



THE SEVERN RIVER ASSOCIATION

BOX 146 • ANNAPOLIS, MD 21404 • severnriver.org • 443-569-3556 voicemail

(Emails @severnriver.org)

Officers:

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First Vice President

Bob Whitcomb
410-849-3072
vicepresident1@

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410-224-8842
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Treasurer

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Communications Secretary

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Member Communities:

Admiral Heights Imprv Assoc
Annapolis Roads Prop Own Assoc
Annapolis Rowing Club
Arden Civic Association
Arnold Preservation Council
Bellevue Estates Comm Assoc
Belvoir Farms Homeowners Assoc
Bembe Beach Association
Ben Oaks Civic Association
BluffPoint Community Assoc
Brown's Pond Improvement Assoc
Burley Creek Community Assoc
Carrollton Manor Imprv Assoc
Colchester Community Assoc
Downs Property Owners Assoc
E. Pendennis Mount Comm Assoc
Fairwinds Beach Club, Inc.
Ferry Farms Improvement Assoc
Glen Oban Association, Inc.
Herald Harbor Citizens Assoc
Holly Point Community Assoc
Hollywood on Severn Imp Assoc
Indian Hills Community Assoc
Kensington Community Assoc
Lake Forest Community Assoc
Lindamoor Improvement Assoc
Maynadier Homeowners Assoc
Murray Hill Residents Association
Olde Severna Park Impr Assoc
Oyster Harbor Citizens Assoc
Pines Community Impr Assoc
Point Field Landing Community
Saefern Saddle & Yacht Club
SaltworksonSevern Citizens Assoc
Severn River Garden Club
Severn View HOA
Severna Forest Community Assoc
Sherwood Forest
Shipleys ChoiceCommunity Assoc
Spa Creek Conservancy
Trollhaven Homeowners Assoc
West Annapolis Civic Association
Winchester on the Severn
Whitehall Bay Conservancy

May 8, 2012

Honorable John R. Leopold
2014 Arundel Center
44 Calvert Street
Annapolis, MD 21404-1831

Dear County Executive Leopold:

Last Saturday, 26 volunteers participated in a Rain Garden-Bioretenion Evaluation training session at the West County Library. We focused on Rain Gardens and Bioretention facilities because they are the most effective measures in protecting the Severn and her tributaries from the impact of stormwater pollution from homes, businesses and other impervious surfaces. The volunteers attempted to evaluate the condition of 30 facilities within the Severn River watershed. Overall, the volunteers found a third of the facilities were in good condition. However, 43% were in poor condition (providing essentially no water quality protection) or could not be found. In prior surveys of all stormwater facilities, we've found a third to 100% to have failed depending upon type. Enclosed is a letter to Mr. John Peacock providing further details on the findings from the survey last Saturday.

We believe these disturbing findings are not due to any lack of dedication or effort on the part of County staff. Instead, we view this as an ongoing result of the decision made by a prior administration a decade ago to cut back the County's stormwater inspection staff by 86%.

At that time the County had about 7,000 stormwater Best Management Practices (BMPs). Since each of the County's seven inspectors could evaluate about a thousand facilities a year, this balanced work load likely resulted in maintenance of most BMPs in a condition that maximized aquatic resource benefits. However, since the 2001 cut-back from seven inspectors to one, inspections have been far less frequent. The subsequent lack of maintenance is a large part of the reason why so many of the most effective BMPs are now failing.

Recently, the Maryland General Assembly passed House Bill 987, which requires Anne Arundel and nine other jurisdictions to provide adequate funding for managing stormwater pollution. I understand the County is now putting

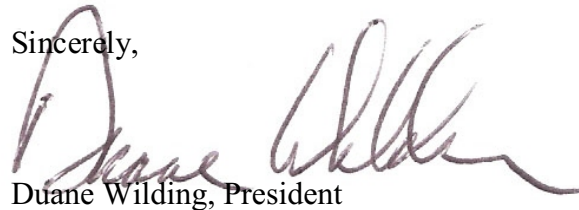
Honorable John R. Leopold
May 8, 2012
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together a program to meet the requirements of HB 987. If this is correct then we urge the County to make restoration of stormwater inspection capabilities the priority use of these funds.

