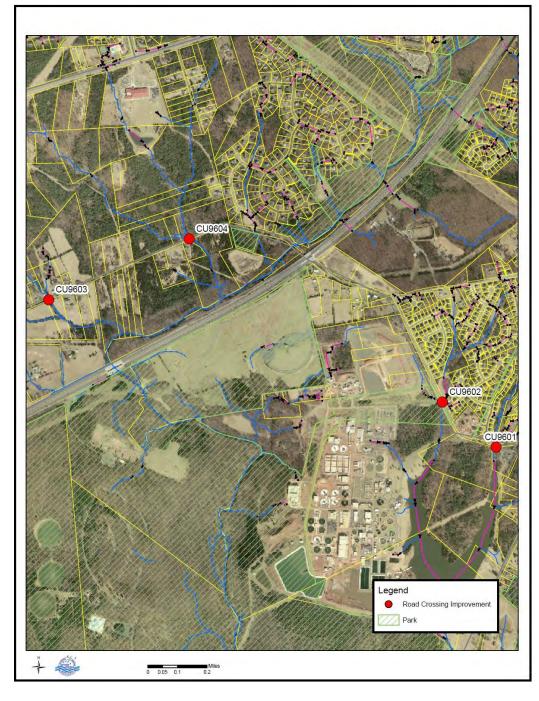
Fact Sheets

Projects CU9601 through CU9613

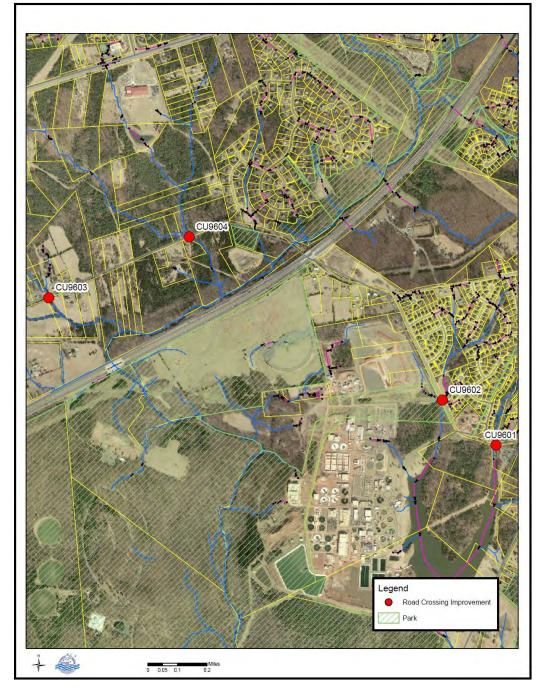
Cub Run Watershed Road Crossing Improvement Projects

Projects CU9601 through CU9613

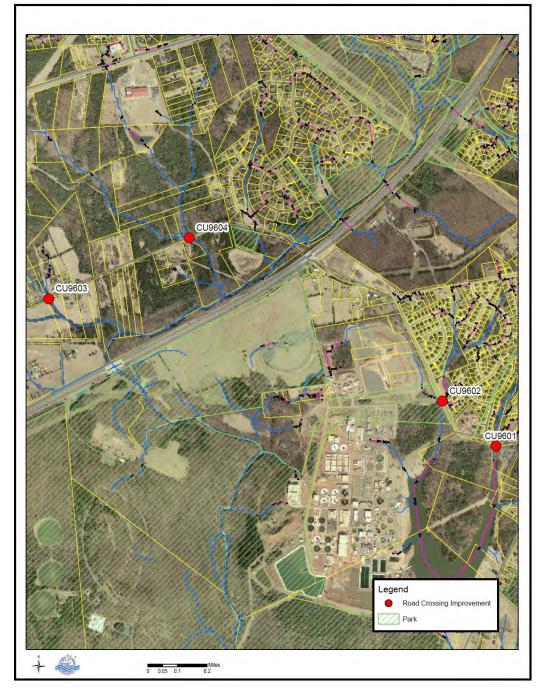
Project ID:	CU9601
Project Type:	Road Crossing Improvement
Location:	Compton Road at unnamed tributary near UOSA advanced wastewater treatment plant Bull Run East subwatershed
Description:	Raise road and replace existing culvert with a larger culvert to address roadway flooding and impact of road on the stream. Project will not be implemented using Fairfax County stormwater funds. The roads are maintained by the Virginia Department of Transportation and these improvements will be implemented during roadway improvement projects.



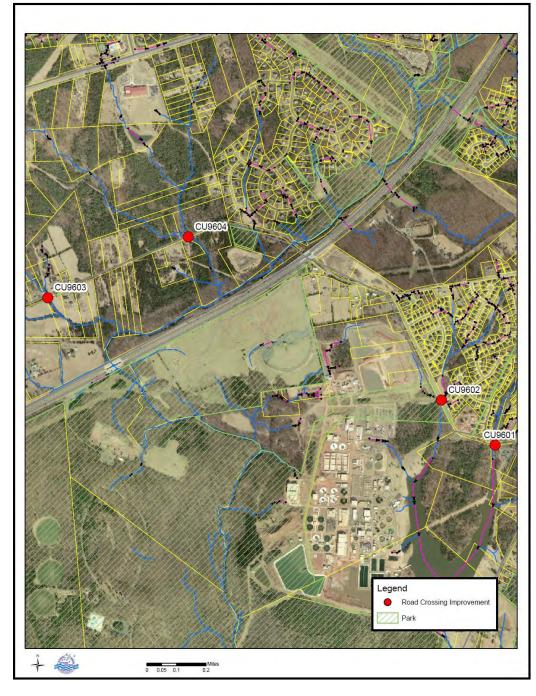
Project ID:	CU9602
Project Type:	Road Crossing Improvement
Location:	Compton Road at unnamed tributary near Confederate Ridge Lane within Bull Run East subwatershed
Description:	Raise road and replace existing culvert with a larger culvert to address roadway flooding and impact of road on the stream. Project will not be implemented using Fairfax County stormwater funds. The roads are maintained by the Virginia Department of Transportation and these improvements will be implemented during roadway improvement projects.



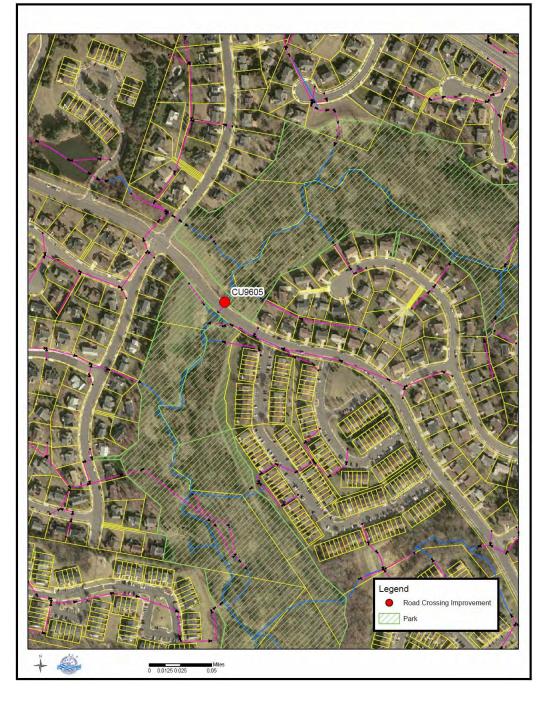
Project ID:	CU9603
Project Type:	Road Crossing Improvement
Location:	Compton Road at unnamed tributary west of Bull Run Post Office Road within Lower Cub Run subwatershed
Description:	Raise road and replace existing culvert with a larger culvert to address roadway flooding and impact of road on the stream. Project will not be implemented using Fairfax County stormwater funds. The roads are maintained by the Virginia Department of Transportation and these improvements will be implemented during roadway improvement projects.



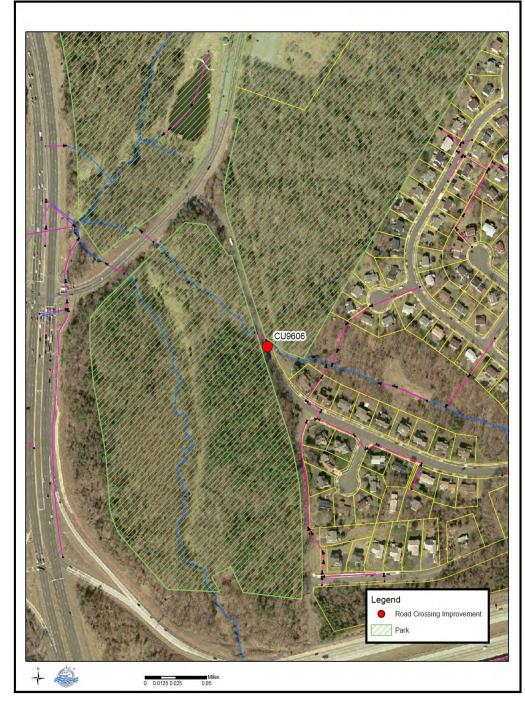
Project ID:	CU9604
Project Type:	Road Crossing Improvement
Location:	Compton Road at unnamed tributary west of Route 66 within Lower Cub Run subwatershed
Description:	Raise road and replace existing culvert with a larger culvert to address roadway flooding and impact of road on the stream. Project will not be implemented using Fairfax County stormwater funds. The roads are maintained by the Virginia Department of Transportation and these improvements will be implemented during roadway improvement projects.



