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# Chesapeake Bay TMDL Action Plan

*MS4 General Permit Registration Number VAR040131*

Updated: September 27, 2019

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Table of Contents

Contents

A. Introduction ..... 1

    Contact Information..... 1

B. Chesapeake Bay TMDL Action Plan..... 2

    1. Current Program and Existing Legal Authority (*General Permit Part I*) ..... 2

    2. New or Modified Legal Authority (*General Permit Part II*) ..... 3

    3. Estimated Existing Source Loads and Calculated Total Pollutant of Concern (POC) Required Reductions (*General Permit Part II A 3*) ..... 3

        Table 1..... 4

        Table 2..... 5

    4. BMPs to be Implemented Prior to Permit Expiration..... 6

    5. Future projects, and associated acreage that qualify as grandfathered and methods, if developed, to offset increased loads from grandfathered projects (*Part II A 5*)..... 6

    6. Public Comments on Draft Action Plan (*GENERAL PERMIT REQUIREMENTS*) (*General Permit Section I.C.2.a.(12)*) ..... 7

        Appendix A: MS4 Boundary and TMDL Applicable Lands..... 8

        Appendix B: Summary Sheet of Planned BMPs ..... 9

        Appendix C Calculation of Septic System to Sanitary Sewer System Connection ..... 10

## A. Introduction

The Augusta County of Augusta developed this Chesapeake Bay TMDL Action Plan (Action Plan) in pursuant of the Special Conditions for the Chesapeake Bay TMDL (General Permit Part II) for the Augusta County's Municipal Separate Storm Sewer System (MS4) Permit. In the Development of this Action Plan, the Augusta County utilized the Department of Environmental Quality's Chesapeake Bay TMDL Special Condition Guidance Documents (GM 15-2005 and GM 16-2006), the General VPDES Permit for Discharges of Stormwater from Small Municipal Separate Storm Sewer Systems and the Virginia Stormwater Management Handbook Volume II - Virginia DEQ. Furthermore, the use of in-house aerial imagery, Virginia Geographic Information Network (VGIN), and other in-house GIS data was used to meet the technical requirements for the Action Plan.

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## B. Chesapeake Bay TMDL Action Plan

### 1. Current Program and Existing Legal Authority (*General Permit Part I*)

The Augusta County has reviewed the existing MS4 Program Plan, the backing legal authorities to support the plan, and the Augusta County's ability to meet compliance standards for the Special Conditions for approved TMDL. The Augusta County only required TMDL is the Chesapeake Bay TMDL. The existing MS4 Program Plan with the addition of this Action Plan and existing legal authorities will allow the Augusta County to ensure compliance with Special Conditions outlined in the General Permit.

Several components of the Augusta County's MS4 Program will be used to meet the Special Condition. The established legal documents that will be used to assist the Augusta County in meeting the Special Conditions for the approved TMDLs are located within Chapter 9 of the Augusta County Code Environmental Articles I. and II. As well as Chapter 25. Zoning Division J. Administration and Enforcement Article LXVII. Site Plan Review.

As of July 1, 2014, the Augusta County serves as a local Virginia Stormwater Management Program (VSMP) Authority. The Augusta County has consolidated the relevant ordinances into a single chapter titled: Environment. Within this chapter, there are two Articles. Article I, *Regulation of Stormwater and Erosion and Sediment Control* and Article II *Illicit Discharge Detection and Elimination*. ARTICLE I. *Regulation of Stormwater and Erosion and Sediment Control* covers the Storm Water Permit and Land Disturbing Permit along with Erosion and Sediment (E&S) Control Plan and Long-Term maintenance of permanent stormwater facilities. The Engineering staff of the Department of Community Development is responsible for the implementation and enforcement of the VSMP permit that includes the E&S Control Program. Engineering staff attends training to obtain certification at various levels provided by the Department of Environmental Quality (DEQ). This includes program administration, site inspection, and plan review. The Augusta County Ordinance reflects all state minimum standards. The article details the standard operating procedures that are followed when reviewing and approving E&S Control Plans, inspecting and monitoring land disturbing activities, and assessing penalties and injunctions. The Virginia Erosion and Sediment Control Handbook, latest edition, provides guidance for E&S measures and minimum standards (MS-19).

