment is consistent with their Master Plan on November 23, 2015.

## **Sykesville Planning Commission Certification**

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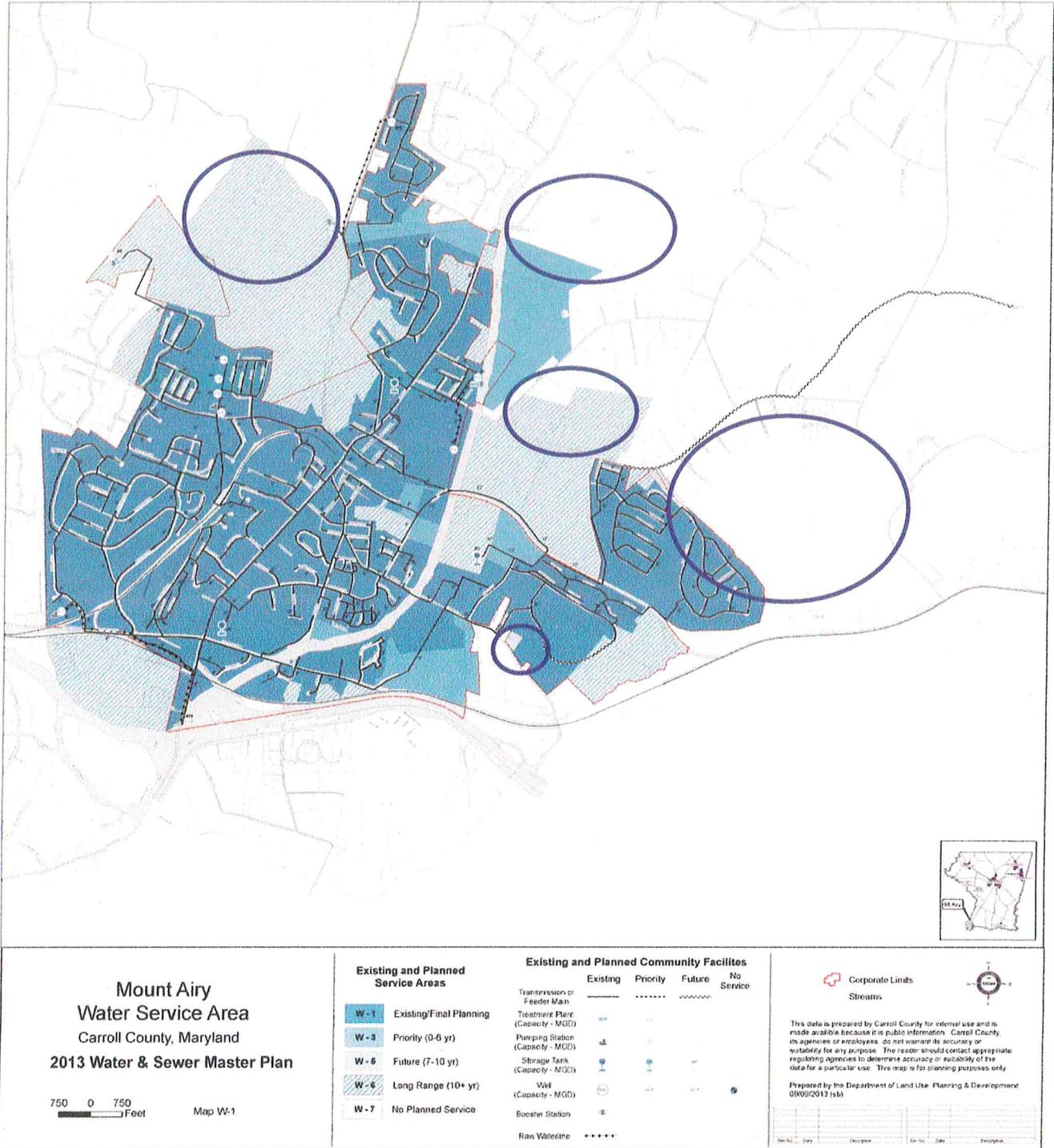
The Town certified that this amendment is consistent with their Master Plan on December 7, 2015.

**Carroll County Planning and Zoning Commission Certification**

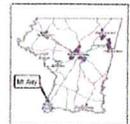
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The Carroll County Planning and Zoning Commission certified that this amendment was consistent with the 2014 Carroll County Master Plan at their December 15, 2015 meeting.