In the Severn River watershed there are more than 2,000 stormwater BMPs which cost in excess of \$100 million to install. Yet the lack of inspection and maintenance is causing this irreplaceable infrastructure to deteriorate. We cannot think of any other use of these public dollars that would reap greater benefits than restoring inspection capabilities.

In the Severn watershed 83% of the BMPs are maintained by the businesses, institutions or communities each serves. So the only *public cost* is a regular inspection by county personnel. Each inspection costs about \$150. For a fraction of the \$50,000 it costs to install a new restoration practice, the County can keep three hundred or so existing BMPs functioning. It is for these reasons that we urge you to make restoration of the County's stormwater inspection capabilities a priority as additional funds become available.

Sincerely,



Duane Wilding, President

cc: Honorable John J. Grasso, Anne Arundel County Council
Honorable G. James Benoit, Anne Arundel County Council
Honorable Chris Trumbauer, Anne Arundel County Council
Honorable Dick Ladd, Anne Arundel County Council
Honorable Tony McConkey, Maryland House of Delegates
Honorable Cathleen M. Vitale, Maryland House of Delegates
Honorable Pamela G. Beidle, Maryland House of Delegates
Honorable Mary Ann Love, Maryland House of Delegates
Honorable Theodore J. Sophocleus, Maryland House of Delegates
Honorable Ronald A. George, Maryland House of Delegates
Honorable Herbet H. McMillan, Maryland House of Delegates
Honorable Michael E. Busch, Maryland House of Delegates
Honorable John C. Astle, Maryland Senate
Honorable James E. DeGrange, Maryland Senate
Honorable Edward R. Reilly, Maryland Senate
Robert C. Hubbard, Director of Inspections and Permits
George Eberle, Assistant Director-Environmental Programs & Infrastructure Inspections

Honorable John R. Leopold
May 8, 2012
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Ronald E. Bowen, Director of Public Works
Fred Kelley, Severn RiverKeeper
Lina Vlavianos, Severn River Commission
Fred Tutman, Patuxent RiverKeeper
Paul Spadaro, Magothy River Association, Inc.
David Prosten, Anne Arundel County Sierra Club
Al Tucker, Chesapeake Environmental Protection Association
Harry Coulombe, Friends of Jug Bay
Alison Prost, Chesapeake Bay Foundation
Erik Michelsen, South River Federation
Volunteers Who Conducted Survey:

Al Todd
Alyce Ortuzar
Ann Jackson
Bess Trout
Catherine Langston
Charlotte Lubbert
Christina Vieglais
Claire Muerdter
Dick Spencer
Dory Tate
Duane Wilding
John Wright
Josh Mah
Kelly Fieldhouse
Kit Gage
Lara Mulvaney
Laura Mehiel
Lynne Rockenbauch
Mridula Gupta
Nora Terres
Pam Wood
Phelps Kelly
Sharon Schroer
Siobhan Percey
Suzanne Etgen
Tom Zolper



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Severn View HOA

Severna Forest Community Assoc

Sherwood Forest

Shipleys ChoiceCommunity Assoc

Spa Creek Conservancy

Trollhaven Homeowners Assoc

West Annapolis Civic Association

Winchester on the Severn

Whitehall Bay Conservancy

John Peacock, Chief
Infrastructure & Environmental Programs Division
Department of Inspections & Permits
2664 Riva Road
Annapolis, Maryland 21401

RE: Severn Rain Garden Survey

Dear Mr. Peacock:

Last Saturday, 26 volunteers participated in a Rain Garden-Bioretenion Evaluation training session at the West County Library. We focused on Rain Gardens and Bioretention facilities because they are the most effective measures in protecting the Severn and her tributaries from the impact of stormwater pollution from homes, businesses and other impervious surfaces.

The volunteers attempted to evaluate the condition of 30 facilities within the Severn River watershed. Overall, the volunteers found a third of the facilities were in good condition. However, 43% were in poor condition (providing essentially no water quality protection) or could not be found.

We know that these appalling results are not due to any lack of dedication or effort on the part of you or your staff. Instead, it is due to a decision by a prior administration to cut back the County's stormwater inspection capabilities by 86%. We have sent a separate letter to County Executive Leopold calling upon him to make restoration of inspection capabilities a priority as additional funds become available via House Bill 987 and other sources.

Following is further detail regarding the findings from the survey.