Engineering staff is responsible for enforcement of the Chapter 9 "Environment". The chapter is divided as such:

#### ARTICLE I. Regulation of Stormwater and Erosion and Sediment Control

- § 9-1. Purpose and authority.
- § 9-2. Definitions.
- § 9-3. Programs Established.
- § 9-4. Storm Water Permit and Land Disturbing Permit Requirement; Exemptions.
- § 9-5. Stormwater Pollution Prevention Plan; Contents of Plan.
- § 9-6. Erosion & Sediment Control Plan; Contents of Plan.
- § 9-7. Stormwater Management Plan; Contents of Plan.

- § 9-8. Pollution Prevention Plan; Contents of Plans.
- § 9-9. Additional Control Measures to Address a TMDL.
- § 9-10. Review of Submitted Plans.
- § 9-11. Technical Criteria for Regulated Land Disturbing Activities.
- § 9-12. Long-Term maintenance of permanent stormwater facilities.
- § 9-13. General drainage improvement programs and multi-jurisdictional systems.
- § 9-14. Monitoring and inspections, Notice to Comply.
- § 9-15. Hearings and appeals.
- § 9-16. Penalties, Injunctions, and other legal actions under the VESCP.
- § 9-17. Enforcement.
- § 9-18. Permits; Fees; Security for Performance.

#### ARTICLE II. Illicit Discharge Detection and Elimination

- § 9-30. Purpose and Authority
- § 9-31. Applicability.
- § 9-32. Definitions.
- § 9-33. Prohibited Discharges.
- § 9-34. Inspections and Monitoring.
- § 9-35. Enforcement and Penalties.
- § 9-36. Civil charges.

### **2. New or Modified Legal Authority (General Permit Part II)**

New or modified legal authorities, such as ordinances, permits, policy, specific contract language, orders, and interjurisdictional agreements, implemented or needing to be implemented to meet the requirements of Part II A 3, A 4, and A 5.

Modified legal authorities for the Augusta County Ordinance to reflect with state regulation changes on none significant sources of pollutants.

### **3. Estimated Existing Source Loads and Calculated Total Pollutant of Concern (POC) Required Reductions (General Permit Part II A 3)**

An estimate of the annual POC loads discharged from the existing sources as of June 30, 2009, based on the Chesapeake Bay Watershed Model Progress Run 5.3.2.

Using the best data available at the time, the Augusta County estimated the existing source. How sources were calculated is provided below. In future years, the Augusta County may update the estimate of annual POC loads when new aerial photography or improved data sources are available.

The Chesapeake Bay TMDL pollutant removal estimates provided with the Chesapeake Bay TMDL Action Plan is based on the:

- Delineation of MS4 Service Area. This delineation was completed by mapping Augusta County-owned storm sewer system and removal of other MS4 operators regulated area from the 2010 Census Urbanized Area.
- A delineation of forested areas within the MS4 area. Land Cover Data from Virginia Geographic Information Network 2016 completed this. This was refined using 2009 aerial photography and ArcGIS. 'Forested' areas based on the March, 2015 Chesapeake Bay TMDL draft guidance.

- A delineation of agricultural areas within the MS4 area. Land Cover Data from Virginia Geographic Information Network 2016 completed this. This was refined using 2009 aerial photography, zoning data, and ArcGIS. 'Forested' areas based on the March, 2015 Chesapeake Bay TMDL draft guidance.
- Impervious area delineation of parcels and Land Cover Data from Virginia Geographic Information Network 2016. This was refined using 2009 aerial photography and ArcGIS.

The Chesapeake Bay TMDL pollutant removal estimates does not include VDOT, City of Staunton, or City of Waynesboro which have MS4 permits. Properties that have VPDES Industrial Stormwater permits have been removed based on VDEQ provided data.

In future years, the Augusta County may update the estimate of annual POC loads when improved data sources are available.

**Table 1**

<b>Land Use Data</b>	
<b>Agricultural land</b>	1,172
<b>Entering State waters Without Conveyance System</b>	3,042
<b>Forested</b>	574
<b>Identified Conveyance System</b>	2,674
<b>Open Water</b>	18
<b>Other MS4</b>	1,380
<b>Land Cover Data</b>	
<b>Barren</b>	30
<b>Cropland</b>	182
<b>Forest</b>	988
<b>Impervious Extracted</b>	1,261
<b>Impervious Local Datasets</b>	719
<b>NWI/Other</b>	17
<b>Open Water</b>	17
<b>Pasture</b>	1,814
<b>Shrub/Scrub</b>	113
<b>Tree</b>	742
<b>Turf Grass</b>	2,999

Total Land in MS4 Regulated Area	2498
Pervious MS4 Regulated	<b>1362</b>
Impervious MS4 Regulated Land	<b>847</b>

*Existing Source Loads*

The Augusta County's source loads were calculated using *Table 3b: Calculation for Estimating Existing Source Loads and Reduction Requirements for the Potomac River Basin* in the 2018-2023 General Permit.