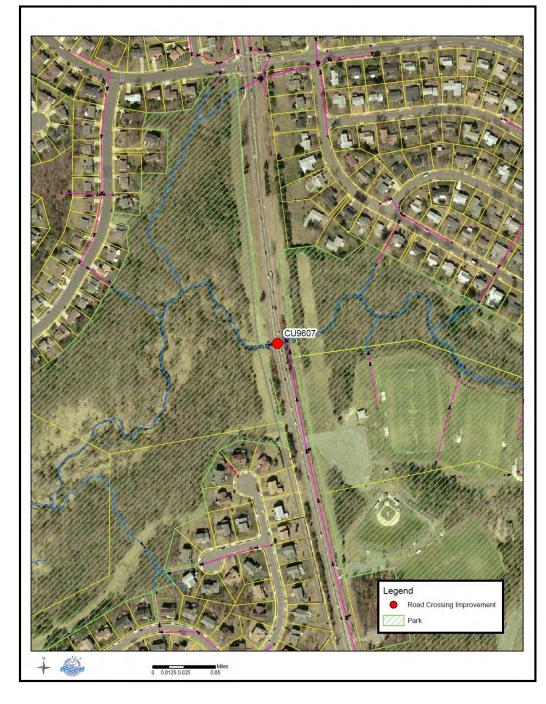
Project ID:	CU9605
Project Type:	Road Crossing Improvement
Location:	Awbrey Patent Drive at Big Rocky Run within Big Rocky Run subwatershed
Description:	Raise roadway elevation and add additional culvert(s) to address roadway flooding. Project will not be implemented using Fairfax County stormwater funds. The roads are maintained by the Virginia Department of Transportation and these improvements will be implemented during roadway improvement projects.



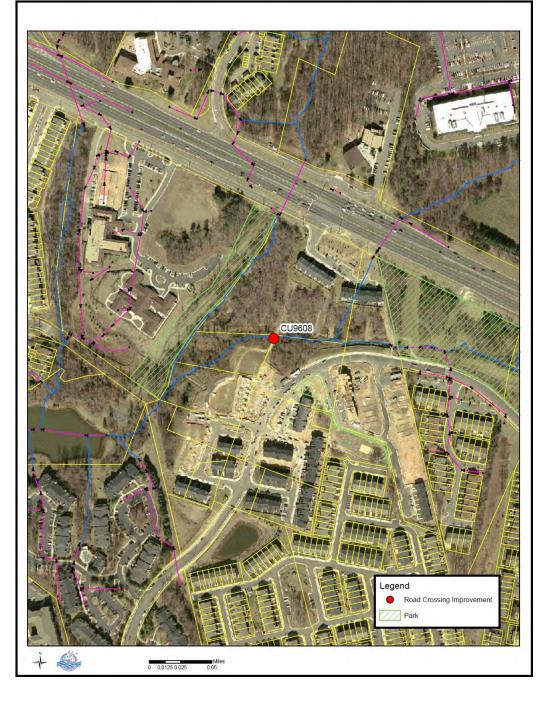
Project ID:	CU9606
Project Type:	Road Crossing Improvement
Location:	Heron Drive at unnamed tributary between Cabells Mill Drive and Walney Road within Big Rocky Run subwatershed
Description:	Replace existing culvert with a larger culvert or multiple culverts to address roadway flooding and impact of road on the stream. Project will not be implemented using Fairfax County stormwater funds. The roads are maintained by the Virginia Department of Transportation and these improvements will be implemented during roadway improvement projects.



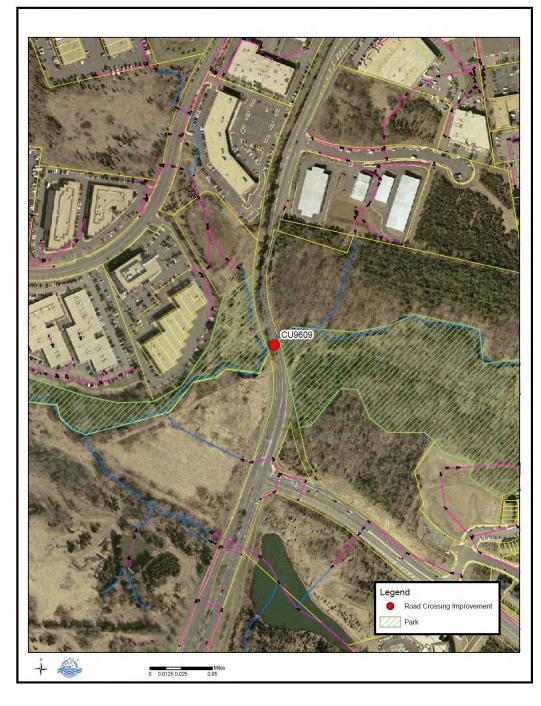
Project ID:	CU9607
Project Type:	Road Crossing Improvement
Location:	Big Rocky Run at Stringfellow Road within Big Rocky Run subwatershed
Description:	Replace existing culvert with larger culvert, multiple culverts or bridge to address flooding. Project will not be implemented using Fairfax County stormwater funds. The roads are maintained by the Virginia Department of Transportation and these improvements will be implemented during roadway improvement projects.



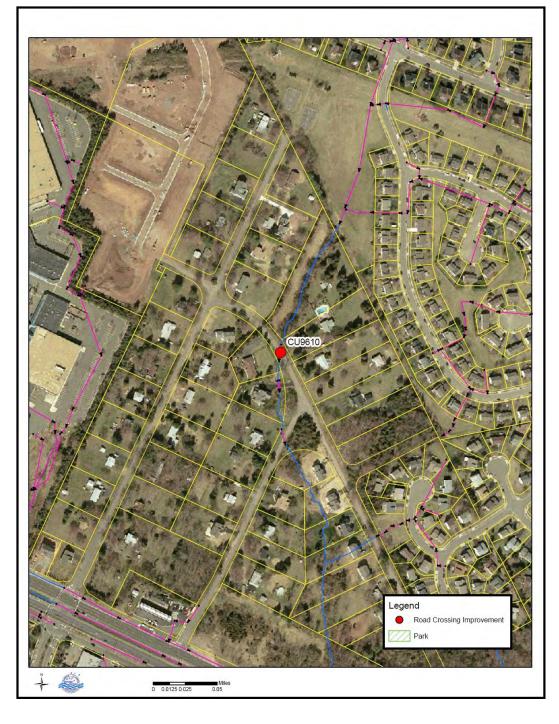
Project ID:	CU9608
Project Type:	Road Crossing Improvement
Location:	Dorforth Drive at unnamed tributary within Big Rocky Run subwatershed
Description:	This crossing is no longer an active right of way. The culvert and berm will be removed to eliminate impacts on the stream and restore natural flood plain.



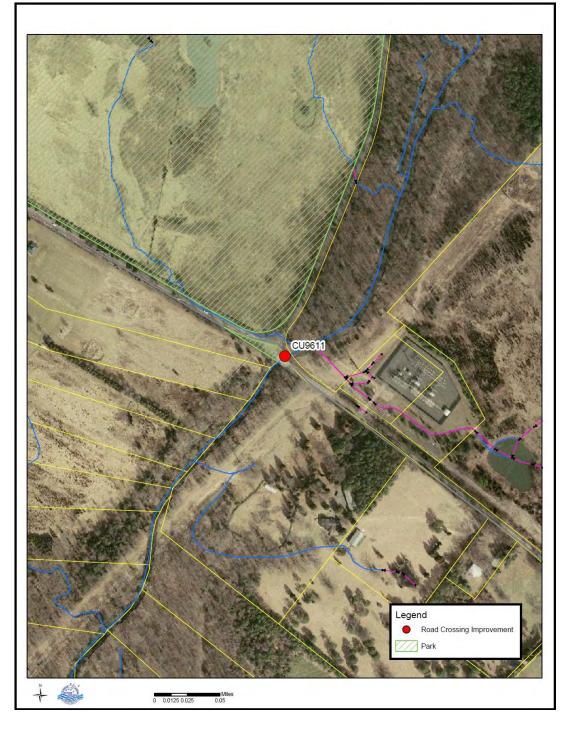
Project ID:	CU9609
Project Type:	Road Crossing Improvement
Location:	Flatlick Branch at Walney Road
Description:	Raise road and replace existing culvert with larger culvert, multiple culverts or a bridge to address roadway flooding and impacts of crossing on the stream. Project will not be implemented using Fairfax County stormwater funds. The roads are maintained by the Virginia Department of Transportation and these improvements will be implemented during roadway improvement projects.



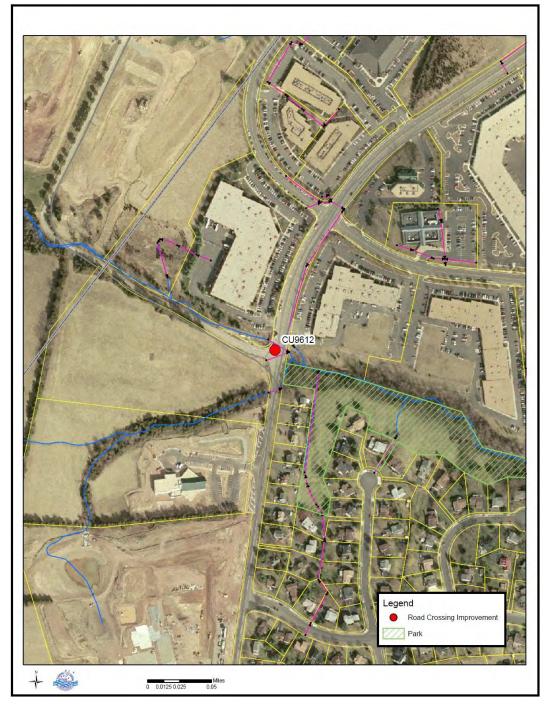
Project ID:	CU9610
Project Type:	Road Crossing Improvement
Location:	Birch Drive at unnamed tributary to Flatlick Branch
Description:	Replace existing culvert with larger culvert or multiple culverts to address roadway flooding. Project will not be implemented using Fairfax County stormwater funds. The roads are maintained by the Virginia Department of Transportation and these improvements will be implemented during roadway improvement projects.