MISSING BMPs

Several of the facilities listed in the Excel file provided by the Department of Public Works could not be found.

Odenton Business Park has four bioretention facilities according to the Excel file (Structure ID: 8151, 11042, 11043 and 11044). The volunteers found 11042, which lacks mulch. The other three could not be found, though we think 8151 was located in from of #109 but has been filled in with mulch.

Mr. John Peacock
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One of the volunteers knows a tenant of this park quite well and believes she could convince them to use their influence with the owners to restore 8151.

If you would like the volunteer to pursue this then could I trouble you for the plans?

We could not find Structures 11043 and 11044. The Excel file indicates both were built in 2010.

Could we trouble you for the plans for these facilities (11043-11044) as well?

Severn Inn is supposed to be served by two bioretention facilities (Structure ID: 6053-6054) as a result of redevelopment which occurred in 2005. We could not find either.

Do the approved redevelopment plans show two bioretention facilities?

If yes, could we trouble you for a copy?

During their visit last Saturday, our volunteers bumped into the Severn Inn owner. After explaining what they were doing and why bioretention is so important to the river, their impression was that the owner grew rather concerned that they could not find the facilities. There is a possibility that he might voluntarily restore the BMPs if the plans verify that they were supposed to be built. Of course we do not wish to intrude upon your jurisdiction but offer this as a way of initiating corrective action more quickly than might be the case given limited County resources.

Other Facilities were not found probably because they serve an individual home and were not visible from the adjoining road. Following is the Structure ID for these facilities: 6771, 6781, 7806, 8110, 8761, 8764, 8941, 9613, 10406, 10881, 10937, 10938, 11018, 11054 and 11379.

Incorrect Coordinates were found for the facilities (7171 and 7172) serving Severn Commons, at 8666 Veterans Highway. Also, there are three bioretention facilities serving this site, while the Excel file lists only two.

ISSUES

At the end of this letter is a five-page table listing the 13 characteristics evaluated at each facility. A "1" in the "No" column indicates that the facility on that row had a shortcoming affecting performance. The remainder of the letter will address these characteristics. A compilation of the checklists completed by the volunteers for each facility is posted at:

http://ceds.org/severn/Rain_Garden_Survey_Checklists_5-5-12.pdf

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The guidance document explaining how volunteers were to evaluate each characteristic is posted at: <http://ceds.org/raingarden/RainGardenAuditGuidance.pdf>

Appearance

One of the long range goals of this effort is to increase participation in Rain Garden care among nearby residents. Making these facilities as attractive as possible is, of course, critical to this goal. Of the 27 facilities, the attractiveness of 12 was an issue. However, part of this was due to the presence of trash which the volunteers removed for the most part last Saturday.

Soil Erosion

The volunteers noted areas of exposed, eroding soil within the drainage area of 11 facilities. The sediment eroded from these sources could rob the facilities of critical storage area.

Facility Drainage Area

The volunteers looked for debris or other factors which might impede the flow of impervious surface runoff to a facility. Issues were noted at three facilities.

Standing Water & Wetland Vegetation

Standing water usually drains from the surface of a Rain Garden or bioretention facility within six hours and a maximum of 48 hours. On May 3rd there was 0.04 inches of precipitation at BWI airport and none on May 4th. The weather was clear on May 5th so there should not have been standing water in any facility. However, volunteers noted the presence of water in seven of the facilities. Six of the facilities had wetland vegetation, indicating they are holding water for extended periods.

Storage Capacity

Maryland stormwater guidance allows bioretention facilities to have a storage area with a depth of up to 12 inches. We assume most plans call for this maximum depth since it reduces the amount of a site occupied by stormwater facilities. Given this we also assumed that if a facility had an average depth of six inches or less it was probably in need of cleaning. Nine of the facilities lacked a minimum of six inches of storage.

The volunteers also looked for anything else that might prevent the facilities from treating the first inch of runoff. They found issues at 20 of the facilities. For example, one storm drain inlet had a V-notch cut into it (6882). The owner said this was done at the County's direction.

Mulch Condition

The volunteers spent considerable time discussing the role that mulch plays as one of the most important components of a facility. They cited scientific research documenting the higher

Mr. John Peacock
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nitrogen removal rate achieved in a facility with the two-inch minimum layer of seasoned hardwood mulch required by the *Maryland Stormwater Design Manual*. They also recognized the importance of mulch in maintaining permeability. Only ten of the facilities had a minimum of two inches of mulch present.