The Augusta County's MS4 General Permit required POC reductions (40% of L2 Scoping Run) were calculated using the created MS4 regulated area data.

<b>Table 2</b>								
Calculation Sheet for Estimating Existing Source Loads and Reduction Requirements for the Potomac River Basin								
Pollutant	Subsource	A Loading rate (lbs/ac/yr) <sup>1</sup>	B Existing developed lands as of 6/30/09 served by the MS4 within the 2010 CUA	C Load (lbs/yr) <sup>3</sup>	D Percentage of MS4 required Chesapeake Bay total L2 loading reduction	E Percentage of L2 required reduction by 6/30/2023	F 40% cumulative reduction required by 6/30/2023 (lbs/yr) <sup>4</sup>	G Sum of 40% cumulative reduction (lb/yr) <sup>5</sup>
Nitrogen	Regulated urban impervious	16.86	847	14,281	9%	40%	514	843
	Regulated urban pervious	10.07	1,362	13,711	6%	40%	329	
Phosphorus	Regulated Urban Impervious	1.62	847	1,372	16%	40%	88	104
	Regulated urban pervious	0.41	1,362	558	7.25%	40%	16	
Total suspended solids	Regulated urban impervious	1171.32	847	992,156	20%	40%	79,373	87,750
	Regulated urban pervious	175.8	1,362	239,363	8.75%	40%	8,378	
1Edge of stream loading rate based on the Chesapeake Bay Watershed Model Progress Run 5.3.2								
2To determine the existing developed acres required in Column B, permittees should first determine the extent of their regulated service area based on the 2010 Census urbanized area (CUA). Next, permittees will need to delineate the lands within the 2010 CUA served by the MS4 as pervious or impervious as of the baseline date of June 30, 2009.								



3Column C = Column A x Column B.
4Column F = Column C x Column D x Column E.
5Column G = The sum of the subsource cumulative reduction required by 6/30/23 (lbs/yr) as calculated in Column F

#### 4. BMPs to be Implemented Prior to Permit Expiration

*The list of BMPs to be implemented prior to July 1, 2023 (permit expiration), to meet the cumulative reductions calculated based on the permit methodology and shown below in Table 7*

Appendix B outlines the Augusta County's proposed BMPs that to be implemented to meet the required reductions outlined above in Table 2. Where available more in-depth information, including percent removal efficiencies for each pollutant of concern, is located in the appendix item for each BMP.

Additional BMPs necessary to meet the required reductions will be identified based on the Stormwater Improvement Plan. This TMDL Action Plan will use the adaptive management approach so that if better practices are identified, the Augusta County may substitute alternative practices. Any substitutions or additions will be reported to DEQ in future annual reports and this TMDL Action Plan submittal. Permanent and temporary water quality trading credits and all planned BMP projects and programs be outlined in Appendix B: Summary Sheet of Planned BMPs.

#### 5. Future projects, and associated acreage that qualify as grandfathered and methods, if developed, to offset increased loads from grandfathered projects (Part II A 5)

*No later than the expiration date of this permit, the permittee shall offset the increased loads from projects grandfathered in accordance with 9VAC25-870-48 that begin construction after July 1, 2014, if the following conditions apply:*

- a. The activity disturbs one acre or greater; and*
- b. The resulting total phosphorous load was greater than 0.45 lb/acre/year, which is equivalent to an average land cover condition of 16% impervious cover.*

The Augusta County has two projects inside the MS4 area and is considered Grandfathered projects from DEQ. The projects have not been started and load reductions will be addressed when or if the development is ever planned.

Molla Mill Office Park, ESC11009, was originally submitted in 2011 and has yet been readdressed the proposed 4.80 acres project. The project has been moved to on hold until further notice statues. The second project Community Fellowship Church, ESC08006, has a total of 18.42 acres to be disturbed for construction and with plans approved on 11/10/2008. The Church has already build in a different location and the project has been moved to on hold until further notice statues.