**Fall 2015 Amendment  
Carroll County Water and Sewer Master Plan**



**Fall 2015 Amendment  
Carroll County Water and Sewer Master Plan**



**Mount Airy  
Water Service Area  
Carroll County, Maryland  
2015 Fall Amendment**

750 0 750 Feet Map W-1

**Existing and Planned Service Areas**

- W-1 Existing/Final Planning
- W-3 Priority (0-6 yr)
- W-5 Future (7-10 yr)
- W-6 Long Range (10+ yr)
- W-7 No Planned Service

**Existing and Planned Community Facilities**

	Existing	Priority	Future	No Service
Transmission or Feeder Main	—	—	—	—
Treatment Plant (Capacity - MGD)	●	●	●	●
Pumping Station (Capacity - MGD)	●	●	●	●
Storage Tank (Capacity - MGD)	●	●	●	●
WWT (Capacity - MGD)	●	●	●	●
Booster Station	●	●	●	●
Raw Waterline	—	—	—	—

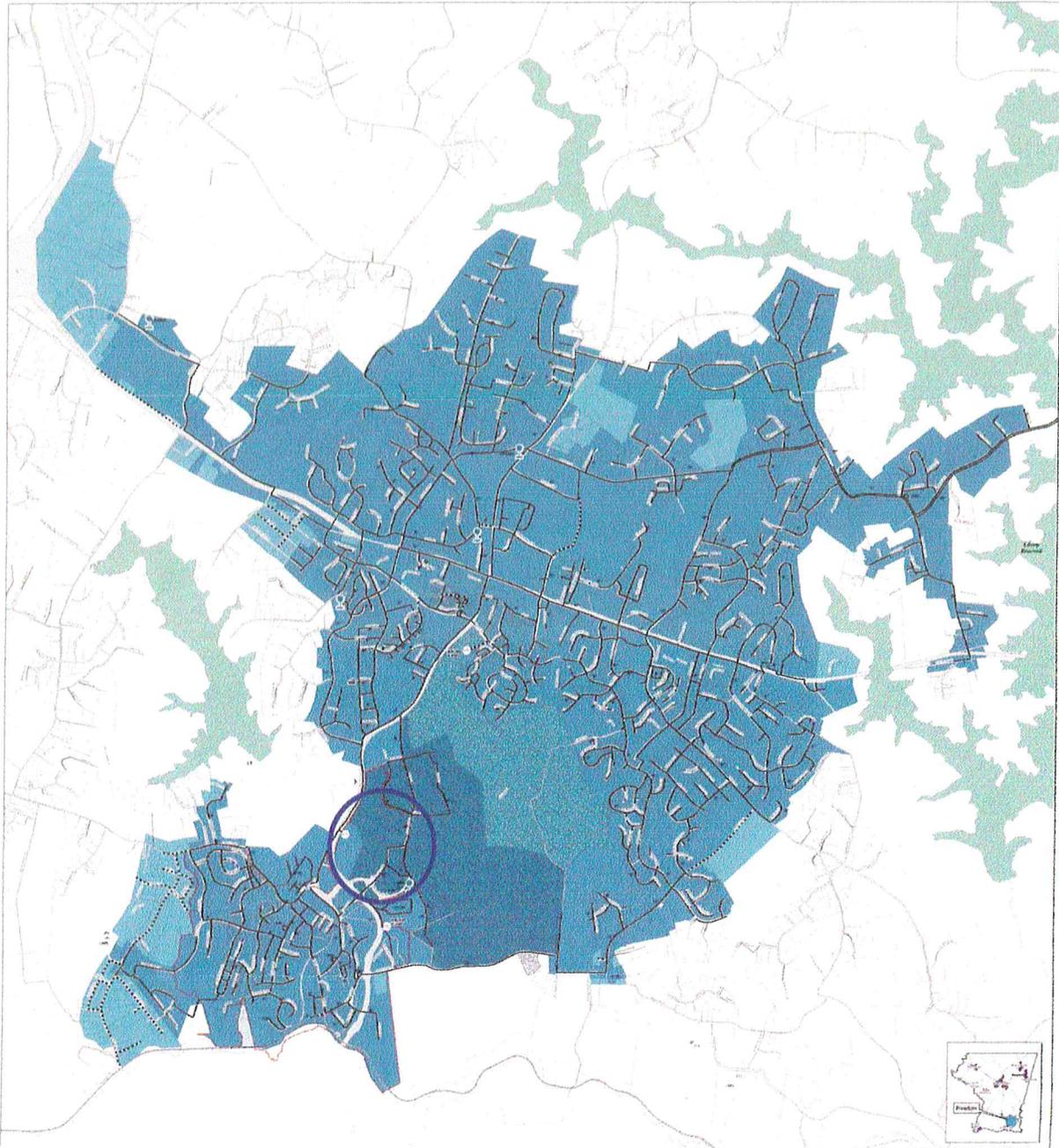
Corporate Limits  
Streams



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Prepared by the Department of Land & Resource Management  
11/16/2015 (sb)

