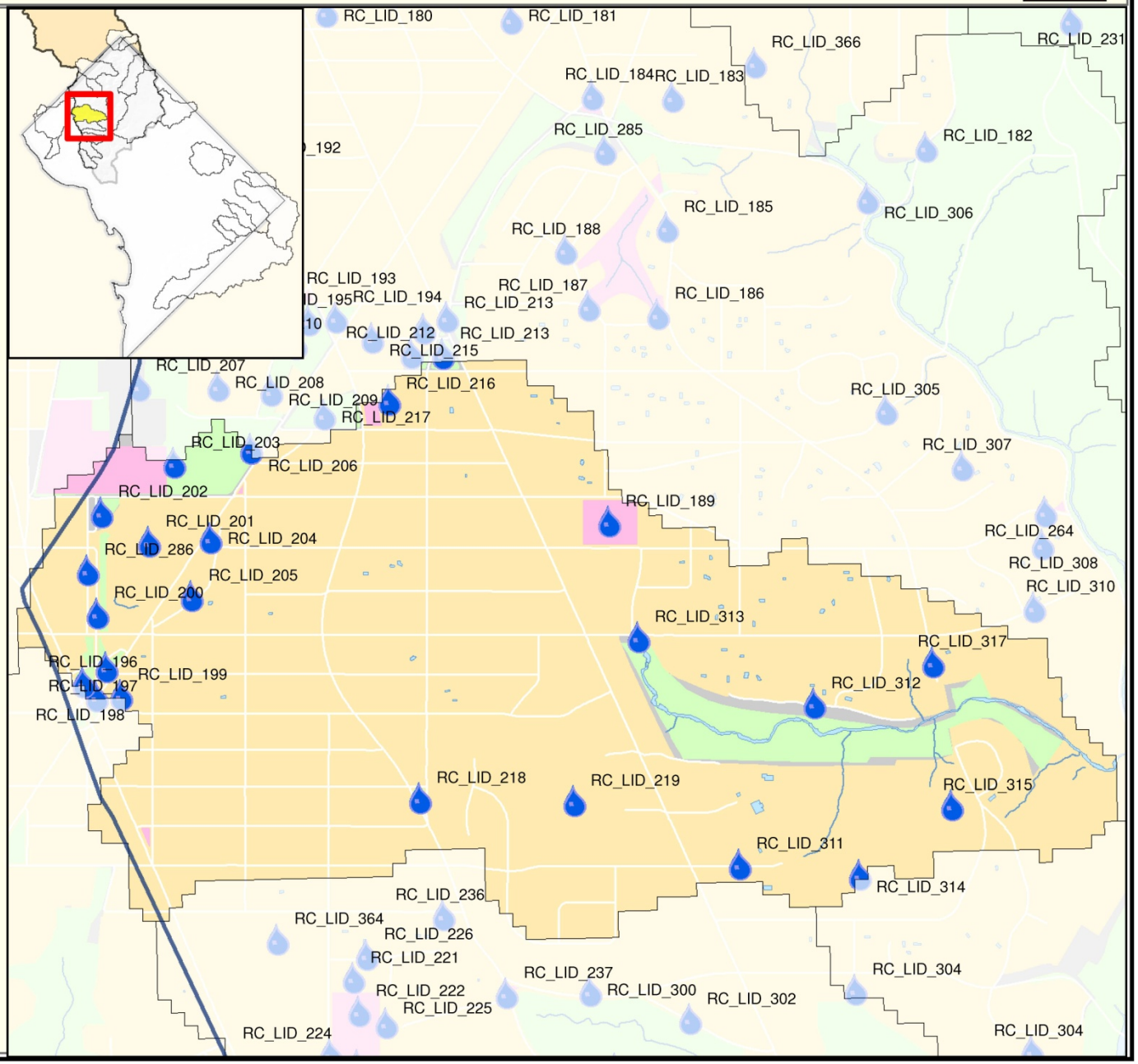
ROCK CREEK - SOAPSTONE CREEK MANAGEMENT MAP



Legend

- Stormwater LID Retrofit Sites
- Waterbodies
- DC Parks & Recreation
- National Park Service