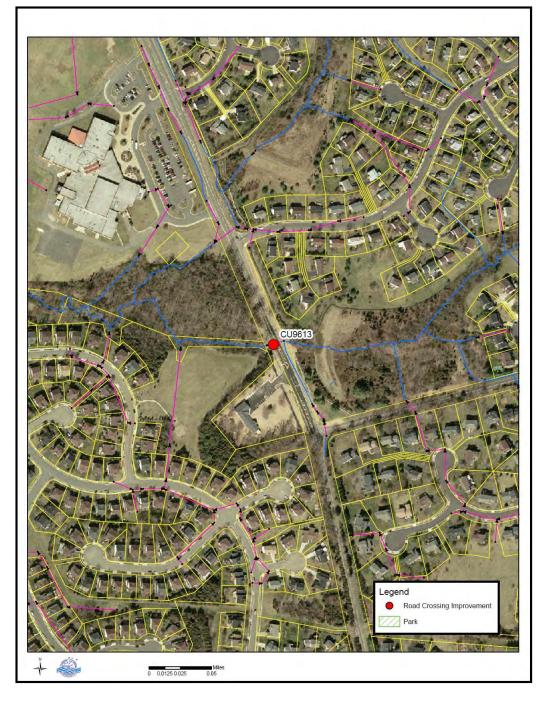
Project ID:	CU9611
Project Type:	Road Crossing Improvement
Location:	Cub Rub at Braddock Road and Old Lee Road within Upper Cub Run subwatershed.
Description:	Raise roadway elevation and replace existing bridge with larger bridge or multiple box culverts to address roadway flooding. Project will not be implemented using Fairfax County stormwater funds. The roads are maintained by the Virginia Department of Transportation and these improvements will be implemented during roadway improvement projects.



Project ID:	CU9612
Project Type:	Road Crossing Improvement
Location:	Pleasant Valley Road at unnamed tributary near Blue Spring Drive within the Upper Cub Run subwatershed
Description:	Raise roadway elevation and replace existing culvert with larger culvert or multiple culverts to address roadway flooding. Project will not be implemented using Fairfax County stormwater funds. The roads are maintained by the Virginia Department of Transportation and these improvements will be implemented during roadway improvement projects.



Project ID:	CU9613
Project Type:	Road Crossing Improvement
Location:	Cain Branch at Lees Corner Road within Cain Branch subwatershed
Description:	Raise roadway elevation and replace existing culvert/bridge with larger culvert or bridge or multiple culverts. Project will not be implemented using Fairfax County stormwater funds. The roads are maintained by the Virginia Department of Transportation and these improvements will be implemented during roadway improvement projects.



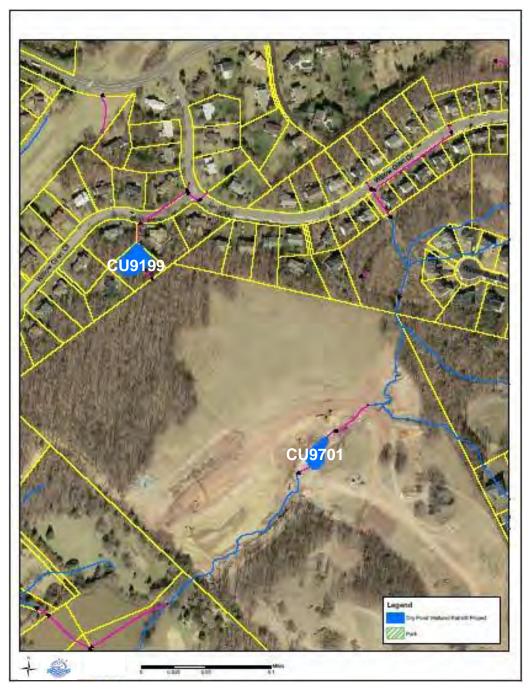
Fact Sheets

Projects CU9701 through CU9722

Cub Run Watershed Dry Pond Retrofit Projects (Part 2)

Projects CU9701 through CU9722. The remaining dry pond retrofit projects are included as projects CU9101 through CU9199. This includes all dry pond retrofit projects including those with a low priority.

Project ID:	CU97	CU9701			
Project Type:	Dry P	Dry Pond Retrofit			
Location:	PIN - Oak H	Rose Grove Drive (New Pond) PIN - 0354 01 0001 Oak Hill Reserve Flatlick Branch			
Description:	nutrie featur struct imple peak	Modify existing dry pond to improve nutrient removal by adding wetland features. Evaluate and modify outlet structure if appropriate. Evaluate and implement options to provide enhanced peak flow control. Public/Private maintenance Unknown			
Project Cost Estimate					
Item	Qty	Units	Total Cost		
Dry Pond Retrofit	1	Pond		\$103,524	
	Bas	e Constru	uction Cost	\$103,524	
Mobilization (5%)				\$5,176	
	Subtotal 1	\$108,700			
	\$27,175				
	\$135,875				
Engineering design, surveys, land \$61,144 acquisition, utility locations, and permits (45%)				\$61,144	
Total \$197,019					
Estimated Project Cost \$198,000					



Project ID:	CU9702
Project Type:	Dry Pond Retrofit
Location:	Autumn Crest Drive and Pond Mist Way PIN - 0354 21 F Oakton Ridge Flatlick Branch
Description:	Modify existing dry pond to improve nutrient removal by adding wetland features. Evaluate and modify outlet structure if appropriate. Evaluate and implement options to provide enhanced peak flow control. Public maintenance

Project Cost Estimate				
Item	Qty	Units	Unit Cost	Total Cost
Dry Pond Retrofit	1	Pond		\$43,629
	Bas	e Constru	iction Cost	\$43,629
Mobilization (5%)				\$2,181
	\$45,810			
Contingency (25%)				\$11,453
	\$57,263			
Engineering design, surveys, land acquisition, utility locations, and permits (45%)			\$25,768	
	Total			
Estimated Project Cost				\$84,000



Project ID:	CU9703
Project Type:	Dry Pond Retrofit
Location:	Oxon Road & Oakton Chase Way PIN - 0354 18 A Oakton Chase Flatlick Branch
Description:	Modify existing dry pond to improve nutrient removal by adding wetland features. Evaluate and modify outlet structure if appropriate. Evaluate and implement options to provide enhanced peak flow control. Public maintenance

	Project Cost Estimate				
Item	Qty	Units	Unit Cost	Total Cost	
Dry Pond Retrofit	1	Pond		\$82,446	
	Base Construction Cost				
Mobilization (5%)			\$4,122		
Subtotal 1				\$86,568	
Contingency (25%)				\$21,642	
Subtotal 2				\$108,210	
Engineering design, surveys, land acquisition, utility locations, and permits (45%)			\$48,695		
Total				\$156,905	
Estimated Project Cost				\$157,000	



Project ID:	CU9704
Project Type:	Dry Pond Retrofit
Location:	Camberley Forest Drive & Wilbury Road PIN - 0354 14 Y Camberley West Flatlick Branch
Description:	Modify existing dry pond to improve nutrient removal by adding wetland features. Evaluate and modify outlet structure if appropriate. Evaluate and implement options to provide enhanced peak flow control. Public maintenance

	Project Cost Estimate			
Item	Qty	Units	Unit Cost	Total Cost
Dry Pond Retrofit	1	Pond		\$63,528
	Bas	e Constru	uction Cost	\$63,528
Mobilization (5%)			\$2,140	
	\$44,932			
Contingency (25%)				\$11,233
	\$56,165			
Engineering design, surveys, land acquisition, utility locations, and permits (45%)			\$25,274	
Total				\$81,439
Estimated Project Cost				\$82,000



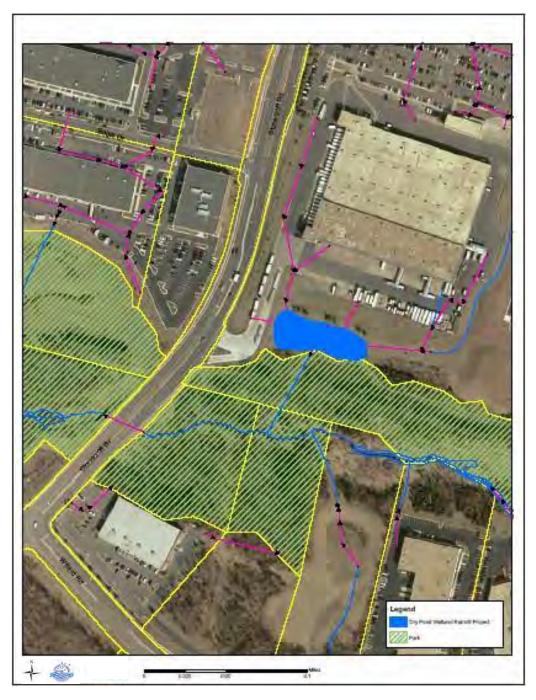
Project ID:	CU9705
Project Type:	Dry Pond Retrofit
Location:	Kentwell Circle PIN - 0531 04 0003 Virginia Run The Estates Elklick Branch
Description:	Modify existing dry pond to improve nutrient removal by adding wetland features. Evaluate and modify outlet structure if appropriate. Private maintenance

	Project Cost Estimate			
Item	Qty	Units	Unit Cost	Total Cost
Dry Pond Retrofit	1	Pond		\$63,528
	Bas	e Constrı	uction Cost	\$63,528
Mobilization (5%)				\$3,176
Subtotal 1				\$66,704
Contingency (25%)				\$16,676
Subtotal 2				\$83,381
Engineering design, surveys, land acquisition, utility locations, and permits (45%)			\$37,521	
	Total			
Estimated Project Cost				\$121,000