Fall 2015 Amendment  
 Carroll County Water and Sewer Master Plan



**Freedom  
Water Service Area**  
Carroll County, Maryland

**2013 Water & Sewer Master Plan**

1,000 0 1,000 Feet

Map W-2

**Existing and Planned Service Areas**

- W-1 Existing/Final Planning
- W-3 Priority (0-5 yr)
- W-5 Future (7-10 yr)
- W-6 Long Range (10+ yr)
- W-7 No Planned Service

**Existing and Planned Community Facilities**

	Existing	Priority	Future	No Service
Transmission or Feeder Main	—	—	—	—
Treatment Plant (Capacity - MGD)	■	■	■	■
Pumping Station (Capacity - MGD)	■	■	■	■
Storage Tank (Capacity - MGD)	■	■	■	■
Well (Capacity - MGD)	■	■	■	■
Spring	■	■	■	■
Basin/Station	■	■	■	■

**State of MD Allocation**

**Corporate Limits**

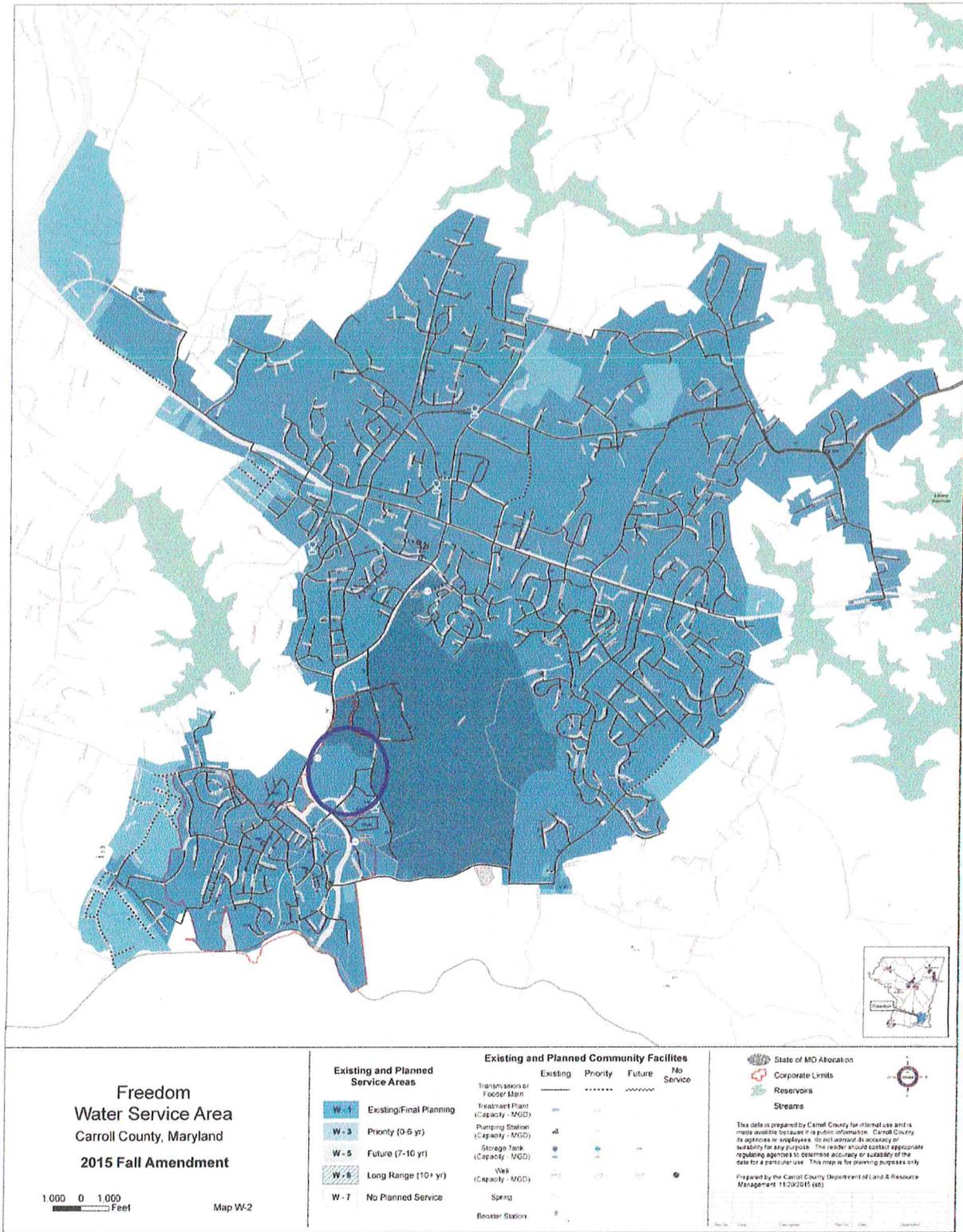
**Reservoirs**

**Streams**

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Prepared by the Carroll County Department of Land Use, Planning & Development  
 08/02/2013 (1)

**Fall 2015 Amendment  
Carroll County Water and Sewer Master Plan**



**Fall 2015 Amendment  
Carroll County Water and Sewer Master Plan**

88

Water Supply Facilities

**Projected Water Supply Demands and Projected Capacity**

The following table summarizes projected water demand over the next ten years. It incorporates planned capacity improvements that respond to the demand projections.

**Table 16  
Projected Water Supply Demands and Planned Capacity**

Service Area	Present Year										Priority Planning (0-6 Year)						Future Planning (7-10 Year)							
	Res Pop		G P C D		Capacity Million Gal. Daily (MGD)				Res Pop		G P C D		Capacity Million Gal. Daily (MGD)				Res Pop		G P C D		Capacity Million Gal. Daily (MGD)			
			Res Dem.	Oth. Dem.	Tot. Dem.	Ex. Cap.	PL	Cap	Res Dem.	Oth. Dem.	Tot. Dem.	PL	Cap	Res Dem.	Oth. Dem.	Tot. Dem.	PL	Cap	Res Dem.	Oth. Dem.	Tot. Dem.	PL	Cap	
<b>Frederick/Stevesville</b>	23,911	87	2,070	109	2,180	4,427	32,258	87	2,810	898	3,708	4,569	32,258	87	2,810	898	3,708	4,569	87	2,810	898	3,708	4,569	
Hampstead	6,266	56	349	110	460	630	7,306	61	446	385	731	812	8,295	64	530	319	849	1,040	61	446	385	731	812	