Miles
0 0.04 0.08

Scale: 1:12,500

0 0.025 0.05 0.1 Miles

Source:
District Department of
the Environment

Prepared by: DDOE WPD

Date: July 31, 2010

Coordinate System:
NAD 1983 StatePlane Maryland FIPS 1900

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PROJECT_NUMBER	RC_LID_189
SITE_LOCATION	Forest Hill Playground Park - 3200 Chesapeake Street NW and Brandywine Street NW
ADC_MAP_LOCATION	5407_K8
DRAINAGE_AREA_SIZE_(ACRES)	3.611065
APPROXIMATE_IMPERVIOUSNESS	0.00%
OWNERSHIP	District
DESCRIPTION_OF_EXISTING_CONDTIONS	Park with tennis courts, playground and ball fields. Predominantly open space with some trees.
PROJECT_DESCRIPTION	Potential LID on Brandywine to capture runoff from tennis court and Brandywine Street. Bioretention for sidewalk leading from Chesapeake Street NW or replacement with permeable pavers. Invasive removal. Tree planting.
ESTIMATED_COST	$180,553.00
PROJECT_RANKING_EDUCATION	High
PROJECT_RANKING_ENVIRONMENT	High
PROJECT_RANKING_INSTALLATION	High

PROJECT_NUMBER	RC_LID_196
SITE_LOCATION	Triangle Park - Wisconsin Avenue NW, Fort Drive NW, and Tenley Circle NW
ADC_MAP_LOCATION	5407_H9
DRAINAGE_AREA_SIZE_(ACRES)	0.6428515
APPROXIMATE_IMPERVIOUSNESS	0.00%
OWNERSHIP	District/NPS
DESCRIPTION_OF_EXISTING_CONDTIONS	Triangle park maintained as grass with many young trees. Roadways with curb and gutter around park.
PROJECT_DESCRIPTION	Install bioretention to capture runoff from Wisconsin Avenue and Grant Road, NW
ESTIMATED_COST	$22,500.00
PROJECT_RANKING_EDUCATION	Medium
PROJECT_RANKING_ENVIRONMENT	High
PROJECT_RANKING_INSTALLATION	Low

PROJECT_NUMBER	RC_LID_197
SITE_LOCATION	Triangle Park - Fort Drive NW, Nebraska Avenue NW and Grant Road NW
ADC_MAP_LOCATION	5407_H9
DRAINAGE_AREA_SIZE_(ACRES)	0.4994714
APPROXIMATE_IMPERVIOUSNESS	0.00%
OWNERSHIP	District/NPS
DESCRIPTION_OF_EXISTING_CONDTIONS	Triangle park maintained as grass with many young trees. Roadways with curb and gutter around park.
PROJECT_DESCRIPTION	Install bioretention to capture runoff from Fort Drive
ESTIMATED_COST	$17,481.00
PROJECT_RANKING_EDUCATION	Medium
PROJECT_RANKING_ENVIRONMENT	High
PROJECT_RANKING_INSTALLATION	Low

PROJECT_NUMBER	RC_LID_198
SITE_LOCATION	Traffic Triangle at Tenley Circle - Nebraska Avenue NW and Fort Drive NW
ADC_MAP_LOCATION	5407_H9
DRAINAGE_AREA_SIZE_(ACRES)	6.111752E-02
APPROXIMATE_IMPERVIOUSNESS	0.00%
OWNERSHIP	District/NPS
DESCRIPTION_OF_EXISTING_CONDTIONS	Small grass island with curb and gutter. Island is surrounded by a painted island at roadway level.
PROJECT_DESCRIPTION	Remove impervious painted island and install bioretention to capture roadway runoff.
ESTIMATED_COST	$5,195.00
PROJECT_RANKING_EDUCATION	Low
PROJECT_RANKING_ENVIRONMENT	Medium
PROJECT_RANKING_INSTALLATION	High