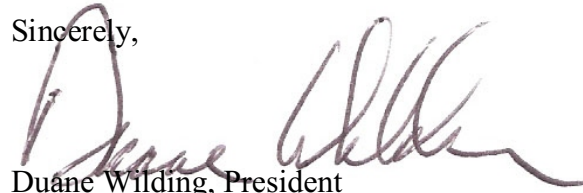
Monitoring Wells

Seventeen of the facilities had monitoring wells, only one of which was lacking a cap.

CLOSING

On behalf of our 26 volunteers and the Severn River Association, I would like to thank you and the other County officials for all of the help provided in pulling this survey together.

Sincerely,



Duane Wilding, President

cc: Honorable John R. Leopold
Honorable John J. Grasso
Honorable G. James Benoit
Honorable Chris Trumbauer
Honorable Dick Ladd
Robert C. Hubbard, Director of Inspections and Permits
George Eberle, Assistant Director-Environmental Programs & Infrastructure Inspections
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Pam Wood
Phelps Kelly
Sharon Schroer
Siobhan Percey
Suzanne Etgen
Tom Zolper

Severn River Rain Garden Survey - 5 May 2010

Structure ID	Structure Name	Surveyed By	Number of Facilities	Address	City	Zip
6053	Severn Inn	Christina Vieglais, Bess	1	1993 Baltimore Annapolis Boulevard	Annapolis	21402
6054	Severn Inn	Trout & Tom Zolper	1	1993 Baltimore Annapolis Bl	Annapolis	21402
6613	Housely Professional Building	John Wright, Charlotte	2	2553 Housley Road	Annapolis	21401
9326	Sam's Club Fueling Station	Lubbert & Mridula Gupta	1	2100 Generals Highway	Annapolis	21401
6747	Sheehy Infinity/Lexus	Ann Jackson & Dory Tate	1	121 Ferguson Road	Annapolis	21401
6747	Sheehy Infinity Backlot		1	121 Ferguson Road	Annapolis	21401
6747	Sheehy Infinity		1	121 Ferguson Road	Annapolis	21401
7272	Annapolis Land Rover/Jaguar		1	101 Ferguson Road	Annapolis	21401
6780	Broadneck Park/ Expansion	Phelps Kelly & Dick	1	1001 College Parkway	Annapolis	21401
C	Smartlink	Spencer	1	1449 Whitehall Road	Annapolis	21409
7571A	Severn Commons	Kelly Fieldhouse & Al Todd	1	8666 Veterans Highway	Millersville	21108
7572	Severn Commons		1	8666 Veterans Highway	Millersville	21108
7571	Severn Commons		1	8666 Veterans Highway	Millersville	21108
8139	Annapolis Exchange, Parcel 465	Kit Gage & Claire Muerdter	1	1989 Annapolis Exchange Parkway	Annapolis	21401
8140	Annapolis Exchange, Parcel 465		1	1989 Annapolis Exchange Parkway	Annapolis	21401
10582A	Village Green of Annapolis	Laura Mehiel	1	Forest Drive at South Cherry Grove Avenue	Annapolis	21403
10582B	Village Green of Annapolis		1	Forest Drive at South Cherry Grove Avenue	Annapolis	21403
7598	Monticello	Siobhan Percey & Catherine	1	830 Bestgate Road	Annapolis	21401
D	TD Bank	Langston	1	2103 Commerce Park Dr. @ Bestgate Rd	Annapolis	21401
8151	Odenton Business Park, Lot 3	Lara Mulvaney, Sharon	1	8270 Lokus Road	Odenton	21113
11042	Odenton Business Park, Lot 1	Schroer & Nora Terres	1	8274 Lokus Road	Odenton	21113
9213North	Anne Arundel Medical Park	Suzanne Etgen, Lynne	1	2001 Medical Pky	Annapolis	21401
9213South	Anne Arundel Medical Park	Rockenbauch & Alyce	1			
7403	Crownsville Town Center	Ortuzar	1	1321 Generals Highway	Crownsville	21032
6882	C&C Motorcycles	Lara Mulvaney, Sharon	1	8182 Telegraph Road	Odenton	21113
7648	Severn Baptist Church	Schroer & Nora Terres	1	8187 Telegraph Road	Severn	21144
10250	Catholic Charities Odenton II	Duane Wilding, Pam Wood & Josh Mah	1	1208 Odenton Road	Odenton	21113
10251	Catholic Charities Odenton II		1	1208 Odenton Road	Odenton	21113
10252	Catholic Charities Odenton II		1	1208 Odenton Road	Odenton	21113
TOTAL			30			