Manchester	4,698	52	236	088	304	381	6,347	60	383	084	467	722	6,502	61	397	084	481	722	60	383	084	467	722	
Mount Airy <sup>1</sup>	9,482	63	398	166	857	927	9,914	63	634	398	1,032	1,079	9,914	63	634	398	1,032	1,079	63	634	398	1,032	1,079	
New Windsor <sup>2</sup>	1,449	76	110	019	130	196	2,122	70	149	046	195	196	2,583	75	193	142	335	446	76	110	019	130	196	
Taneytown <sup>3</sup>	6,751	54	362	092	454	620	8,068	58	465	112	577	639	8,068	58	465	112	577	639	54	362	092	454	620	
Union Bridge	1,000	119	119	001	120	208	1,810	109	199	001	200	250	1,810	109	199	001	200	250	119	119	001	120	208	
Westminster	21,005	104	2,490	405	2,895	3,597	24,173	104	2,507	690	3,197	4,927	28,030	100	2,805	842	3,647	4,927	104	2,490	405	2,895	3,597	

<sup>1</sup> See Appendix 3 Method for Projecting Water Supply and Sewer Demands. Note: Table 20 corresponds with MDE's required Table 20 and is therefore out of sequence with preceding and succeeding table numbers.  
<sup>2</sup> Mount Airy's Total Demand includes 91,800 gpd to account for drought conditions (which is 1.2% of total demand). The Priority calculations are based on the Town's "pipeline" allocations and were provided to us by the Town of Mount Airy.  
<sup>3</sup> New Windsor's Priority and Future calculations are based on 165 gal per unit for residential demand.  
<sup>4</sup> Mount Airy, Taneytown and Union Bridge do not have any properties in the Future Planning Category.

July 2014

Carroll County Water & Sewer Master Plan



## Planning and Zoning Commission Report to The Board of Commissioners

### Fall 2015 Amendment *Carroll County Water and Sewer Master Plan*

#### Re: Mount Airy, New Windsor and Sykesville Sewer Service Areas

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This request would amend the 2014 *Carroll County Water and Sewer Master Plan* and any subsequent amendments prior to this request. The request detailed below pertains to changes to the towns of Mount Airy, New Windsor and Sykesville Sewer Service Areas and associated maps and tables.