PROJECT_NUMBER	RC_LID_199
SITE_LOCATION	Wisconsin Avenue Baptist Church - 3920 Alton Pl NW
ADC_MAP_LOCATION	5407_H9
DRAINAGE_AREA_SIZE_(ACRES)	1.632723
APPROXIMATE_IMPERVIOUSNESS	0.00%
OWNERSHIP	Church
DESCRIPTION_OF_EXISTING_CONDTIONS	Church land maintained as grass adjacent to Nebraska Avenue NW, Yuma Street NW, and Tenley Circle. Curb and gutter.
PROJECT_DESCRIPTION	Install bioretention to take stormwater from Yuma Street NW, Parking lot and rooftop. Reforestation.
ESTIMATED_COST	$57,145.00
PROJECT_RANKING_EDUCATION	High
PROJECT_RANKING_ENVIRONMENT	High
PROJECT_RANKING_INSTALLATION	Medium

PROJECT_NUMBER	RC_LID_200
SITE_LOCATION	Wilson Aquatic Center - 4551 Fort Drive, NW
ADC_MAP_LOCATION	5407_H9
DRAINAGE_AREA_SIZE_(ACRES)	0.3627691
APPROXIMATE_IMPERVIOUSNESS	0.00%
OWNERSHIP	District
DESCRIPTION_OF_EXISTING_CONDTIONS	Curb and gutter along Fort Drive. Grass area adjacent. Small dry stream behind Aquatic Center.
PROJECT_DESCRIPTION	Bioswale along Fort Drive NW. Regenerative stormwater conveyance for dry stream. Invasive removal.
ESTIMATED_COST	$12,697.00
PROJECT_RANKING_EDUCATION	Medium
PROJECT_RANKING_ENVIRONMENT	High
PROJECT_RANKING_INSTALLATION	High

PROJECT_NUMBER	RC_LID_201
SITE_LOCATION	Woodrow Wilson High School - 3950 Chesapeake St NW
ADC_MAP_LOCATION	5407_H9
DRAINAGE_AREA_SIZE_(ACRES)	10.54152
APPROXIMATE_IMPERVIOUSNESS	0.00%
OWNERSHIP	District
DESCRIPTION_OF_EXISTING_CONDTIONS	Sloped roof building with external downspouts. Some Flat roof buildings with internal downspouts. Large grass areas and impervious parking and walkway areas.
PROJECT_DESCRIPTION	Bioretention to capture runoff from Fort Drive NW, 40th Street NW, and Chesapeake Street NW. Pervious paver installs for parking areas. Cistern and rain garden installation for downspouts. Green roof for flat roofs.
ESTIMATED_COST	$896,029.00
PROJECT_RANKING_EDUCATION	High
PROJECT_RANKING_ENVIRONMENT	High
PROJECT_RANKING_INSTALLATION	High

PROJECT_NUMBER	RC_LID_202
SITE_LOCATION	Triangle park at Wilson High School - 3950 Chesapeake St NW
at Fort Drive NW and Chesapeake St NW	
ADC_MAP_LOCATION	5407_H9
DRAINAGE_AREA_SIZE_(ACRES)	1.011824
APPROXIMATE_IMPERVIOUSNESS	0.00%
OWNERSHIP	District
DESCRIPTION_OF_EXISTING_CONDTIONS	Triangle park currently maintained as grass curb and gutter
around triangle.	
PROJECT_DESCRIPTION	Install bioretention in triangle to take runoff from Fort Drive NW
and Chesapeake Street NW	
ESTIMATED_COST	$35,414.00
PROJECT_RANKING_EDUCATION	High
PROJECT_RANKING_ENVIRONMENT	High
PROJECT_RANKING_INSTALLATION	High