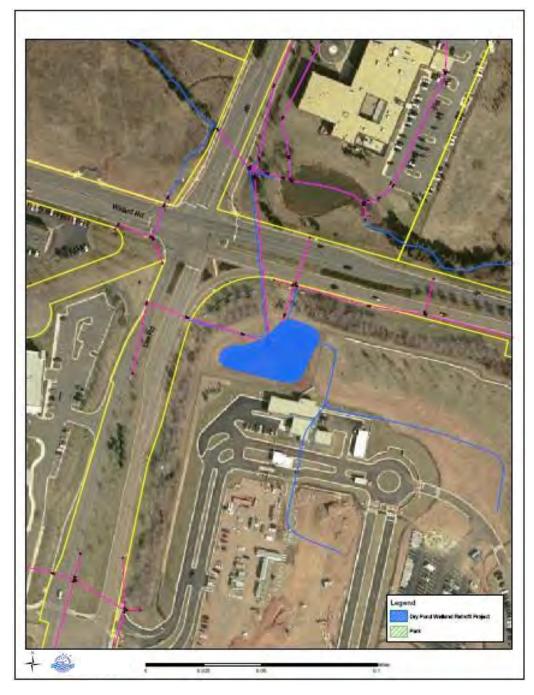
Project ID:	CU9706
Project Type:	Dry Pond Retrofit
Location:	Flint Lee Business Cente, Stonecroft Road PIN - 0334 01 0011B Schneider Branch
Description:	Modify existing dry pond to improve nutrient removal by adding wetland features. Evaluate and modify outlet structure if appropriate. Private maintenance

	Project Cost Estimate			
Item	Qty	Units	Unit Cost	Total Cost
Dry Pond Retrofit	1	Pond		\$41,586
	Bas	e Constrı	uction Cost	\$41,586
Mobilization (5%)			\$2,079	
Subtotal 1				\$43,665
Contingency (25%)				\$10,916
Subtotal 2				\$54,582
Engineering design, surveys, land acquisition, utility locations, and permits (45%)			\$24,562	
	Total			
Estimated Project Cost				\$80,000



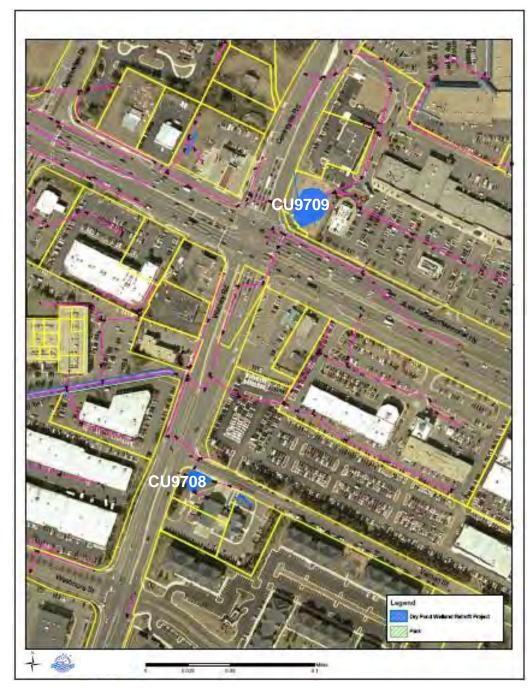
Project ID:	CU9707
Project Type:	Dry Pond Retrofit
Location:	Lee Road and Willard Road PIN - 0441 04 0041 Westfields International Center at Dulles Schneider Branch
Description:	Modify existing dry pond to improve nutrient removal by adding wetland features. Evaluate and modify outlet structure if appropriate. Private maintenance

	Project Cost Estimate			
Item	Qty	Units	Unit Cost	Total Cost
Dry Pond Retrofit	1	Pond		\$40,119
	Bas	e Constrı	uction Cost	\$40,119
Mobilization (5%)			\$2,006	
Subtotal 1				\$42,125
	\$10,531			
Subtotal 2				\$52,656
Engineering design, surveys, land acquisition, utility locations, and permits (45%)			\$23,695	
	Total			
Estimated Project Cost				\$77,000



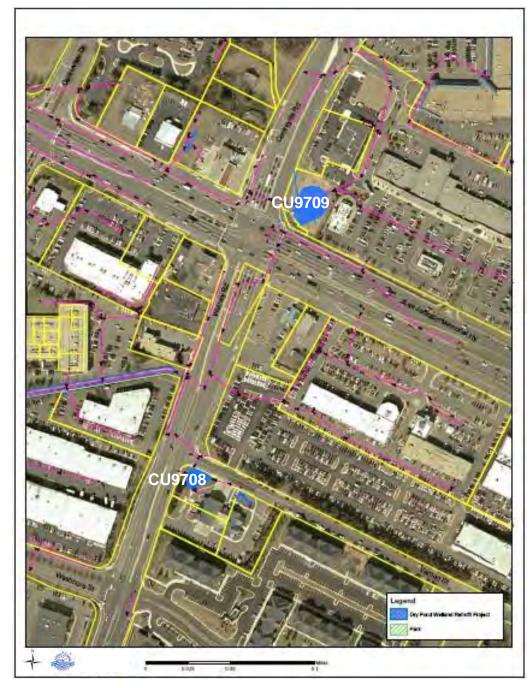
Project ID:	CU9708
Project Type:	Dry Pond Retrofit – Low Priority
Location:	Walney Road & Vernon Street P0344 06 0061 Rockland Village Schneider Branch
Description:	Modify existing dry pond to improve nutrient removal by adding wetland features. Evaluate and modify outlet structure if appropriate. Public maintenance

	Project Cost Estimate			
Item	Qty	Units	Unit Cost	Total Cost
Dry Pond Retrofit	1	Pond		\$31,812
	Bas	e Constru	uction Cost	\$31,812
Mobilization (5%)				\$1,591
	\$33,403			
	\$8,351			
Subtotal 2				\$41,753
Engineering design, surveys, land acquisition, utility locations, and permits (45%)			\$18,789	
	Total			
Estimated Project Cost				\$61,000



Project ID:	CU9709
Project Type:	Dry Pond Retrofit
Location:	Sully Plaza, Route 50 and Centreville Road PIN - 0344 01 0016C Schneider Branch
Description:	Modify existing dry pond to improve nutrient removal by adding wetland features. Evaluate and modify outlet structure if appropriate. Private maintenance

	Project Cost Estimate			
Item	Qty	Units	Unit Cost	Total Cost
Dry Pond Retrofit	1	Pond		\$33,207
	Bas	e Constru	uction Cost	\$33,207
Mobilization (5%)				\$1,660
	\$34,867			
	\$8,717			
Subtotal 2				\$43,584
Engineering design, surveys, land acquisition, utility locations, and permits (45%)			\$19,613	
Total				\$63,197
Estimated Project Cost				\$64,000



Project ID:	CU9710
Project Type:	Dry Pond Retrofit
Location:	Westfax Industrial Park, Route 50 and Westfax Drive PIN - 0343 01 0002A Cain Branch
Description:	Modify existing dry pond to improve nutrient removal by adding wetland features. Evaluate and modify outlet structure if appropriate. Private maintenance

	Project Cost Estimate			
Item	Qty	Units	Unit Cost	Total Cost
Dry Pond Retrofit	1	Pond		\$36,276
	Bas	e Constrı	uction Cost	\$36,276
Mobilization (5%)				\$1,814
	\$38,090			
	\$9,522			
Subtotal 2				\$47,612
Engineering design, surveys, land acquisition, utility locations, and permits (45%)			\$21,426	
	Total			
Estimated Project Cost				\$70,000



Project ID:	CU9711
Project Type:	Dry Pond Retrofit
Location:	Franklin Middle School, Centreville Road PIN - 0342 01 0029 Cain Branch
Description:	Modify existing dry pond to improve nutrient removal by adding wetland features. Evaluate and modify outlet structure if appropriate. Private maintenance

	Project Cost Estimate			
Item	Qty	Units	Unit Cost	Total Cost
Dry Pond Retrofit	1	Pond		\$72,996
	Bas	e Constru	uction Cost	\$72,996
Mobilization (5%)			\$3,650	
Subtotal 1				\$76,646
Contingency (25%)				\$19,161
Subtotal 2				\$95,807
Engineering design, surveys, land acquisition, utility locations, and permits (45%)			\$43,113	
Total				\$138,921
Estimated Project Cost				\$139,000



Project ID:	CU9712
Project Type:	Dry Pond Retrofit
Location:	Centreville Road & Armfield Farm Drive PIN - 0342 01 0029 Armfield Farms Cain Branch
Description:	Modify existing dry pond to improve nutrient removal by adding wetland features. Evaluate and modify outlet structure if appropriate. Public maintenance

	Project Cost Estimate				
Item	Qty	Units	Unit Cost	Total Cost	
Dry Pond Retrofit	1	Pond		\$51,117	
	Bas	e Constru	iction Cost	\$51,117	
Mobilization (5%)				\$2,556	
	\$53,673				
	\$13,418				
Subtotal 2				\$67,091	
Engineering design, surveys, land acquisition, utility locations, and permits (45%)			\$30,191		
	Total				
Estimated Project Cost				\$98,000	



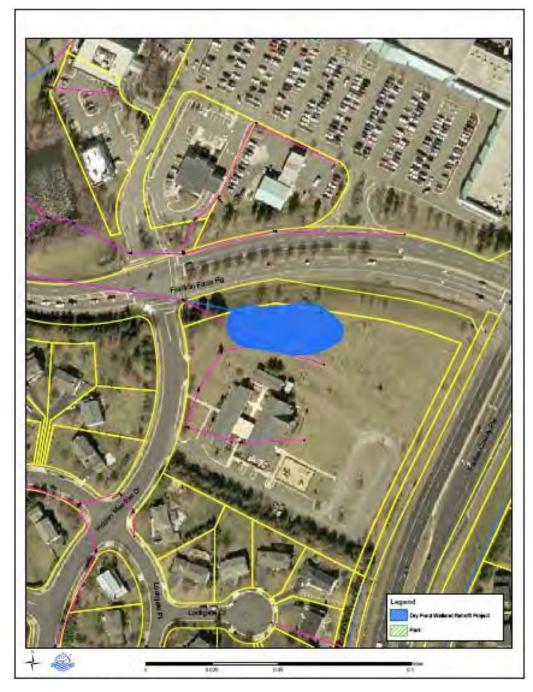
Project ID:	CU9713
Project Type:	Dry Pond Retrofit
Location:	Lees Corner Road & Old Dairy Road PIN - 0343 01 0002A Franklin Farm Cain Branch
Description:	Modify existing dry pond to improve nutrient removal by adding wetland features. Evaluate and modify outlet structure if appropriate. Public maintenance

