

Back Creek Sub-Watershed

Table B-1: Back Creek Sub-Watershed Field Investigation Summary

Project ID	Location	Existing Site Conditions	Potential Improvement Project Type	Project Description	Owner	Approximate Drainage Area (Acres)	Approximate Impervious Area (Acres)	Community Input
Out_01	North of Edgewood Road (Osprey Nature Center).	This site is at the outfall on the Osprey Nature Center property, adjacent to the Bert Jabin Yacht Yard. A 36-inch elliptical pipe that conveys runoff from the Annapolis Water Reclamation Facility, and a 24-28-inch elliptical pipe outfall are at this location. Only the larger pipe was identified in the City GIS data. A concrete block and riprap strip are downstream of the larger outfall pipe, and a footbridge is downstream of both outfalls. Approximately 10 trees are in proximity to the stream, and wetland areas may be upstream of the confluence with Back Creek. There is approximately a 4-foot of drop between the outfall and the confluence with Back Creek.	Step Pool Conveyance System	Potential improvements include implementing a step pool conveyance system at this outfall. The existing bridge would need to be temporarily removed during construction, and up to 10 trees could be impacted.	City	33.4	12.2	
Out_07	Windwhisper Lane and Georgetown Road	The site is northeast of the intersection of Windwhisper Lane and Georgetown Road at the outfall of a 48-inch RCP pipe. Runoff from nearby residential structures and roadways drain from the outfall to a tributary of Back Creek. A scour pool has developed downstream of the outfall. Gabion baskets are placed along the edges of the stream, with gabion baskets in the stream functioning like a weir. Several trees are in the area, although the stream is wide near the outfall. According to the National Hydrography Dataset (NHD) this stream is not Perennial. The outfall is approximately 500 feet upstream of the existing FEMA 100 year floodplain.	Step Pool Conveyance System	Potential improvements include implementing a step pool conveyance system at this outfall. Approximately 20 to 30 trees could be impacted and sediment and debris would need to be removed from the channel bottom. Permitting for stream and/or wetland impacts would be required.	Private	50.0	26.7	Citizen +
Out_04	Northwest of Windwhisper Lane	The site is at the northern end of Windwhisper Lane. Due to the existing fencing, steep slopes, and thick vegetation the outfall was inaccessible.	None - Inaccessible	The site was inaccessible; no potential improvements are provided at this site.	Private	Not Applicable	Not Applicable	Citizen +
BMP_17	914 Bay Ridge Road (Georgetown Plaza)	This site is an existing infiltration area (riprap area) at the northwest corner of the Georgetown Plaza. Runoff enters the facility from an inlet that captures runoff from a catch basin at the corner of the parking lot. The parking lot is sloped toward the catch basin, and a concrete channel conveys runoff from the east side of an existing mulch island to the west. No utilities were observed in the infiltration area, although one tree was observed southeast of the facility. The infiltration area is surrounded by fence on the east and west sides and a trash enclosure on south. The site is not easily visible from the parking area.	Infiltration Basin Retrofit	Retrofit alternatives at this site include upgrading the existing infiltration area to either an infiltration trench or infiltration basin. A stilling basin would need to be constructed near the inlet, possibly using existing riprap. The majority of the riprap will need to be removed from the infiltration area, although it could be used to stabilize the slope. Several parking spaces could be used as construction staging areas. The tree adjacent to the existing practice would most likely need to be removed.	Private	0.9	0.6	Citizen +