Severn River Rain Garden Survey - 5 May 2010

Structure Name	Structure ID	Photos Taken		Type of Site				Free of Dead, Dying Vegetation		Free of Trash, Debris	
		Yes	No	Res	Comm	Inst	Other	Yes	No	Yes	No
Severn Inn	6053	1			1				1		1
Severn Inn	6054	1			1			1		1	
Housely Professional Building	6613	1			1			1		1	
Sam's Club Fueling Station	9326	1			1			1			1
Sheehy Infinity/Lexus	6747	1			1			1		1	
Sheehy Infinity Backlot	6747				1			1		1	
Sheehy Infinity	6747	1			1			1		1	
Annapolis Land Rover/Jaguar	7272	1			1			1		1	
Broadneck Park/ Expansion	6780	1					Park	1		1	
Smartlink	C	1			1			1		1	
Severn Commons	7571A	1			1			1			1
Severn Commons	7572	1			1			1		1	
Severn Commons	7571	1			1			1		1	
Annapolis Exchange, Parcel 465	8139	1			1				1	1	
Annapolis Exchange, Parcel 465	8140	1			1				1		1
Village Green of Annapolis	10582A	1			1			1			
Village Green of Annapolis	10582B	1					R-O-W	1		1	
Monticello	7598	1		1				1			1
TD Bank	D	1			1			1			1
Odenton Business Park, Lot 3	8151				1			1			1
Odenton Business Park, Lot 1	11042	1			1				1		1
Anne Arundel Medical Park	9213North	1			1			1			1
Anne Arundel Medical Park	9213South	1			1			1		1	
Crownsville Town Center	7403	1			1				1		1
C&C Motorcycles	6882				1				1	1	
Severn Baptist Church	7648					1			1	1	
Catholic Charities Odenton II	10250	1				1		1		1	
Catholic Charities Odenton II	10251	1				1		1		1	
Catholic Charities Odenton II	10252	1				1		1		1	
		25	0	1	22	4	0	22	7	18	10

Severn River Rain Garden Survey - 5 May 2010

Structure Name	Structure ID	Free of Other Appearance Issues		No Soil Erosion in Drairage Area		Runoff Can Clearly Flow from IA to Facility		Facility Surface Dry; No Water Present		Surface Depressed ≥6 inches	
		Yes	No	Yes	No	Yes	No	Yes	No	Yes	No
Severn Inn	6053	1		1		1			1		
Severn Inn	6054	1	1	1		1		1			1
Housely Professional Building	6613	1		1		1		1			1
Sam's Club Fueling Station	9326		1		1	1		1			
Sheehy Infinity/Lexus	6747		1		1		1	1			1
Sheehy Infinity Backlot	6747	1		1		1			1		1
Sheehy Infinity	6747	1			1	1			1		1
Annapolis Land Rover/Jaguar	7272	1		1		1			1		1
Broadneck Park/ Expansion	6780	1			1	1		1			1
Smartlink	C	1		1		1		1			1
Severn Commons	7571A		1	1		1		1			1
Severn Commons	7572	1			1	1			1		1
Severn Commons	7571	1			1	1		1			1
Annapolis Exchange, Parcel 465	8139	1			1	1		1			1
Annapolis Exchange, Parcel 465	8140	1			1	1		1			1
Village Green of Annapolis	10582A		1		1	1		1			1
Village Green of Annapolis	10582B	1		1			1	1			1
Monticello	7598	1		1		1		1			1
TD Bank	D	1		1		1		1			1
Odenton Business Park, Lot 3	8151		1	1		1		1			1
Odenton Business Park, Lot 1	11042		1	1		1			1		1
Anne Arundel Medical Park	9213North	1		1		1		1			1
Anne Arundel Medical Park	9213South	1		1		1		1			1
Crownsville Town Center	7403		1		1		1	1			1
C&C Motorcycles	6882		1	1		1		1			1
Severn Baptist Church	7648		1	1		1			1		1
Catholic Charities Odenton II	10250	1			1	1		1			1
Catholic Charities Odenton II	10251	1		1		1		1			1
Catholic Charities Odenton II	10252	1		1		1		1			1
		20	10	18	11	26	3	22	7	19	9