	Project Cost Estimate			
Item	Qty	Units	Unit Cost	Total Cost
Dry Pond Retrofit	1	Pond		\$104,217
	Bas	e Constru	uction Cost	\$104,217
Mobilization (5%)				\$5,211
Subtotal 1				\$109,428
Contingency (25%)				\$27,357
Subtotal 2				\$136,785
Engineering design, surveys, land acquisition, utility locations, and permits (45%)			\$61,553	
	Total			
Estimated Project Cost				\$199,000



Project ID:	CU9714
Project Type:	Dry Pond Retrofit
Location:	Franklin Farm Road and Hidden Meadow Drive PIN - 0351 04200001 Franklin Farm Cain Branch
Description:	Modify existing dry pond to improve nutrient removal by adding wetland features. Evaluate and modify outlet structure if appropriate. Private maintenance

	Project Cost Estimate			
Item	Qty	Units	Unit Cost	Total Cost
Dry Pond Retrofit	1	Pond		\$30,507
	Bas	e Constrı	uction Cost	\$30,507
Mobilization (5%)				\$1,525
	\$32,032			
	\$8,008			
	\$40,040			
Engineering design, surveys, land acquisition, utility locations, and permits (45%)			\$18,018	
	Total			
Estimated Project Cost				\$59,000



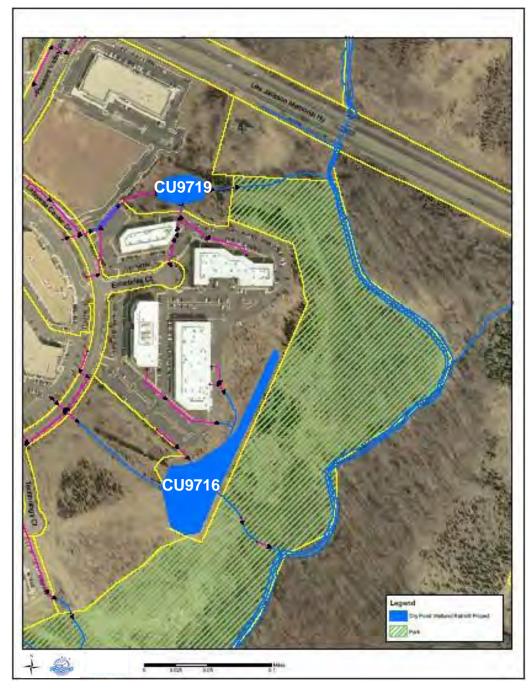
Project ID:	CU9715
Project Type:	Dry Pond Retrofit
Location:	Between Pleasant Valley Road and Silas Hutchinson Drive PIN - 0334 02 A1 Pleasant Valley Upper Cub Run
Description:	Modify existing dry pond to improve nutrient removal by adding wetland features. Evaluate and modify outlet structure if appropriate. Public maintenance

	Project Cost Estimate			
Item	Qty	Units	Unit Cost	Total Cost
Dry Pond Retrofit	1	Pond		\$32,883
	Bas	e Constru	uction Cost	\$32,883
	Mobilization (5%)			\$1,644
	\$34,527			
	\$8,632			
	\$43,159			
Engineering design, surveys, land acquisition, utility locations, and permits (45%)			\$19,422	
	Total			
Estimated Project Cost				\$63,000



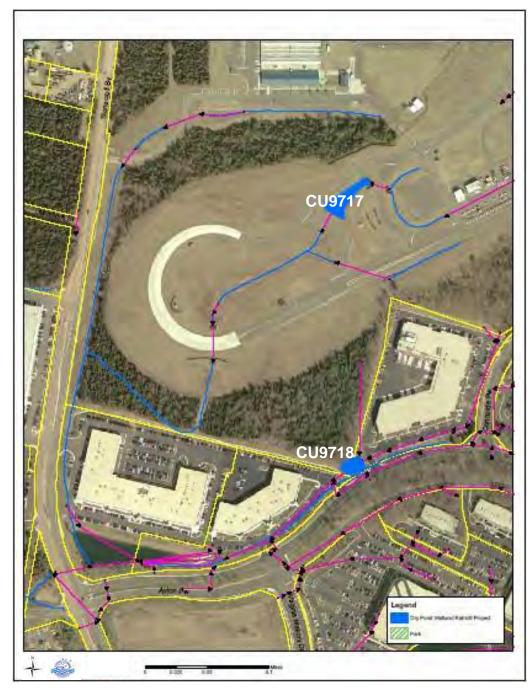
Project ID:	CU9716
Project Type:	Dry Pond Retrofit
Location:	Technology Court & Lafayette Center PIN - 0332 04 0002 Lafayette Business Center Upper Cub Run
Description:	Modify existing dry pond to improve nutrient removal by adding wetland features. Evaluate and modify outlet structure if appropriate. Private maintenance

	Project Cost Estimate			
Item	Qty	Units	Unit Cost	Total Cost
Dry Pond Retrofit	1	Pond		\$44,664
	Bas	e Constru	uction Cost	\$44,664
Mobilization (5%)				\$2,233
	\$46,897			
	\$11,724			
Subtotal 2				\$58,622
Engineering design, surveys, land acquisition, utility locations, and permits (45%)			\$26,380	
	Total			
Estimated Project Cost				\$86,000



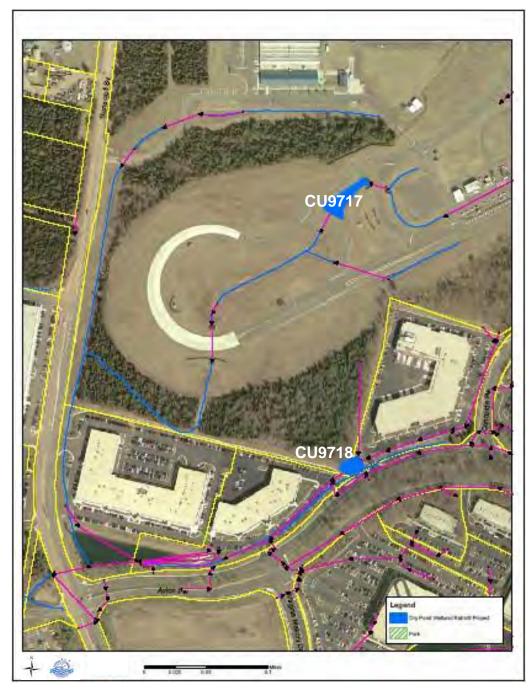
Project ID:	CU9717
Project Type:	Dry Pond Retrofit
Location:	Driving Training Center, Stonecroft Boulevard PIN - 0341 01 0005 Cain Branch
Description:	Modify existing dry pond to improve nutrient removal by adding wetland features. Evaluate and modify outlet structure if appropriate. Public maintenance

	Project Cost Estimate			
Item	Qty	Units	Unit Cost	Total Cost
Dry Pond Retrofit	1	Pond		\$39,570
	Bas	e Constru	uction Cost	\$39,570
Mobilization (5%)			\$1,979	
Subtotal 1				\$41,549
Contingency (25%)				\$10,387
Subtotal 2				\$51,936
Engineering design, surveys, land acquisition, utility locations, and permits (45%)			\$23,371	
	Total			
Estimated Project Cost				\$76,000



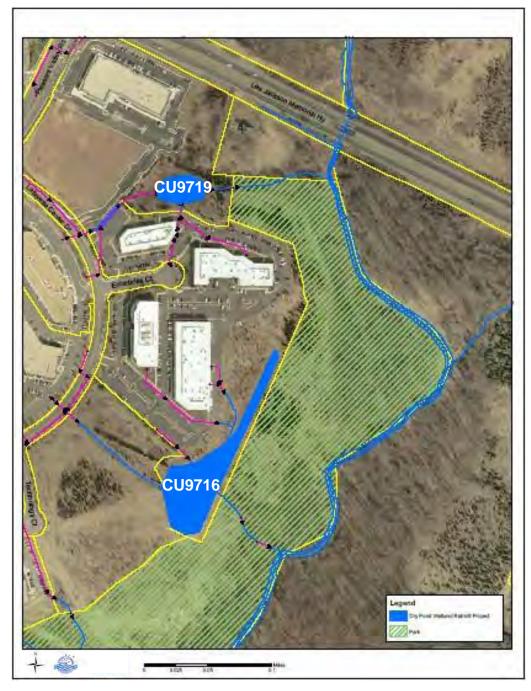
Project ID:	CU9718
Project Type:	Dry Pond Retrofit
Location:	Avion Parkway & Virginia Mallory Drive PIN - 0341 03 D2 Avion Cain Branch
Description:	Modify existing dry pond to improve nutrient removal by adding wetland features. Evaluate and modify outlet structure if appropriate. Public maintenance

	Project Cost Estimate			
Item	Qty	Units	Unit Cost	Total Cost
Dry Pond Retrofit	1	Pond		\$35,025
	Bas	e Constru	uction Cost	\$35,025
Mobilization (5%)				\$1,751
Subtotal 1				\$36,776
Contingency (25%)				\$9,194
	\$45,970			
Engineering design, surveys, land acquisition, utility locations, and permits (45%)			\$20,687	
	Total			
Estimated Project Cost				\$67,000