Severn River Sub-Watershed

Table B-2: Severn River Sub-Watersheds Field Investigation Summary

Project ID	Location	Existing Site Conditions	Potential Improvement Project Type	Project Description	Owner	Approximate Drainage Area (Acres)	Approximate Impervious Area (Acres)	Community Input
BMP_09	7101 Bay Front Drive (BayWoods of Annapolis)	This site is at an existing wet pond north of the BayWoods of Annapolis Commons and Service building. The wet pond collects runoff from the BayWoods buildings and parking areas from a 21-inch Acrylonitrile Butadiene Styrene (ABS) pipe that enters the pond from the South. Runoff leaves the pond via a low flow pipe to the north and during high flows from an overflow weir with gabions downstream. The pond is surrounded by ornamental plants and is well maintained. There is a foot bridge crossing the pond, a fountain toward the north, and an aerator to the south. This pond is highly visible to the BayWoods community	Wet Pond Retrofit	Retrofit alternatives at this site include upgrading the existing pond to meet current MDE standards. A berm or wall would be required to create a sediment forebay. The structure may need to be modified slightly to treat the water quality volume. The aesthetics of this pond would have to be maintained, possibly by placing the forebay divider under the existing bridge. The bridge would most likely need to be temporarily moved during construction, and the existing aerator may need to be moved.	Community (Private Cooperative)	12.4	2.5	
BMP_20	Northwest of Moreland Parkway	The site is an existing wet pond adjacent to a parking lot northwest of Moreland Parkway. The facility collects runoff from the office/industrial complex and has a 60-inch pipe inflow. Water outfalls through large gabion weir without a riser.	Wet Pond Retrofit	Retrofit alternatives at this site include upgrading the existing wet pond to meet current MDE standards. The footprint of the pond would need to be increased substantially, and a berm would be required to create a sediment forebay at the inflow pipe. A riser structure would be required to provide treatment for the water quality volume. Up to 50 trees may be impacted by construction. Wetland permitting would most likely be required at this site, although the site also has potential for constructed wetlands.	Unknown Ownership	54.0	38.0	Citizen +
CtyRqst_01	Ridgewood Street and Brewer Avenue	The site is on Ridgewood and Brewer Avenue. The site is the Schubert property and a potential donation. There is an outfall with a scour hole and channel with minor erosion along the banks for approximately 100 feet downstream of the outfall.	Step Pool Conveyance System	Potential improvements include creating a step pool conveyance system in the channel, or stream restoration. Both practices would improve the water quality of College Creek.	Schubert Family, Possible Donation	48.0	21.0	ACB + SRA + Citizen +