#### Request

---

1. Extend Mount Airy's Priority Sewer Service Area (S-3) to include the portion of the Leishear property that lies within the Town's Ultimate Growth Boundary located within their newly Adopted master plan.
2. Amend Mount Airy's Long Range Planning Sewer Service Areas (10+ year) (S-6) to establish consistency with the Town's newly Adopted master plan.
3. Add a footnote to the Town of New Windsor's Table 27 line on "Table 27- Projected Sewerage Demands and Planned Capacity" to address an I&I project that the Town anticipates completing to address the 9,000 gpd deficit that exists in the Future Planning Category.
4. Amend the Freedom chapter map and table to reflect modifications resulting from a new State-County agreement on allocations.

#### Background Information

---

- Town of Mount Airy:
  - The Town of Mount Airy recently completed an update to their Comprehensive Master Plan. Through this process, it was noted that the Town had intended for their Ultimate Growth Area to include both the Harrison and Leishear properties. It was a clerical error that the Leishear property was omitted in the mapping portion of the Master Plan process. Originally, it was thought that only the included portion would be developed. As the plan progressed and conversations occurred between stakeholders and the property owner, that is no longer the case. This amendment would allow for the Mount Airy Sewer Service Area map to be consistent with what was Adopted in the 2013 Mount Airy Comprehensive Master Plan and adds the Leishear Property to the Master Water and Sewer Plan. The Leishear property is part of a pair of properties owned by a private entity. The Town is working out an agreement for the development of these properties and

for the allocation of resources. According to the agreement, the planning numbers that were used to calculate demand for the portion of the pair that was already in the service area is more allocation than what is allowed for the entire development. Therefore, the Town instructed staff to not add any additional demand for the newly added property into our Priority calculations.

- With the newly Adopted Mount Airy Master Plan, the Future Annexation Areas have been revised. This amendment will amend Mount Airy's Long Range Planning Sewer Service Areas (10+ year) (S-6) to make consistent with the new Master Plan.
- Town of New Windsor:
  - During the completion of the County's Triennial update the Water and Sewer Master Plan new data became available that put New Windsor's Future Category capacity in a 9,000 gpd deficit on "Table 27- Projected Sewerage Demands and Planned Capacity." The Town plans to eliminate this deficit by completing an I&I project which will recapture more than 9,000 gpd. This project is reflected in a footnote at the bottom of Table 27.
- The Town of Sykesville:
  - The Warfield Complex that has previously been calculated under the State's allocation for sewer has recently come into the Town of Sykesville. A new sewer allocation agreement between the County and the State was negotiated. The original agreement was that the State was allocated 900,000 gpd in order to serve all of the State owned property in the southern part of Carroll County. After months of negotiation and collaboration a new allocation was agreed on by both parties. The new allocation for the State has been decreased by 142,000 gpd to 758,000 gpd in order to cover the projected demand that will come from the Warfield development.

## **Agency Comments**

---

The Maryland Department of Planning had the following comments:

### **Consistency with the Comprehensive Plan**

"Planning has determined that the proposed water and sewer plan amendments appear to be consistent with county's and towns' comprehensive plans. However, we note that on Table 16 in the 2015 Water and Sewer mater Plan the residential population of the Freedom/Sykesville service area increased from 23,911 to 32,258 in 0-6 year priority planning period, and this table has no residential population increase in the 7-10 year future period. Is this correct?"

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Planning notes the following:

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2. The Spicer, Springwood and Doubs properties are outside the PFA”

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We did note that the text of the plan should be updated as well to reflect the changes in numbers that are shown in the revised tables provided in the Amendment. On page 45 please update the allocation agreement reference, and on page 100 update the reserved allocation reference. On Table 22G, include the new I&I project.

Below, please see the comments we received from Water Supply:

1. The third footnote for Table 16 states that 165 GPD per residential household was used for calculating Priority and Future demand projections for New Windsor. Please explain how this figure was chosen. The first footnote references Appendix 3 "Method for Projecting Water Supply and Sewer Demands." Please send a copy of this document.

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We also note that the service area changes for Mt. Airy occur within a Tier II watershed.

Also, be reminder that if the demand of a system is within 80% of the capacity, an updated Capacity Management Plan may be necessary.”

The following agencies did not have any comments:

- Carroll County Health Department
- Carroll County Bureau of Utilities
- Carroll County Department of Land and Resource Management
- Carroll County Attorney
- Town of Mount Airy

## **Staff Analysis**

---

The purpose of the Fall 2015 Amendment Cycle is to provide a text and map reconciliation for some areas that have had adjustments since Maryland Department of the Environment Approved the County’s Water and Sewer Master Plan.