Project ID:	CU9719		
Project Type:	Dry Pond Retrofit		
Location:	Lafayette Business Center, Lafayette Center Drive PIN - 0332 04 0001 Lafayette Business Center Upper Cub Run		
Description:	Modify existing dry pond to improve nutrient removal by adding wetland features. Evaluate and modify outlet structure if appropriate. Private maintenance		

Project Cost Estimate					
Item	Qty	Units	Unit Cost	Total Cost	
Dry Pond Retrofit	1	Pond		\$46,842	
	\$46,842				
Mobilization (5%)				\$2,342	
	\$49,184				
	\$12,296				
	\$61,480				
Engineering design, surveys, land acquisition, utility locations, and permits (45%)				\$27,666	
Total				\$89,146	
Estimated Project Cost				\$90,000	



Project ID:	CU9720
Project Type:	Dry Pond Retrofit
Location:	Stonecroft Boulevard. & Thompson Road PIN - 0341 01 0005 Near Driving Training Center Dead Run
Description:	Modify existing dry pond to improve nutrient removal by adding wetland features. Evaluate and modify outlet structure if appropriate. Public maintenance

	Project Cost Estimate				
Item	Qty	Total Cost			
Dry Pond Retrofit	1	Pond		\$37,293	
	Bas	e Constru	uction Cost	\$37,293	
	Mobilization (5%)				
	Subtotal 1				
	\$9,789				
	\$48,947				
Engineering design, surveys, land acquisition, utility locations, and permits (45%)				\$22,026	
	\$70,973				
	\$71,000				



Project ID:	CU9721
Project Type:	Dry Pond Retrofit
Location:	Dulles International Centre, Eds Drive PIN - 0244 03 B Dulles International Centre Dead Run
Description:	Modify existing dry pond to improve nutrient removal by adding wetland features. Evaluate and modify outlet structure if appropriate. Private maintenance

Project Cost Estimate					
Item	Qty	Units	Total Cost		
Dry Pond Retrofit	1	Pond		\$75,345	
	Bas	e Constru	uction Cost	\$75,345	
	Mobilization (5%)				
	\$79,112				
	\$19,778				
	\$98,890				
Engineering design, surveys, land acquisition, utility locations, and permits (45%)				\$44,501	
	Total				
Estimated Project Cost				\$144,000	



Project ID:	CU9722
Project Type:	Dry Pond Retrofit
Location:	Dulles Gateway Center Renaissance Park, Park Center Road PIN - 0242 01 0022E Dead Run
Description:	Modify existing dry pond to improve nutrient removal by adding wetland features. Evaluate and modify outlet structure if appropriate. Private maintenance

Project Cost Estimate					
Item	Qty	Units	Total Cost		
Dry Pond Retrofit	1	Pond		\$33,045	
	Bas	e Constru	uction Cost	\$33,045	
	Mobilization (5%)				
	\$34,697				
	\$8,674				
	\$43,372				
Engineering design, surveys, land acquisition, utility locations, and permits (45%)				\$19,517	
	Total				
Estimated Project Cost				\$63,000	



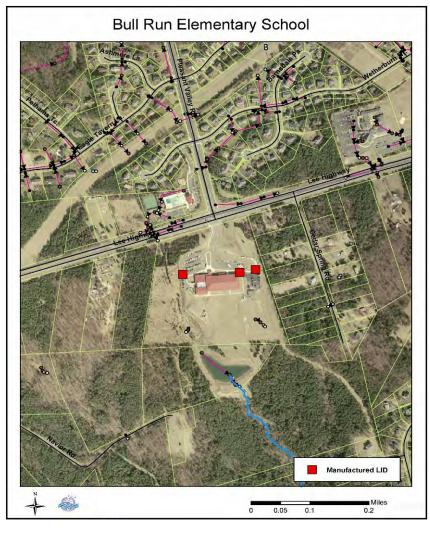
Fact Sheets

Projects CU9801 through CU9825

Cub Run Watershed LID Retrofit Projects at Public Facilities

Projects CU9801 through CU9825

Project ID:	CU9801
Project Type:	LID Projects at Public Facility
Location:	Bull Run Elementary School. Route 29 and Pleasant Valley Road. Middle Cub Run Watershed.
Description:	Implement LID project at Bull Run Elementary School. Conceptual plan consists of three manufactured bioretention units at three locations. Area served = 1.4 acres



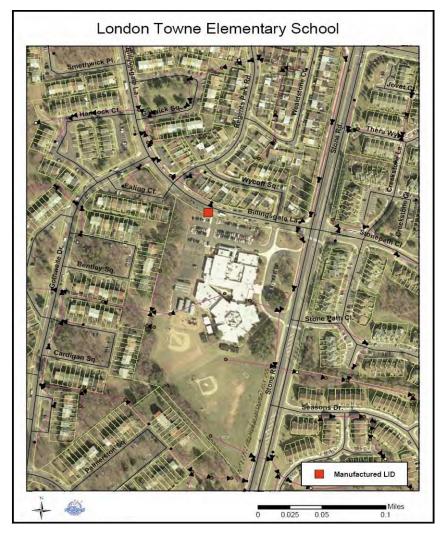
Project Cost Estimate							
Item	Quantity	Quantity Unit Unit Cost					
Manufactured Bioretention Units	3			\$63,450			
		Base	Construction Cost	\$63,450			
			Mobilization (5%)	\$3,173			
Subtotal 1				\$66,623			
Contingency (25%)				\$16,656			
Subtotal 2				\$83,279			
Engineering design, surveys, land acquisition, utility locations, and permits (45%)				\$37,476			
Total				\$120,755			
Estimated Project Cost				\$121,000			

Project ID:	CU9802
Project Type:	LID Projects at Public Facility
Location:	Centre Ridge Elementary School. New Braddock Road and Store House Drive. Lower Cub Run Watershed.
Description:	Implement LID project at Centre Ridge Elementary School. Conceptual plan consists of four manufactured bioretention units at two locations. Area served = 1.4 acres

<section-header>

Item	Quantity	Quantity Unit Unit Cost				
Manufactured Bioretention Units	4			\$68,400		
		Base	Construction Cost	\$68,400		
	Mobilization (5%)	\$3,420				
Subtotal 1				\$71,820		
Contingency (25%)				\$17,955		
Subtotal 2				\$89,775		
Engineering design, surveys, land acquisition, utility locations, and permits (45%)				\$40,399		
Total				\$130,174		
Estimated Project Cost				\$131,000		

Project ID:	CU9803
Project Type:	LID Projects at Public Facility
Location:	London Towne Elementary School. Stone Road and Billingsgate Lane. Middle Cub Run Watershed.
Description:	Implement LID project at London Towne Elementary School. Conceptual plan consists of two manufactured bioretention units at one location. Area served = 0.7 acres



Project Cost Estimate						
Item	Quantity Unit Unit Cost Total Co					
Manufactured Bioretention Units	2			\$34,200		
		Base	Construction Cost	\$34,200		
	\$1,710					
Subtotal 1				\$35,910		
Contingency (25%)				\$8,978		
Subtotal 2				\$44,888		
Engineering design, surveys, land acquisition, utility locations, and permits (45%)				\$20,200		
Total				\$65,088		
Estimated Project Cost				\$66,000		

Project ID:	CU9804	Centreville Library
Project Type:	LID Projects at Public Facility	
Location:	Centreville Library. Machen Road and Saint Germain Drive. Big Rocky Run watershed.	Loe Htghway
Description:	Implement LID project at Centreville Library. Conceptual plan consists of four manufactured bioretention units at two locations. Area served = 1.6 acres	Lee Highway Lee Highway Saint Cormate Dr. Saint Cormate Dr. Saint Cormate Dr.
		Avpedor cl

Miles 0.1

0

0.025

0.05

Item	Item Quantity Unit Unit Cost						
Manufactured Bioretention Units	4			\$76,200			
		Base	Construction Cost	\$76,200			
	\$3,810						
	\$80,010						
	\$20,003						
	\$100,013						
Engineering design, surveys, land acquisition, utility locations, and permits (45%)				\$45,006			
Total				\$145,019			
	\$146,000						

Project ID:	CU9805	Ellanor C Lawrence Park
Project Type:	LID Projects at Public Facility	
Location:	Ellanor C Lawrence Park playing fields parking lot Route 28. Big Rocky Run watershed.	
Description:	Implement LID project at Ellanor C. Lawrence Park playing fields parking lot. Conceptual plan consists of 6 manufactured bioretention units at two locations. Area served = 2.7 acres	

fured LID

0.2

0.05

0

0.1

Project Cost Estimate				
Item	Quantity	Unit	Unit Cost	Total Cost
Manufactured Bioretention Units	6			\$122,550
		Base	Construction Cost	\$122,550
Mobilization (5%)				\$6,128
Subtotal 1				\$128,678
Contingency (25%)				\$32,170
Subtotal 2				\$160,848
Engineering design, surveys, land acquisition, utility locations, and permits (45%)				\$72,382
Total				\$233,230
Estimated Project Cost				\$234,000

Project ID:	CU9806
Project Type:	LID Projects at Public Facility.
Location:	Cabells Mill Parking Area. (Ellanor C Lawrence Park). Walney Road north of Cabell's Mill Drive. Big Rocky Run watershed.
Description:	Retrofit existing bioretention area which receives drainage from residential area and improve general drainage



Project Cost Estimate							
Item	Item Quantity Unit Unit Cost						
Retrofit existing bioretention facility				\$37,500			
		Base	Construction Cost	\$37,500			
	\$1,875						
	\$39,375						
	\$9,844						
	\$49,219						
Engineering design, surveys, land acquisition, utility locations, and permits (45%)				\$22,149			
	\$71,368						
	\$72,000						

Project ID:	CU9807
Project Type:	LID Projects at Public Facility
Location:	Stringfellow Road Commuter Lot. Stringfellow Road near Route 66. Big Rocky Run watershed.
Description:	Implement LID project at Stringfellow Road commuter lot. Conceptual plan consists of six manufactured bioretention units at two locations. Area served = 2.9 acres