PROJECT_NUMBER	RC_LID_203
SITE_LOCATION	Fort Reno Park - Chesapeake Street NW, Nebraska Avenue NW, and Fort Drive NW
ADC_MAP_LOCATION	5407_H8
DRAINAGE_AREA_SIZE_(ACRES)	10.47737
APPROXIMATE_IMPERVIOUSNESS	0.00%
OWNERSHIP	District/NPS
DESCRIPTION_OF_EXISTING_CONDTIONS	Large park area maintained as grass, trees and ball fields. Park generally slopes towards streets.
PROJECT_DESCRIPTION	Install bioretention to capture runoff from Chesapeake Street and from the park itself. Install bank stabilization for steep slope on north side of Chesapeake Street NW and south side of Fort Drive NW
ESTIMATED_COST	$366,708.00
PROJECT_RANKING_EDUCATION	High
PROJECT_RANKING_ENVIRONMENT	Medium
PROJECT_RANKING_INSTALLATION	High

PROJECT_NUMBER	RC_LID_204
SITE_LOCATION	Triangle park - Brandywine Street NW and Grant Road NW
ADC_MAP_LOCATION	5407_H9
DRAINAGE_AREA_SIZE_(ACRES)	0.3484893
APPROXIMATE_IMPERVIOUSNESS	0.00%
OWNERSHIP	Private
DESCRIPTION_OF_EXISTING_CONDTIONS	Triangle maintained as grass and trees with curb and gutter roadway surrounding it.
PROJECT_DESCRIPTION	Install bioretention to capture runoff from Brandywine Street NW and Nebraska Avenue NW
ESTIMATED_COST	$12,197.00
PROJECT_RANKING_EDUCATION	Medium
PROJECT_RANKING_ENVIRONMENT	High
PROJECT_RANKING_INSTALLATION	High

PROJECT_NUMBER	RC_LID_205
SITE_LOCATION	Grant Road NW between Albemarle Street NW and Brandywine Street NW - 4525 Grant Road NW
ADC_MAP_LOCATION	5407_H9
DRAINAGE_AREA_SIZE_(ACRES)	1.43791
APPROXIMATE_IMPERVIOUSNESS	0.00%
OWNERSHIP	District
DESCRIPTION_OF_EXISTING_CONDTIONS	Grant Road has cement ditch to convey stormwater to catch basin.
PROJECT_DESCRIPTION	Remove cement ditch and install bioswale to capture stormwater from Grant Road, NW
ESTIMATED_COST	$50,327.00
PROJECT_RANKING_EDUCATION	medium
PROJECT_RANKING_ENVIRONMENT	high
PROJECT_RANKING_INSTALLATION	high

PROJECT_NUMBER	RC_LID_206
SITE_LOCATION	Triangle park - Nebraska Avenue NW, Fort Drive NW, and Howard Street NW
ADC_MAP_LOCATION	5407_J8
DRAINAGE_AREA_SIZE_(ACRES)	1.916582
APPROXIMATE_IMPERVIOUSNESS	0.00%
OWNERSHIP	District
DESCRIPTION_OF_EXISTING_CONDTIONS	Howard Street NW is an asphalt street that is closed between Nebraska Avenue NW and Fort Drive with parkland on either side.
PROJECT_DESCRIPTION	Remove Howard Street NW. Install bioretention to treat stormwater from Nebraska Avenue NW and Fort Drive NW
ESTIMATED_COST	$95,829.00
PROJECT_RANKING_EDUCATION	high
PROJECT_RANKING_ENVIRONMENT	High
PROJECT_RANKING_INSTALLATION	High

PROJECT_NUMBER	RC_LID_216
SITE_LOCATION	Murch Elementary School - 4810 36th St NW
ADC_MAP_LOCATION	5407_J8
DRAINAGE_AREA_SIZE_(ACRES)	4.957561
APPROXIMATE_IMPERVIOUSNESS	0.00%
OWNERSHIP	District
DESCRIPTION_OF_EXISTING_CONDTIONS	Sloped roof external downspout building. Large impervious parking lot/play area. Newly installed turf field and grass park area.
PROJECT_DESCRIPTION	Remove ditch along turf field and install bioswale, remove some imperviousness at parking lot and install bioretention and/or pervious paving. Cisterns and bioretention planters for roof top stormwater.
ESTIMATED_COST	$421,393.00
PROJECT_RANKING_EDUCATION	High
PROJECT_RANKING_ENVIRONMENT	High
PROJECT_RANKING_INSTALLATION	High