### **Mount Airy Planning Commission Certification**

---

The Town certified that this amendment is consistent with their Master Plan on November 23, 2015.

### **New Windsor Planning Commission Certification**

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The Town certified that this amendment is consistent with their Master Plan on November 30, 2015.

### **Sykesville Planning Commission Certification**

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The Town certified that this amendment is consistent with their Master Plan on February 1, 2016.

### **Carroll County Planning and Zoning Commission Certification**

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The Carroll County Planning and Zoning Commission certified that this amendment was consistent with the 2014 Carroll County Master Plan at their December 15, 2015 meeting.

**Fall 2015 Amendment  
Carroll County Water and Sewer Master Plan**



**Mount Airy  
Sewer Service Area  
Carroll County, Maryland  
2013 Water & Sewer Master Plan**

1,000 0 1,000 Feet

Map S-1

**Existing and Planned  
Service Areas**

- S-1 Existing/Final Planning
- S-3 Priority (0-6 yr)
- S-5 Future (7-10 yr)
- S-6 Long Range (10+ yr)
- S-7 No Planned Service

**Existing and Planned Community Facilities**

	Existing	Priority	Future
Interceptor or Trunk Sewer			
Force Main			
Pumping stations			
Treatment Plants			

**Corporate Limits**  
 **Streams**

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Prepared by the Department of Land Use, Planning & Development  
09/09/2012 (ab)

**Fall 2015 Amendment  
Carroll County Water and Sewer Master Plan**



**Mount Airy  
Sewer Service Area  
Carroll County, Maryland  
2015 Fall Amendment**

1,000 0 1,000 Feet

Map S-1

**Existing and Planned  
Service Areas**

- S - 1 Existing/Final Planning
- S - 3 Priority (0-6 yr)
- S - 5 Future (7-10 yr)
- S - 6 Long Range (10+ yr)
- S - 7 No Planned Service

**Existing and Planned Community Facilities**

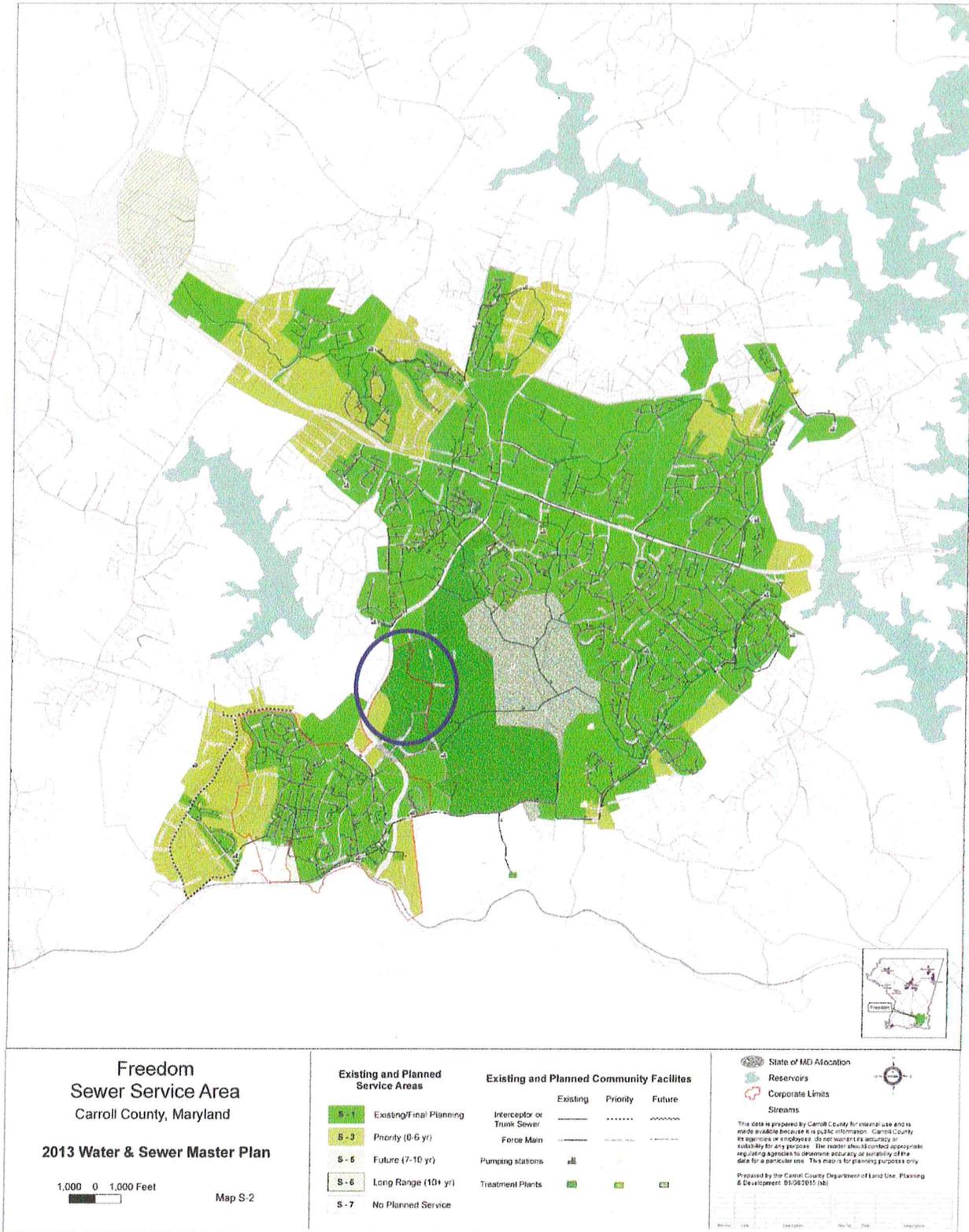
	Existing	Priority	Future
Interceptor or Trunk Sewer			
Force Main			
Pumping stations			
Treatment Plants			