Stringfellow Road Commuter Lot



Item	Item Quantity Unit Unit Cost						
Manufactured Bioretention Units	6			\$130,050			
		Base	Construction Cost	\$130,050			
	Mobilization (5%)	\$6,503					
	\$136,553						
	\$34,138						
	Subtotal 2	\$170,691					
Engineering design, surveys, land acquisition, utility locations, and permits (45%)				\$76,811			
Total				\$247,502			
Estimated Project Cost				\$248,000			

Project ID:	CU9808	Poplar Tree Park
Project Type:	LID Projects at Public Facility	
Location:	Poplar Tree Park playing field parking lot. Stringfellow Road near Northbourne Drive. Big Rocky Run watershed.	
Description:	Implement LID project at Poplar Tree Park playing field parking lot. Conceptual plan consists of two manufactured bioretention units at one location. Area served = 0.9 acres	Image: main distance

+

0.1

0.025

0.05

Project Cost Estimate						
Item	Item Quantity Unit Unit Cost					
Manufactured Bioretention Units	2			\$37,350		
		Base	Construction Cost	\$37,350		
	\$1,868					
	\$39,218					
	\$9,805					
	\$49,023					
Engineering design, surveys, land acquisition, utility locations, and permits (45%)				\$22,060		
Total				\$71,083		
Estimated Project Cost				\$72,000		

Project ID:	CU9809
Project Type:	LID Projects at Public Facility
Location:	Poplar Tree Elementary School. Melville Lane near Granite Rock Drive. Big Rocky Run watershed.
Description:	Implement LID project at Poplar Tree Elementary School. Conceptual plan consists of three manufactured bioretention units at three locations. Evaluate and retrofit stormwater outfalls from school to Big Rocky Run. Area served = 1.1 acres

Poplar Tree Elementary School



Item	Item Quantity Unit Unit Cost						
Manufactured Bioretention Units	3			\$53,250			
		Base	Construction Cost	\$53,250			
	Mobilization (5%)	\$2,663					
	\$55,913						
	\$13,978						
	\$69,891						
Engineering design, surveys, land acquisition, utility locations, and permits (45%)				\$31,451			
Total				\$101,342			
Estimated Project Cost				\$102,000			

Project ID:	CU9810
Project Type:	LID Projects at Public Facility
Location:	Rocky Run Middle School. Stringfellow Road and Poplar Tree Road. Frog Branch watershed.
Description:	Implement LID project at Rocky Run Middle School. Conceptual plan consists of five manufactured bioretention units at three locations. Area served = 1.9 acres

<section-header>

Project Cost Estimate				
Item	Quantity	Unit	Unit Cost	Total Cost
Manufactured Bioretention Units	5			\$91,350
		Base	Construction Cost	\$91,350
Mobilization (5%)				\$4,568
Subtotal 1				\$95,918
Contingency (25%)				\$23,980
Subtotal 2				\$119,898
Engineering design, surveys, land acquisition, utility locations, and permits (45%)			nd permits (45%)	\$53,954
Total				\$173,852
Estimated Project Cost				\$174,000

Project ID:	CU9811	Greenbriar East Elementary School
Project Type:	LID Projects at Public Facility	
Location:	Greenbriar East Elementary School. Point Pleasant Drive near Middle Ridge Drive. Big Rocky Run watershed.	Renhypacker ta
Description:	Implement LID project Greenbriar East Elementary School. Conceptual plan consists of one manufactured bioretention unit at one location. Area served = 0.5 acres	Parson La Parson La Menory La
		Manufactured LID Miles 0 0.025 0.05 0.1

Project Cost Estimate				
Item	Quantity	Unit	Unit Cost	Total Cost
Manufactured Bioretention Units	1			\$22,200
		Base	Construction Cost	\$22,200
Mobilization (5%)			Mobilization (5%)	\$1,110
Subtotal 1			\$23,310	
Contingency (25%)				\$5,828
Subtotal 2				\$29,138
Engineering design, surveys, land acquisition, utility locations, and permits (45%)			\$13,112	
Total				\$42,250
Estimated Project Cost				\$43,000

Project ID:	CU9812
Project Type:	LID Projects at Public Facility
Location:	Stone Middle School. Braddock Road and Sully Park Drive. Round Lick Branch.
Description:	Implement LID project at Stone Middle School. Conceptual plan consists of three manufactured bioretention units at two locations. Area served = 1.6 acres



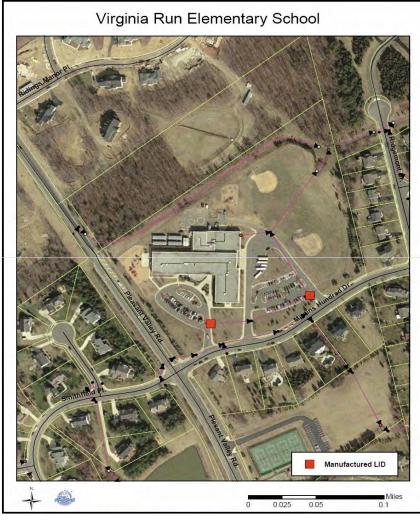
Project Cost Estimate				
Item	Quantity	Unit	Unit Cost	Total Cost
Manufactured Bioretention Units	3			\$66,600
		Base	Construction Cost	\$66,600
Mobilization (5%)				\$3,330
Subtotal 1				\$69,930
Contingency (25%)				\$17,483
Subtotal 2				\$87,413
Engineering design, surveys, land acquisition, utility locations, and permits (45%)			\$39,336	
Total				\$126,749
Estimated Project Cost				\$127,000

Project ID:	CU9813	Deer P
Project Type:	LID Projects at Public Facility	
Location:	Deer Park Elementary School. Carlbern Drive at Barrymore Road. Middle Cub Run watershed.	
Description:	Implement LID project at Deer Park Elementary School. Conceptual plan consists of four manufactured bioretention units at two locations. Area served = 1.8 acres	



Project Cost Estimate				
Item	Quantity	Unit	Unit Cost	Total Cost
Manufactured Bioretention Units	4			\$79,350
		Base	Construction Cost	\$79,350
Mobilization (5%)				\$3,968
Subtotal 1				\$83,318
Contingency (25%)				\$20,830
Subtotal 2				\$104,148
Engineering design, surveys, land acquisition, utility locations, and permits (45%)			\$46,867	
Total				\$151,015
Estimated Project Cost				\$152,000

Project ID:	CU9814
Project Type:	LID Projects at Public Facility
Location:	Virginia Run Elementary School. Pleasant Valley Road and Martins Hundred Drive. Middle Cub Run watershed.
Description:	Implement LID project at Virginia Run Elementary School. Conceptual plan consists of two manufactured bioretention units at two locations. Area served = 1.0 acres



Project Cost Estimate				
Item	Quantity	Unit	Unit Cost	Total Cost
Manufactured Bioretention Units	2			\$44,400
		Base	Construction Cost	\$44,400
Mobilization (5%)				\$2,220
Subtotal 1				\$46,620
Contingency (25%)				\$11,665
Subtotal 2				\$58,275
Engineering design, surveys, land acquisition, utility locations, and permits (45%)			\$26,224	
Total				\$84,499
Estimated Project Cost				\$85,000

Project ID:	CU9815
Project Type:	LID Projects at Public Facility
Location:	Cub Run Elementary School. Braddock Road and Sully Station Drive. Flatlick Branch watershed.
Description:	Implement LID project at Cub Run Elementary School. Conceptual plan consists of two manufactured bioretention units at one location. Area served = 1.0 acres

<section-header>

Project Cost Estimate				
Item	Quantity	Unit	Unit Cost	Total Cost
Manufactured Bioretention Units	2			\$41,250
		Base	Construction Cost	\$41,250
Mobilization (5%)			Mobilization (5%)	\$2,063
Subtotal 1			\$43,313	
Contingency (25%)			\$10,828	
Subtotal 2				\$54,141
Engineering design, surveys, land acquisition, utility locations, and permits (45%)			\$24,363	
Total				\$78,504
Estimated Project Cost				\$79,000

Project ID:	CU9816
Project Type:	LID Projects at Public Facility
Location:	Sully District Supervisor's Office. Stonecroft Boulevard west of Westfields Boulevard. Flatlick Branch watershed.
Description:	Implement LID project at Sully District Supervisor's Office. Conceptual plan consists of one manufactured bioretention unit at one location. Area served = 0.5 acres

Sully District Supervisor's Office



Project Cost Estimate							
Item	Quantity	Quantity Unit Unit Cost Total Cost					
Manufactured Bioretention Units	1			\$22,200			
		Base	Construction Cost	\$22,200			
Mobilization (5%)				\$1,110			
Subtotal 1				\$23,310			
Contingency (25%)				\$5,828			
Subtotal 2				\$29,138			
Engineering design, surveys, land acquisition, utility locations, and permits (45%)				\$13,112			
Total				\$42,250			
Estimated Project Cost				\$43,000			

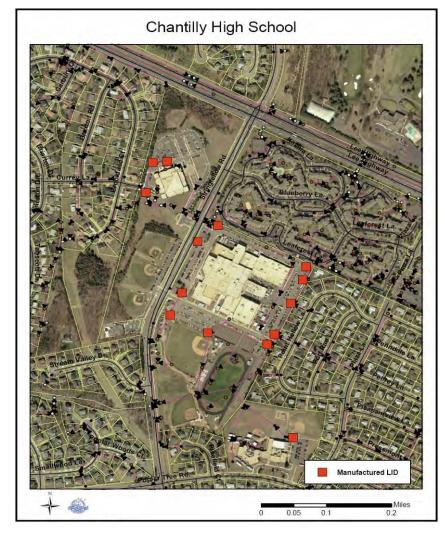
Project ID:	CU9817	Chantilly Library
Project Type:	LID Projects at Public Facility	
Location:	Chantilly Library. Stringfellow Road south of Route 50. Frog Branch watershed.	
Description:	Implement LID project at Chantilly Library. Conceptual plan consists of five manufactured bioretention units at three locations. Area served = 2.0 acres	
		The second secon