Severn River Rain Garden Survey - 5 May 2010

Structure Name	Structure ID	Free of Other Factors Impeding Storage		At Least Two Inches of Mulch Present		Surface Feels Springy/Spongy Underfoot		Monitoring Wells Present		All Wells Capped	
		Yes	No	Yes	No	Yes	No	Yes	No	Yes	No
Severn Inn	6053		1		1				1		
Severn Inn	6054	1			1		1		1		
Housely Professional Building	6613		1	1		1			1		
Sam's Club Fueling Station	9326		1		1				1		
Sheehy Infinity/Lexus	6747		1		1	1		1		1	
Sheehy Infinity Backlot	6747		1		1	1		1		1	
Sheehy Infinity	6747	1			1	1		1		1	
Annapolis Land Rover/Jaguar	7272		1		1	1		1		1	
Broadneck Park/ Expansion	6780	1			1		1		1		
Smartlink	C	1		1		1		1		1	
Severn Commons	7571A		1		1	1			1		
Severn Commons	7572		1	1		1		1		1	
Severn Commons	7571		1		1	1		1		1	
Annapolis Exchange, Parcel 465	8139		1		1		1	1		1	
Annapolis Exchange, Parcel 465	8140	1			1		1	1		1	
Village Green of Annapolis	10582A		1		1		1	1		1	
Village Green of Annapolis	10582B		1		1		1		1		
Monticello	7598	1		1		1		1		1	
TD Bank	D		1		1			1			1
Odenton Business Park, Lot 3	8151		1		1		1				
Odenton Business Park, Lot 1	11042		1		1		1		1		
Anne Arundel Medical Park	9213North		1	1		1		1		1	
Anne Arundel Medical Park	9213South		1	1		1		1		1	
Crownsville Town Center	7403		1		1	1		1		1	
C&C Motorcycles	6882		1	1			1	1		1	
Severn Baptist Church	7648		1		1		1		1		
Catholic Charities Odenton II	10250	1		1		1		1		1	
Catholic Charities Odenton II	10251	1		1		1		1		1	
Catholic Charities Odenton II	10252	1		1		1			1		
		9	20	10	19	16	10	18	10	17	1

Severn River Rain Garden Survey - 5 May 2010

		Could you remove caps?		Was water absent in well?		Wetland vegetation absent?		Overall Facility Condition		
Structure Name	Structure ID	Yes	No	Yes	No	Yes	No	Good	Fair	Poor
Severn Inn	6053						1			1
Severn Inn	6054									1
Housely Professional Building	6613					1				2
Sam's Club Fueling Station	9326						1			1
Sheehy Infinity/Lexus	6747	1		1		1				1
Sheehy Infinity Backlot	6747	1		1		1				1
Sheehy Infinity	6747	1				1				1
Annapolis Land Rover/Jaguar	7272		1			1				1
Broadneck Park/ Expansion	6780					1			1	
Smartlink	C	1				1		1		
Severn Commons	7571A					1		1		
Severn Commons	7572						1		1	
Severn Commons	7571					1		1		
Annapolis Exchange, Parcel 465	8139		1			1			1	
Annapolis Exchange, Parcel 465	8140	1			1	1			1	
Village Green of Annapolis	10582A		1			1				1
Village Green of Annapolis	10582B					1				1
Monticello	7598		1			1		1		
TD Bank	D	1			1	1			1	
Odenton Business Park, Lot 3	8151					1		1		
Odenton Business Park, Lot 1	11042					1				1
Anne Arundel Medical Park	9213North		1			1		1		
Anne Arundel Medical Park	9213South		1			1		1		
Crownsville Town Center	7403		1				1			1
C&C Motorcycles	6882		1				1		1	
Severn Baptist Church	7648					1			1	
Catholic Charities Odenton II	10250		1			1	1	1		
Catholic Charities Odenton II	10251		1			1		1		
Catholic Charities Odenton II	10252					1		1		
		6	10	2	2	23	6	10	7	13