PROJECT_NUMBER	RC_LID_217
SITE_LOCATION	NPS Parkland - Davenport Street NW and Nebraska Avenue NW, and Reno Road NW
ADC_MAP_LOCATION	5407_J8
DRAINAGE_AREA_SIZE_(ACRES)	2.871695
APPROXIMATE_IMPERVIOUSNESS	0.00%
OWNERSHIP	District/NPS
DESCRIPTION_OF_EXISTING_CONDTIONS	Park area maintained as grass and some trees. Roadways with curb and gutter surrounding parkland.
PROJECT_DESCRIPTION	Bioretention to capture runoff from Davenport Street NW and Nebraska Avenue NW. Invasive removal activity. Reforestation.
ESTIMATED_COST	$100,509.00
PROJECT_RANKING_EDUCATION	High
PROJECT_RANKING_ENVIRONMENT	High
PROJECT_RANKING_INSTALLATION	Low

PROJECT_NUMBER	RC_LID_218
SITE_LOCATION	Triangle Park - Reno Road NW, 36th Street NW and Warren Street NW

ADC_MAP_LOCATION	5407_J9
DRAINAGE_AREA_SIZE_(ACRES)	0.3604166
APPROXIMATE_IMPERVIOUSNESS	0.00%
OWNERSHIP	District/NPS
DESCRIPTION_OF_EXISTING_CONDTIONS	Triangle park maintained with grass and trees. Curb and gutter surrounding park.

PROJECT_DESCRIPTION	Install bioretention to take runoff from Warren Street, NW. Narrow or remove one way road on 36th Street and install bioretention to take stormwater from Reno Road NW

ESTIMATED_COST	$30,635.00
PROJECT_RANKING_EDUCATION	Low
PROJECT_RANKING_ENVIRONMENT	High
PROJECT_RANKING_INSTALLATION	High

PROJECT_NUMBER	RC_LID_219
SITE_LOCATION	UDC Van Ness Campus - 4200 Connecticut Ave
ADC_MAP_LOCATION	5407_K9
DRAINAGE_AREA_SIZE_(ACRES)	24.28147
APPROXIMATE_IMPERVIOUSNESS	0.00%
OWNERSHIP	District
DESCRIPTION_OF_EXISTING_CONDTIONS	Large campus with mix of flat roof buildings with internal downspouts, impervious parking and walkway areas, ball fields and tennis courts.
PROJECT_DESCRIPTION	Install green roofs on flat roof buildings. Reduce impervious patio areas and walkways and add trees and bioretention to treat runoff from these areas.
ESTIMATED_COST	$2,428,147.00
PROJECT_RANKING_EDUCATION	High
PROJECT_RANKING_ENVIRONMENT	High
PROJECT_RANKING_INSTALLATION	High

PROJECT_NUMBER	RC_LID_220
SITE_LOCATION	Triangle Park - Veazey Street NW, Wisconsin Avenue NW, 39th Street NW

ADC_MAP_LOCATION	5407_H10
DRAINAGE_AREA_SIZE_(ACRES)	0.46
APPROXIMATE_IMPERVIOUSNESS	0.00%
OWNERSHIP	District
DESCRIPTION_OF_EXISTING_CONDTIONS	Triangle park maintained as grass and shrubs. Roads with curb and gutter surrounding park. 39th Street NW closed to traffic by jersey barriers.