**6. Public Comments on Draft Action Plan (GENERAL PERMIT REQUIREMENTS)  
(General Permit Section I.C.2.a.(12))**

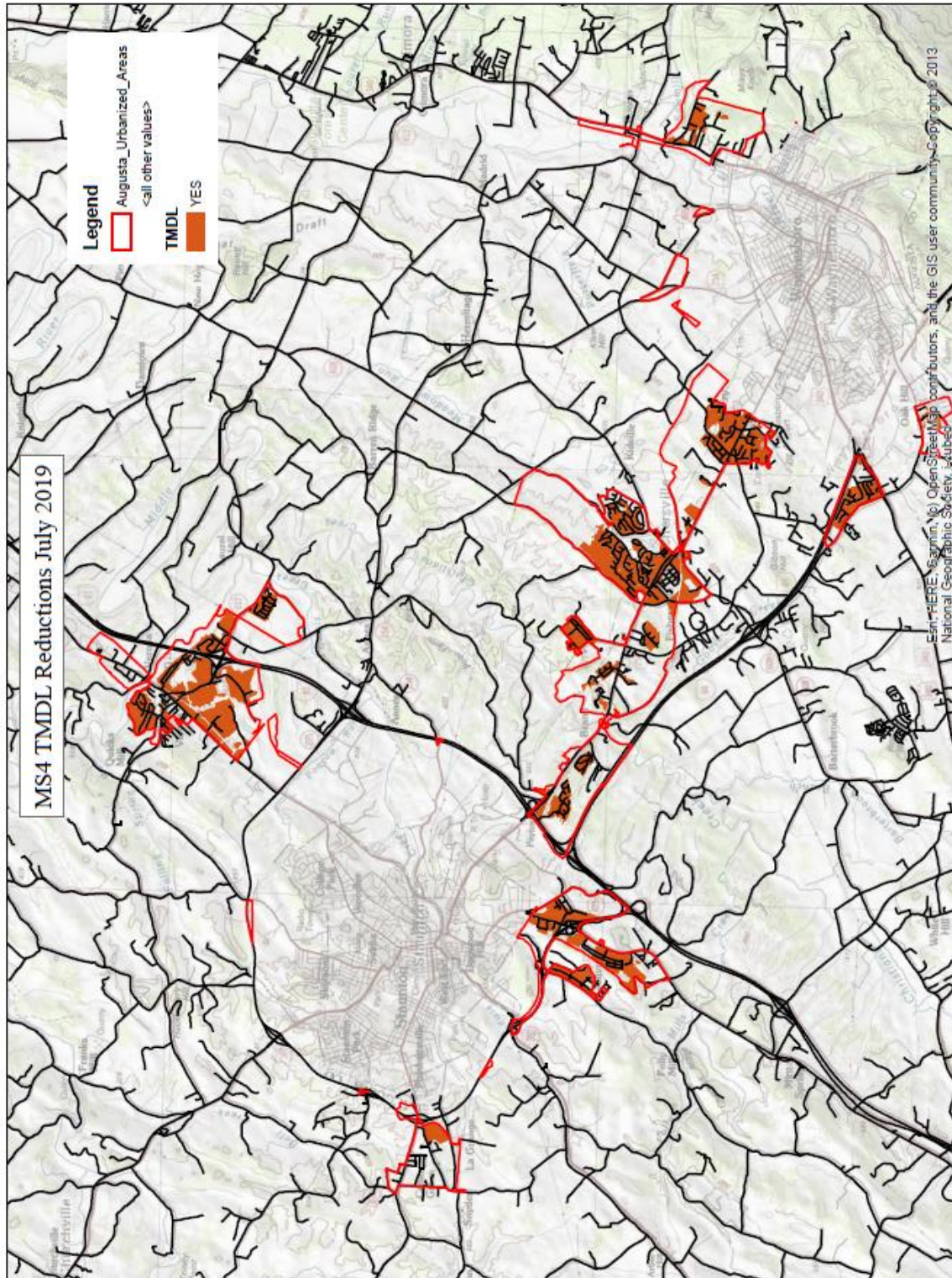
*An opportunity for receipt and consideration of public comment regarding the draft Chesapeake Bay TMDL Action Plan.*

The Augusta County will present the Draft Action Plan at the Augusta County Board of Supervisors and will be open for comment for a minimum of 15-day comment period before being approved. Public comment periods will be noted as applicable.