Corporate Limits  
 Streams

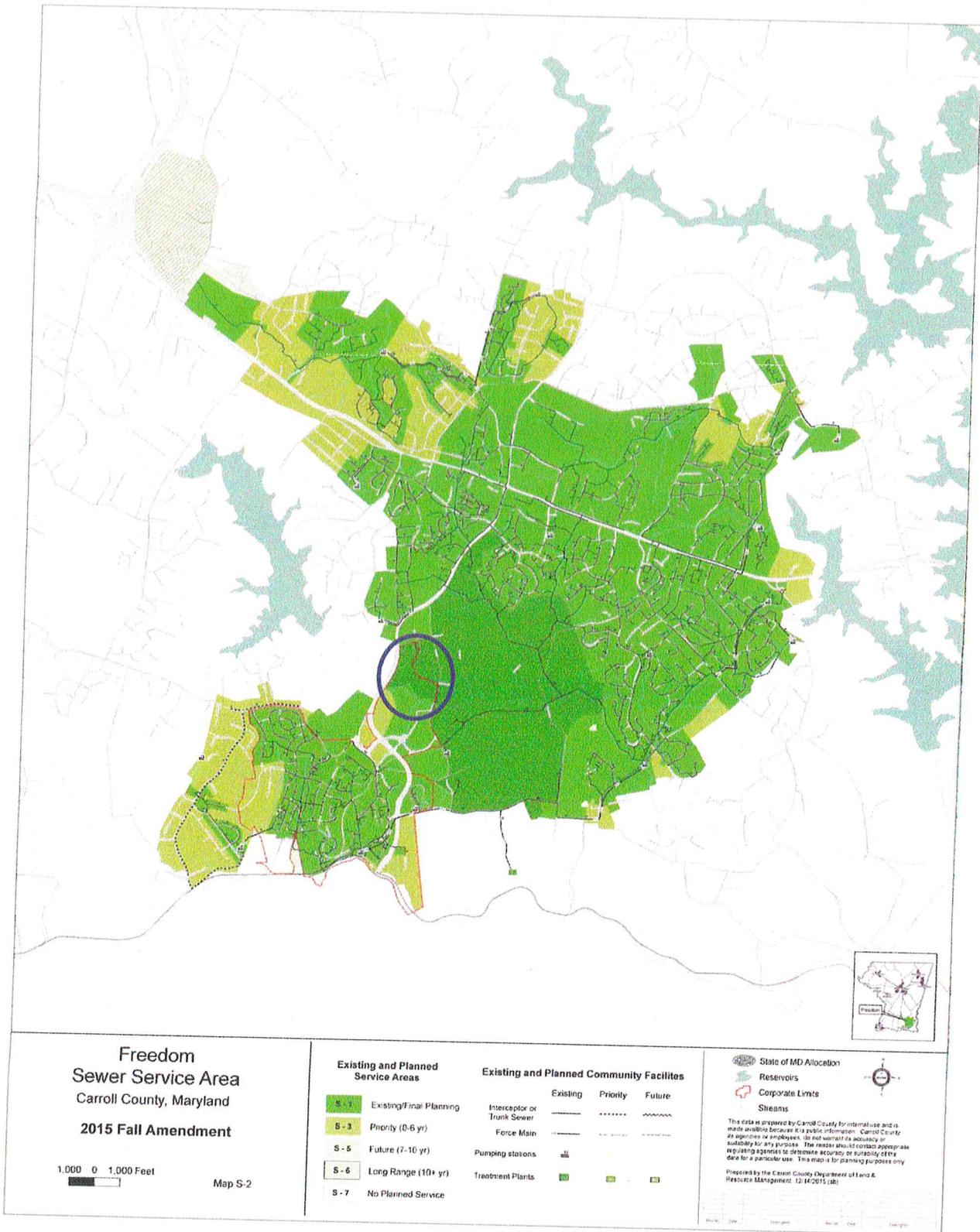
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Prepared by the Department of Land & Resource Management  
11/18/2015 (so)