PROJECT_DESCRIPTION	Remove roadway at 39th Street. Install bioretention to capture runoff from Wisconsin Avenue NW

ESTIMATED_COST	$39,100.00
PROJECT_RANKING_EDUCATION	Medium
PROJECT_RANKING_ENVIRONMENT	High
PROJECT_RANKING_INSTALLATION	High

PROJECT_NUMBER	RC_LID_311
SITE_LOCATION	Regenerative Stormwater Conveyance - Veazey Terrace NW and Connecticut Avenue NW
ADC_MAP_LOCATION	5407_K9
DRAINAGE_AREA_SIZE_(ACRES)	11.05847
APPROXIMATE_IMPERVIOUSNESS	0.00%
DESCRIPTION_OF_EXISTING_CONDTIONS	Concrete drainage swale leading to an extremely eroded intermittent stream valley. Outfall joins in downstream and additional erosion issue.
PROJECT_DESCRIPTION	Regenerative stormwater conveyance for eroded stream valley. Remove concrete swale and replace with bioswale.
ESTIMATED_COST	$252,600.00
PROJECT_RANKING_EDUCATION	Medium
PROJECT_RANKING_ENVIRONMENT	High
PROJECT_RANKING_INSTALLATION	High

PROJECT_NUMBER	RC_LID_312
SITE_LOCATION	Audubon Terrace NW
ADC_MAP_LOCATION	5408_A9
DRAINAGE_AREA_SIZE_(ACRES)	4.319774
APPROXIMATE_IMPERVIOUSNESS	0.00%
DESCRIPTION_OF_EXISTING_CONDTIONS	Roadway running next to Soapstone Creek. Road has curb and gutter and dumps directly into stream. Causing severe erosion.
PROJECT_DESCRIPTION	Reduce size of roadway and install bioretention cells along roadway. Install regenerative stormwater conveyance at outfall into Soapstone Creek.
ESTIMATED_COST	$151,192.00
PROJECT_RANKING_EDUCATION	Medium
PROJECT_RANKING_ENVIRONMENT	High
PROJECT_RANKING_INSTALLATION	High

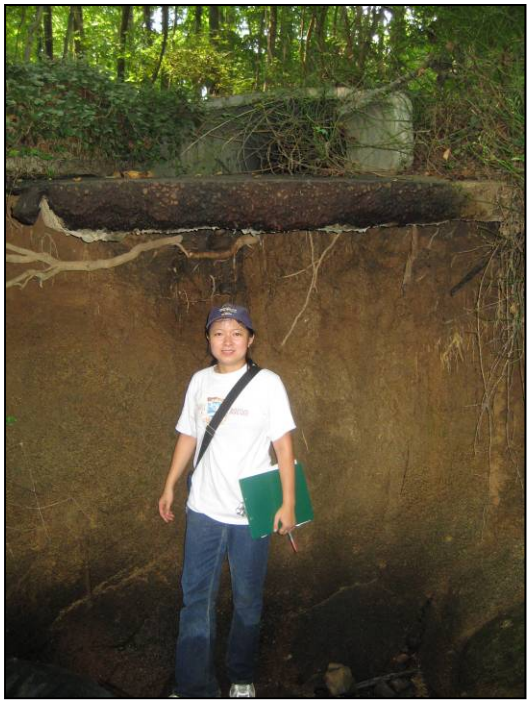
PROJECT_NUMBER	RC_LID_313
SITE_LOCATION	NPS Pathway - Connecticut Avenue NW and Albemarle Street NW
ADC_MAP_LOCATION	5408_A9
DRAINAGE_AREA_SIZE_(ACRES)	0.6341139
APPROXIMATE_IMPERVIOUSNESS	0.00%
DESCRIPTION_OF_EXISTING_CONDTIONS	Paved & gravel pathway leading to Soapstone Creek. Erosion off pathway into Soapstone Creek.
PROJECT_DESCRIPTION	Remove paved area on path. Replace with geogrid/permeable gravel system. Stabilize eroding slopes with native vegetation.
ESTIMATED_COST	$22,194.00
PROJECT_RANKING_EDUCATION	high
PROJECT_RANKING_ENVIRONMENT	medium
PROJECT_RANKING_INSTALLATION	high