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### Appendix A: MS4 Boundary and TMDL Applicable Lands

A Map showing the updated 2019 MS4 boundary land applicable for TMDL reductions.



## Appendix B: Summary Sheet of Planned BMPs

Name	Type	TP (lb./yr.)	TN (lb./yr.)	TSS (lb./yr.)	Estimated Cost	\$/LB P	% of 2023 P Requirement	% of 2023 N Requirement	% of 2023 TSS Requirement	% of 2028 P Requirement	% of 2028 N Requirement	% of 2028 TSS Requirement
Septic to Sanitary Sewer 2019 added	Septic to Sanitary Connection	0	248.05	0	\$0	NA	0.0%	29.4%	0.0%	0.0%	11.8%	0.0%
Septic to Sanitary Sewer 2021 added	Septic to Sanitary Connection	0	2507.95	0	\$0	NA	0.0%	297.5%	0.0%	0.0%	119.0%	0.0%
Cold Springs Nutrient Bank	Stream Restoration Credits	50	148.00	81346	\$387,250	\$7,745	48.1%	17.6%	92.7%	19.2%	7.0%	37.1%
Mt. Solon location 1	Stream Restoration	320	750	510430	\$810,000	\$2,531	307.7%	89.0%	581.7%	123.1%	35.6%	232.7%
Mt. Solon location 2	Stream Restoration	900	2050	1393770	\$2,213,400	\$2,459	865.4%	243.2%	1588.3%	346.2%	97.2%	635.3%
Mt. Solon location 3	Stream Restoration	170	390	265400	\$421,500	\$2,479	163.5%	46.3%	302.5%	65.4%	18.5%	121.0%
<b>Totals/Avg</b>		<b>1440</b>	<b>6094</b>	<b>2250946</b>	<b>\$3,444,900</b>	<b>\$2,490</b>	<b>1384.6%</b>	<b>722.9%</b>	<b>2565.2%</b>	<b>553.8%</b>	<b>289.1%</b>	<b>1026.1%</b>
<small>Mt. Solon location 1: 2,700 linear feet                      Mt. Solon location 2: two phases totalling 7,378 linear feet                      Mt. Solon location 3: 1,405 linear feet</small>												

## Appendix C Calculation of Septic System to Sanitary Sewer System Connection

**Credit:** Verified septic system to sanitary sewer system connections: 45 connections from 2009-2019 U.S. Census Bureau Persons per household: 2.61 Persons per household in the County of Augusta. The assumed average load of TN at the edge of the septic drain field is 9.19 lbs. TN/year/person with an attenuation factor from edge of drain field to edge of stream resulting in a TN load of 3.52 lbs. TN/year/person at the edge of stream.

### Total Nitrogen

$3.52 \text{ lb/TN/year/person} * 2.61 \text{ persons/household} = 9.19 \text{ lbs TN/year/household}$   
 $\text{TN Credit} = 9.19 \text{ lbs TN/year/household} * 300 \text{ households} = 2,756 \text{ lbs TN}$

LID	Address	3,276	68 WESTOVER DR	334	110 GREENVIEW DR
68,022	50 GREENVIEW DR	3,244	2513 JEFFERSON HWY	320	10 SEBRING CT
62,372	145 CONFEDERATE ST	3,074	74 OLD WHITE BRIDGE	304	46 GREENVIEW DR
58,792	520 OLD GREENVILLE RD			288	17 GREENVIEW DR
46,342	2078 JEFFERSON HWY	3,070	42 OLD WHITE BRIDGE		9 DODGE ST
21,408	50 EAST SIDE HWY	3,050	20 AVON AVE		125 HODGE ST
21,398	25 EAST SIDE HWY	3,048	21 AVON AVE		124 HODGE ST
18,266	414 PARKERSBURG TPKE	3,032	55 AVON AVE		78 HODGE ST
17,660	84 SUNSET BLVD	3,026	76 AVON AVE		80 HOWARDSVILLE TPKE
17,164	61 FIRST ST	3,020	78 AVON AVE		118 HODGE ST
17,080	225 ORCHARD RD	3,000	152 OLD WHITE BRIDGE		66 CONFEDERATE ST
15,422	25 ROLLA MILL RD				10 NORTHSIDE DR
15,270	73 VERONA COURT BLVD	2,958	162 KINGSBURY DR		59 HODGE ST
14,696	457 ROUND HILL DR	2,952	143 KINGSBURY DR		52 KINGSBURY DR
14,684	137 CONFEDERATE ST	2,940	118 KINGSBURY DR		29 GISH LN
14,680	42 MEMORIAL ST	2,924	79 KINGSBURY DR		2419 JEFFERSON HWY
13,970	33 ADAMS LN	2,922	76 KINGSBURY DR		179 WAYSIDE DR
13,916	200 PACKAGING DR	2,870	2352 JEFFERSON HWY		262 DRAFT AVE
4,036	164 SUNSET DR	2,298	46 TINKLING SPRING RD		441 ROUND HILL DR
3,926	12 SOUTH VIEW DR	2,094	20 OAK ST		83 PAINTER LN
3,916	43 GRANDVIEW DR	1,404	1548 JEFFERSON HWY		95 DODGE ST
3,318	58 OVERLOOK RD	596	26 BIRCHWOOD RD		150 RIDGEVIEW DR