**Fall 2015 Amendment  
Carroll County Water and Sewer Master Plan**



Fall 2015 Amendment  
 Carroll County Water and Sewer Master Plan



Projected Sewer Supply Demands and Projected Capacity

The following table summarizes projected sewer demand over the next ten years. It incorporates planned capacity improvements that respond to the demand projections.

**Table 27<sup>5</sup>**  
 Projected Sewerage Demands and Planned Capacity\*

Area Service	Present Year						Priority Planning (0-6 Year)						Future Planning (7-10 Year)					
	Res. Pop. Ser. <sup>1</sup>	G P C D	Capacity Million Gal. Daily (MGD)			Res. Pop. Ser. <sup>2</sup>	G P C D	Capacity Million Gal. Daily (MGD)			Res. Pop. Ser. <sup>3</sup>	G P C D	Capacity Million Gal. Daily (MGD)					
			Res. Dem.	Oth. Dem.	Tot. Dem.			Res. Dem.	Oth. Dem.	Tot. Dem.			Pl. Cap	Res. Dem.	Oth. Dem.	Tot. Dem.	Pl. Cap	
Freedom/Sylkesville	17,648	93	1,647	143	1,790	2,600 <sup>6</sup>	26,762	91	2,455	302	2,757	3,242 <sup>6</sup>	26,844	91	2,462	315	2,777	3,242 <sup>6</sup>
Hampstead	6,342	66	.431	.230	.661	.900	6,971	69	.487	.376	.863	.900	6,971	69	.580	.513	1,093	1,200
Manchester	4,105	68	.274	.079	.353	.500	5,518	73	.400	.095	.495	.545 <sup>7</sup>	6,187	72	.441	.093	.534	.795 <sup>8</sup>
Mount Airy <sup>9</sup>	9,482	73	.595	1.65	.760	1,200	9,914	67	.631	.397	1,028	1,200	9,914	68	.631	.397	1,028	1,200
New Windsor <sup>10</sup>	1,399	39	.054	.009	.063	115	2,032	48	.095	.014	.109	115	2,617	52	1.86	.103	2.39	230 <sup>11</sup>
Taneytown <sup>12</sup>	6,701	104	.700	.153	.853	1,100	8,018	97	.803	.173	.976	1,100	8,018	95	.803	.173	.976	1,100
Union Bridge	1,042	166	.173	.001	.174	200	1,507	145	.219	.001	.220	246	2,200	131	.288	.001	.289	315
Westminster	23,636	175	41.48	.675	48.23	5,000	24,271	174	421.6	.989	5,205	8,335	25,925	169	439.4	1.07	5,164	8,335

<sup>5</sup> See Appendix 3 Method for Projecting Water Supply and Sewer Demands. Note: Table 32 corresponds with MDE's required Table 32 and is therefore out of sequence with preceding and succeeding table numbers.  
<sup>6</sup> This number represents the Carroll County portion of the capacity.  
<sup>7</sup> The WWTP capacity will only increase in Manchester if/when grant funding becomes available.  
<sup>8</sup> The WWTP capacity will only increase in Manchester if/when grant funding becomes available.  
<sup>9</sup> The Priority calculations are based on the Mount Airy's pipeline allocations and were provided to the County by the Town.  
<sup>10</sup> New Windsor's Priority and Future calculations are based on 165 gal per unit for residential demand.  
<sup>11</sup> New Windsor will be eliminating this deficit by conducting an 1&I project that will recapture more than 9,000 gpd.  
<sup>12</sup> Mount Airy and Taneytown do not have any properties in the Future Planning Category.