PROJECT_NUMBER	RC_LID_314
SITE_LOCATION	Howard University Law School parking lot - 2900 Van Ness St NW
ADC_MAP_LOCATION	5408_A10
DRAINAGE_AREA_SIZE_(ACRES)	13.21024
APPROXIMATE_IMPERVIOUSNESS	0.00%
DESCRIPTION_OF_EXISTING_CONDTIONS	Large impervious lot with curb and gutter. Storm drains lead directly to highly eroded intermittent stream valley.
PROJECT_DESCRIPTION	Install bioretention cells around parking lot to treat stormwater. Install bioretention islands with trees and/or permeable pavement in parking spaces. Green roof.
ESTIMATED_COST	$462,358.00
PROJECT_RANKING_EDUCATION	High
PROJECT_RANKING_ENVIRONMENT	High
PROJECT_RANKING_INSTALLATION	Medium

PROJECT_NUMBER	RC_LID_315
SITE_LOCATION	Embassy Lands - Upton Street NW and Linnaean Avenue NW
ADC_MAP_LOCATION	5408_B9
DRAINAGE_AREA_SIZE_(ACRES)	4.237366
APPROXIMATE_IMPERVIOUSNESS	0.00%
DESCRIPTION_OF_EXISTING_CONDTIONS	Parking lot and roadway with curb and gutter. Storm drains lead to intermittent stream valley draining to Soapstone Creek.
PROJECT_DESCRIPTION	Install regenerative stormwater conveyance for outfall erosion going to Soapstone Creek.
ESTIMATED_COST	$100,000.00
PROJECT_RANKING_EDUCATION	Low
PROJECT_RANKING_ENVIRONMENT	Medium
PROJECT_RANKING_INSTALLATION	High

PROJECT_NUMBER	RC_LID_316
SITE_LOCATION	Bioretention - Broad Branch Road at Soapstone Creek
ADC_MAP_LOCATION	5408_B9
DRAINAGE_AREA_SIZE_(ACRES)	0.6428923
APPROXIMATE_IMPERVIOUSNESS	0.00%
DESCRIPTION_OF_EXISTING_CONDTIONS	Stormwater from Broad Branch Road NW dumps into Soapstone Creek at bridge over creek near intersection with Ridge Road NW
PROJECT_DESCRIPTION	Install bioretention to treat stormwater from Broad Branch Road NW and reduce erosion around Soapstone Creek Bridge.
ESTIMATED_COST	$22,501.00
PROJECT_RANKING_EDUCATION	Medium
PROJECT_RANKING_ENVIRONMENT	High
PROJECT_RANKING_INSTALLATION	High

PROJECT_NUMBER	RC_LID_317
SITE_LOCATION	Dead end - Linnaean Avenue NW and Albemarle Street NW
ADC_MAP_LOCATION	5408_A9
DRAINAGE_AREA_SIZE_(ACRES)	2.029123
APPROXIMATE_IMPERVIOUSNESS	0.00%
DESCRIPTION_OF_EXISTING_CONDTIONS	Outfall with severe erosion. Stormwater from end of Linnaean Avenue NW directed into Soapstone Creek stream valley.
PROJECT_DESCRIPTION	Install regenerative stormwater conveyance at outfall at end of Linnaean Avenue NW near Albemarle Street NW
ESTIMATED_COST	$48,600.00
PROJECT_RANKING_EDUCATION	Low
PROJECT_RANKING_ENVIRONMENT	High
PROJECT_RANKING_INSTALLATION	High



PROJECT_NUMBER	RC_LID_367
SITE_LOCATION	40th Street NW and Fort Drive, NW between Albemarle Street NW and Chesapeake Street NW

ADC_MAP_LOCATION	5407_H9
DRAINAGE_AREA_SIZE_(ACRES)	3.13
APPROXIMATE_IMPERVIOUSNESS	90.00%
OWNERSHIP	District
DESCRIPTION_OF_EXISTING_CONDTIONS	Fort Drive is a one-way loop used primarily for busses servicing the metro station. The road is overly wide. There is an island in the middle of the roadway with trees that are in poor condition.

PROJECT_DESCRIPTION	Green street – narrow roadway and install bioretention to take water from the roadway. Use island for bioretention and plant trees in the area.

ESTIMATED_COST	$12,697.00
PROJECT_RANKING_EDUCATION	High
PROJECT_RANKING_ENVIRONMENT	High
PROJECT_RANKING_INSTALLATION	High