1655 JEFFERSON HWY	81 AVON AVE	32 GREENVILLE SCHOOL RD
65 GREENVIEW DR	105 AVON AVE	70 MAIN ST
114 OLD WHITE BRIDGE RD	3236 LEE HWY	74 MAIN ST
128 KINGSBURY DR	15 KING RICHARD RD	54 MAIN ST
78 OLD WHITE BRIDGE RD	106 AVON AVE	94 MAIN ST
195 ORCHARD RD	97 PATRIOT DR	92 MAIN ST
3 VIRGINIA AVE	98 KINGSBURY DR	98 MAIN ST
10 FISHERSVILLE RD	2358 STUARTS DRAFT HWY	32 LEA DR
27 MOUNTAIN VIEW DR	62 FIRST ST	80 MAIN ST
117 HODGE ST	50 AVON AVE	92 GREENVILLE SCHOOL RD
50 CARDINAL LN	116 CAMBRIDGE DR	57 GREENVILLE SCHOOL RD
581 LEE JACKSON HWY	521 BATTLEFIELD RD	101 GREENVILLE SCHOOL RD
156 ORCHARD RD	24 CLICK RD	119 GREENVILLE SCHOOL RD
135 VIRGINIA AVE	221 MEDICAL CENTER CIR	130 GREENVILLE SCHOOL RD
1533 LEE HWY	45 TURK MOUNTAIN LN	91 GREENVILLE SCHOOL RD
47 GISH LN	33 ARCHERY LN	123 GREENVILLE SCHOOL RD
14 LINDEN ST	904 PATTON FARM RD	39 GREENVILLE SCHOOL RD
570 AUGUSTA FARMS RD	115 RIVERSIDE AVE	134 GREENVILLE SCHOOL RD
187 VALLEY VIEW AVE	533 BATTLEFIELD RD	4214 LEE JACKSON HWY
136 KINGSBURY DR	97 VIRGINIA AVE	4224 LEE JACKSON HWY
530 LEE JACKSON HWY	132 SEAWRIGHT SPRINGS RD	46 WRIGHT LN
51 TROXELL LN	37 CRUMMETT LN	33 WRIGHT LN
149 ORCHARD RD	903 AUGUSTA FARMS RD	45 WRIGHT LN
2371 LEE HWY	17 VIA LN	51 WRIGHT LN
164 KINGSBURY DR	3171 STUARTS DRAFT HWY	61 WRIGHT LN
46 HOUFF RD	787 JEFFERSON HWY	4263 LEE JACKSON HWY
304 LEE HWY	381 LEE HWY	139 GREENVILLE SCHOOL RD
3029 STUARTS DRAFT HWY	77 GREENVIEW DR	126 MAIN ST
2443 STUARTS DRAFT HWY	28 GREENVILLE SCHOOL RD	13 SHULTZ LN