South River Sub-Watershed

Table B-3: South River Sub-Watersheds Field Investigation Summary

Project ID	Location	Existing Site Conditions	Potential Improvement Project Type	Project Description	Owner	Approximate Drainage Area (Acres)	Approximate Impervious Area (Acres)	Community Input
BMP_07	Southeast of Coybay Drive and Annapolitan Lane (Annapolis Walk)	The site is at an existing wet pond southeast of Coybay Drive and Annapolitan Lane. The pond receives runoff from the adjacent neighborhood. The water surface is covered with algae, and the riser structure appears to be in good condition.	Wet Pond Retrofit	Retrofit alternatives at this site include upgrading the existing wet pond to meet current Maryland Department of the Environment (MDE) standards. A berm would be required to create a sediment basin at the inlet pipe. Minimal changes would be required to the low flow or high flow structures.	HOA	19.7	6.6	
BMP_08	5 Cherry Grove Avenue (The Village Greens)	The site is at an existing wet pond along Cherry Grove Avenue, across from the Village Greens shopping center. The pond was upgraded in 2001 from a dry pond. A new townhome development is under construction on the other side of the pond, including stormwater management ponds. The drainage area to this facility may be reduced due to new construction; however, the drainage area is still expected to include over 2 impervious acres. The facility is surrounded by trees and is covered with vegetation.	Wet Pond Retrofit	Retrofit alternatives at this site include upgrading the existing wet pond to meet current MDE standards. A berm would be required to create a sediment basin at the inlet pipe. The structure may need to be modified to treat the water quality volume.	Private	10.4	7.0	
BMP_14	Harness Creek View Court	The site is an existing wet pond at Harness Creek View Court. The pond receives runoff from the nearby residential area along Harness View Creek Court up to Potters Lane. The outfall is a large riprap lined ditch that extends approximately 200 feet downstream. A large vegetated mound is in the center of the pond. A fence circles the pond and several trees are on the embankment. The City indicated that there are flooding concerns at this location.	Wet Pond Retrofit	Retrofit alternatives at this site include upgrading the existing wet pond to meet current MDE standards. A berm would be required to create a sediment forebay toward the eastern end of the pond. Minimal changes would be required to the low flow or high flow structures. Up to 20 trees may be impacted by construction, including several growing on the pond embankment. The volume of the pond could be increased to reduce flooding, and catch basins or swales could be implemented in areas where localized flooding is occurring.	HOA	25.3	16.5	ACB +
BMP_15	Southwest of Child's Point Road and Woods Road	The site is an existing wet pond in a residential area southwest of Childs Point Road and Woods Road. According to City GIS, the pond is owned by the City; however, this site may be HOA owned. The pond has some algae on the water surface. The riser structure appears to be in good condition. The inflow is mostly submerged.	Wet Pond Retrofit	Retrofit alternatives at this site include upgrading the existing wet pond to meet current MDE standards. A berm would be required to create a sediment basin at the inlet pipe. The structure may need to be modified to manage the water quality volume and to prevent the inflow pipe from being submerged during normal conditions.	City	49.0	23.3	
City_01	Forest Drive (Municipal Housing Authority)	The site is on Tyler Avenue adjacent to a housing development on Forest Drive. Currently, the site is an open area with a storm drain pipe crossing an open field and flowing to a ditch behind the development beyond the utility easement.	Sand Filter	Potential improvements include a wet pond in the empty space between the stream and the basketball courts. The outfall from pond would be at existing storm drain outfall, and the downstream channel would need to be repaired. This channel is behind three layers of fencing. The soils in the area appear to be hydrologic group D and the drainage area appears to be over 10 acres so infiltration and filtration practices were not considered.	City	17.8	6.9	Citizen +
City_06	Hunt Meadows Drive (Municipal Other)	The site is at an outfall of a 42-inch pipe to Aberdeen Creek behind a pool parking lot on Hunt Meadows Drive. Erosion along the banks and sedimentation downstream were observed. A trail and several footbridges are along the channel, and trees and brush are along the banks of the stream channel.	Wet Pond	Potential improvements include installing a wet pond at the outfall. This could be done without impacting the trail but would cause impacts to trees. A step pool conveyance is another potential retrofit at this location. Stream and/or wetland permits would likely be required for any projects in this area, and up to 50 trees would be impacted.	City	27.0	9.7	Citizen + SRF +

Spa Creek Sub-Watershed

Table B-4: Spa Creek Sub-Watershed Field Investigation Summary

Project ID	Location	Existing Site Conditions	Potential Improvement Project Type	Project Description	Owner	Approximate Drainage Area (Acres)	Approximate Impervious Area (Acres)	Community Input
BMP_05	Northeast of Juliana Circle East and Newtowne Drive (Riders Glen)	This site is at an existing dry pond at the intersection Juliana Circle East and Newtowne Drive, in a parking lot for adjacent townhomes. No storm drain is shown on the City's GIS data, but storm drain pipe was found in the field and site plans. The entire pond is covered in light vegetation, although there are no trees.	Dry Pond Retrofit to Sand Filter	Retrofit alternatives at this site include upgrading the existing pond into a sand filter or wet pond. A berm would be required to create a sediment basin at the inlet pipe. The entire pond area would need to be cleared of vegetation, and a riser structure would need to be installed to treat the water quality volume.	Home Owners Association (HOA)	7.5	4.8	SCC +

Suggested Projects

Suggested Watershed Projects

Location	Existing Site Conditions	Potential Improvement Project Type	Project Description	Owner	Approximate Drainage Area (Acres)	Comments
Bloomsbury Square	Swale	Swale	Improve the swale to make it an educational site		TBD	Suggested by SRA
Ambridge	Retention Pond	Retention Pond	Upgrade the retention pond to meet current standards.	Ambridge HOA	TBD	Suggested by City of Annapolis