141 MAIN ST	125 MAIN ST	91 GRAHAM ST
21 GREENVILLE SCHOOL RD	1071 DICES SPRING RD	57 PALMER ST
31 SHULTZ LN	50 INDIAN RIDGE RD	81 GRAHAM ST
4275 LEE JACKSON HWY	26 MAIN ST	20 WEST VIEW ST
4260 LEE JACKSON HWY	20 GRAHAM ST	78 CHURCH ST
4237 LEE JACKSON HWY	17 GRAHAM ST	320 LEE JACKSON HWY
4245 LEE JACKSON HWY	44 STUART AVE	5 ORCHARD DR
71 INDIAN RIDGE RD	4137 LEE JACKSON HWY	997 BATTLEFIELD RD
4277 LEE JACKSON HWY	7 GRAHAM ST	19 TRAP LN
84 INDIAN RIDGE RD	20 CHURCH ST	17 BLACKSMITH SHOP RD
68 INDIAN RIDGE RD	67 MAIN ST	19 BLACKSMITH SHOP RD
87 INDIAN RIDGE RD	115 MAIN ST	4171 LEE JACKSON HWY
2349 LEE HWY	15 CHURCH ST	72 STOVER SCHOOL RD
27 INDIAN RIDGE RD	757 BATTLEFIELD RD	9 SHULTZ LN
148 MAIN ST	12 STOVER SCHOOL RD	20 STOVER SCHOOL RD
922 KEEZLETOWN RD	110 MAIN ST	24 BLACKSMITH SHOP RD
4250 LEE JACKSON HWY	39 CHURCH ST	10 WEST VIEW ST
26 SHULTZ LN	63 GRAHAM ST	20 BLACKSMITH SHOP RD
51 INDIAN RIDGE RD	48 CHURCH ST	37 STOVER SCHOOL RD
111 INDIAN RIDGE RD	31 CHURCH ST	105 OLD STAUNTON RD
93 INDIAN RIDGE RD	76 GRAHAM ST	57 MAIN ST
4136 LEE JACKSON HWY	51 CHURCH ST	7 SHULTZ LN
81 MAIN ST	58 GRAHAM ST	96 GRAHAM ST
109 MAIN ST	43 CHURCH ST	3 CHURCH ST
32 INDIAN RIDGE RD	56 GRAHAM ST	41 PALMER ST
4100 LEE JACKSON HWY	963 LAUREL HILL RD	51 PALMER ST
95 MAIN ST	57 CHURCH ST	70 WEST VIEW ST
713 BATTLEFIELD RD	65 GRAHAM ST	54 EAST SIDE HWY
71 MAIN ST	36 CHURCH ST	1548 JEFFERSON HWY



110 GREENVIEW DR	34 VIRGINIA AVE	572 AUGUSTA FARMS RD
4033 LEE JACKSON HWY	1818 JEFFERSON HWY	16 KINMONT DR
887 SANGERS LN	117 WAYSIDE DR	916 LEE HWY
4129 LEE JACKSON HWY	3337 STUARTS DRAFT HWY	28 DRAFT AVE
4201 LEE JACKSON HWY	49 EASTOVER BLVD	2003 GOOSE CREEK RD
25 VIRGINIA AVE	13 MARBLE DR	
30 WAYNE AVE	134 WILSON BLVD	
165 LOFTY CIR	2446 STUARTS DRAFT HWY	
58 MAIN ST	57 WAYSIDE DR	
34 WRIGHT LN	21 GRAHAM ST	
73 STOVER SCHOOL RD	114 HOWARDSVILLE TPKE	
13 CELEBRITY LN	159 HOWARDSVILLE TPKE	
41 MIDVALE DR	55 HOWARDSVILLE TPKE	
83 LOCUST GROVE LN	304 LEWIS CREEK RD	
81 ORCHARD HILL CIR	33 ROLLER AVE	
61 FIRST ST	1126 GOOSE CREEK RD	
137 RIDGEVIEW DR	119 RIDGEVIEW DR	
51 MAIN ST	1335 KEEZLETOWN RD	
50 HODGE ST	11 WEYLAND LN	
13 FOREST SPRINGS DR	3265 STUARTS DRAFT HWY	
32 LUMBER YARD LN	30 LADD RD	
156 STUART AVE	58 RIDGEVIEW DR	
147 HODGE ST	22 DODGE ST	
48 STUART AVE	2482 JEFFERSON HWY	
17 GREENVIEW DR	94 HOWARDSVILLE TPKE	
33 ADAMS LN	641 LEE JACKSON HWY	
110 HODGE ST	155 STUART AVE	
505 LEE JACKSON HWY	58 SUNSET DR	
172 ELLIOT ST	109 DODGE ST	