Miles

0 0.0125 0.025

Project Cost Estimate				
Item	Quantity	Unit	Unit Cost	Total Cost
Manufactured Bioretention Units	5			\$92,850
		Base	Construction Cost	\$92,850
Mobilization (5%)				\$4,643
Subtotal 1				\$97,493
Contingency (25%)				\$24,373
Subtotal 2				\$121,866
Engineering design, surveys, land acquisition, utility locations, and permits (45%)				\$54,840
Total				\$176,706
Estimated Project Cost				\$177,000

Project ID:	CU9818
Project Type:	LID Projects at Public Facility
Location:	Chantilly High School. Stringfellow Road south of Route 50. Frog Branch watershed.
Description:	Implement LID project at Chantilly High School. Conceptual plan consists of sixteen manufactured bioretention units at ten locations. Area served = 6.4 acres



Project Cost Estimate							
Item	Quantity	Quantity Unit Unit Cost Tota					
Manufactured Bioretention Units	16			\$303,000			
		Base	Construction Cost	\$303,000			
Mobilization (5%)				\$15,150			
Subtotal 1				\$318,150			
Contingency (25%)				\$79,538			
Subtotal 2				\$397,688			
Engineering design, surveys, land acquisition, utility locations, and permits (45%)			\$178,960				
Total				\$576,648			
Estimated Project Cost				\$577,000			

Project ID:	CU9819	Greenbriar West Elementary School
Project Type:	LID Projects at Public Facility	Con Block
Location:	Greenbriar West Elementary School. Poplar Tree Road near Plaza Lane. Frog Branch watershed.	Domition La
Description:	Implement LID project at Greenbriar West Elementary School. Conceptual plan consists of two manufactured bioretention units at one location. Area served = 0.7 acres	
		T

Miles 0.025 0.05 0.1

Project Cost Estimate							
Item	Quantity	Quantity Unit Unit Cost Total Cost					
Manufactured Bioretention Units	2			\$33,750			
		Base	Construction Cost	\$33,750			
Mobilization (5%)				\$1,688			
Subtotal 1				\$35,438			
Contingency (25%)				\$8,860			
Subtotal 2				\$44,298			
Engineering design, surveys, land acquisition, utility locations, and permits (45%)			\$19,934				
Total				\$64,232			
Estimated Project Cost				\$65,000			

Project ID:	CU9820
Project Type:	LID Projects at Public Facility
Location:	Brookfield Elementary School. Lees Corner Road south of Tabscott Drive. Frog Branch and Flatlick Branch watersheds.
Description:	Implement LID project at Brookfield Elementary School. Conceptual plan consists of four manufactured bioretention units at three locations. Area served = 1.7 acres

Brookfield Elementary School



Project Cost Estimate							
Item	Quantity	Quantity Unit Unit Cost Total Cost					
Manufactured Bioretention Units	4			\$78,600			
		Base	Construction Cost	\$78,600			
Mobilization (5%)				\$3,930			
Subtotal 1				\$82,520			
Contingency (25%)				\$20,633			
Subtotal 2				\$103,163			
Engineering design, surveys, land acquisition, utility locations, and permits (45%)			\$46,423				
Total				\$149,586			
Estimated Project Cost				\$150,000			

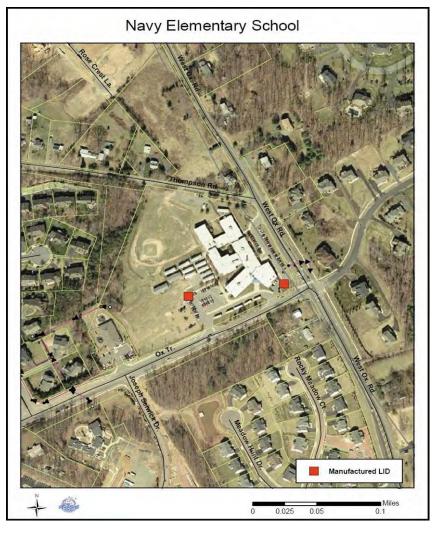
Project ID:	CU9821
Project Type:	LID Projects at Public Facility
Location:	Lees Corner Elementary School. Hollinger Avenue east of Lees Corner Road. Oxlick Branch.
Description:	Implement LID project at Lees Corner Elementary School. Conceptual plan consists of three manufactured bioretention units at three locations. Area served = 1.1 acres

Lees Corner Elementary School



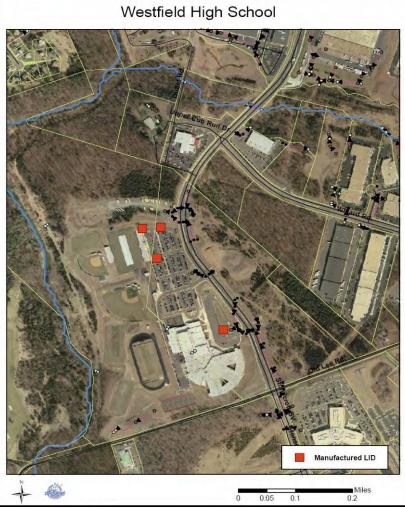
Project Cost Estimate				
Item	Quantity	Unit	Unit Cost	Total Cost
Manufactured Bioretention Units	3			\$52,800
		Base	Construction Cost	\$52,800
Mobilization (5%)				\$2,640
Subtotal 1				\$55,440
Contingency (25%)				\$13,860
Subtotal 2				\$69,300
Engineering design, surveys, land acquisition, utility locations, and permits (45%)			\$31,185	
Total				\$100,485
Estimated Project Cost				\$101,000

Project ID:	CU9822
Project Type:	LID Projects at Public Facility
Location:	Navy Elementary School. West Ox Road and Ox Trail. Oxlick Branch.
Description:	Implement LID project at Navy Elementary School. Conceptual plan consists of two manufactured bioretention units at two locations. Area served = 0.6 acres



Project Cost Estimate				
Item	Item Quantity Unit Unit Cost			
Manufactured Bioretention Units	2			\$30,300
		Base	Construction Cost	\$30,300
	Mobilization (5%)			\$1,515
Subtotal 1			\$31,815	
Contingency (25%)			\$7,954	
Subtotal 2			\$39,769	
Engineering design, surveys, land acquisition, utility locations, and permits (45%)		\$17,896		
Total			\$57,665	
Estimated Project Cost			\$58,000	

Project ID:	CU9823	
Project Type:	LID Projects at Public Facility	
Location:	Westfield High School, Stonecroft Boulevard and Old Lee Road. Upper Cub Run watershed.	
Description:	Implement LID project at Westfield High School. Conceptual plan consists of four manufactured bioretention units at four locations. Area served = 1.5 acres	



Project Cost Estimate				
Item	Quantity	Unit	Unit Cost	Total Cost
Manufactured Bioretention Units	4			\$67,950
		Base	Construction Cost	\$67,950
			Mobilization (5%)	\$3,398
Subtotal 1			\$71,348	
Contingency (25%)			\$17,837	
Subtotal 2			\$89,185	
Engineering design, surveys, land acquisition, utility locations, and permits (45%)			\$40,133	
Total			\$129,318	
Estimated Project Cost			\$130,000	

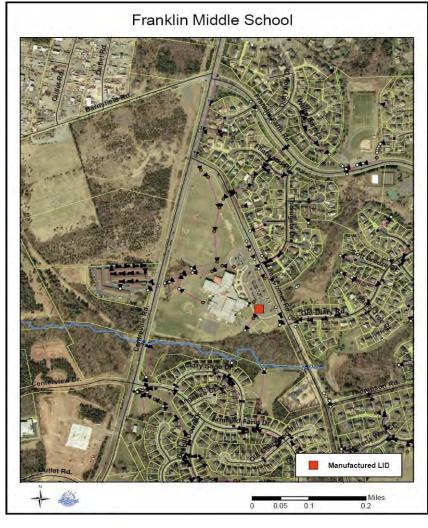
Project ID:	CU9824
Project Type:	LID Projects at Public Facility
Location:	Cub Run Recreation Center, Stonecroft Boulevard. Upper Cub Run watershed.
Description:	Implement LID project at Cub Run Recreation Center. Conceptual plan consists of three manufactured bioretention units at one location. Area served = 1.5 acres



The facility was constructed after the date of the aerial photography used for this project

Project Cost Estimate				
Item	Quantity	Unit	Unit Cost	Total Cost
Manufactured Bioretention Units	3			\$66,600
		Base	Construction Cost	\$66,600
			Mobilization (5%)	\$3,330
Subtotal 1			\$69,930	
Contingency (25%)			\$17,483	
Subtotal 2			\$87,413	
Engineering design, surveys, land acquisition, utility locations, and permits (45%)			\$39,336	
Total			\$126,749	
Estimated Project Cost			\$127,000	

Project ID:	CU9825
Project Type:	LID Projects at Public Facility
Location:	Franklin Middle School. Centreville Road and Lees Corner Road. Cain Branch Watershed.
Description:	Implement LID project at Franklin Middle School. Conceptual plan consists of one manufactured bioretention unit at one location. Area served = 0.6 acres



Project Cost Estimate					
Item	Item Quantity Unit Unit Cost				
Manufactured Bioretention Units	1			\$22,200	
		Base	Construction Cost	\$22,200	
			Mobilization (5%)	\$1,110	
Subtotal 1			\$23,310		
Contingency (25%)			\$5,828		
Subtotal 2			\$29,138		
Engineering design, surveys, land acquisition, utility locations, and permits (45%)			\$13,112		
Total			\$42,250		
Estimated Project Cost			\$43,000		

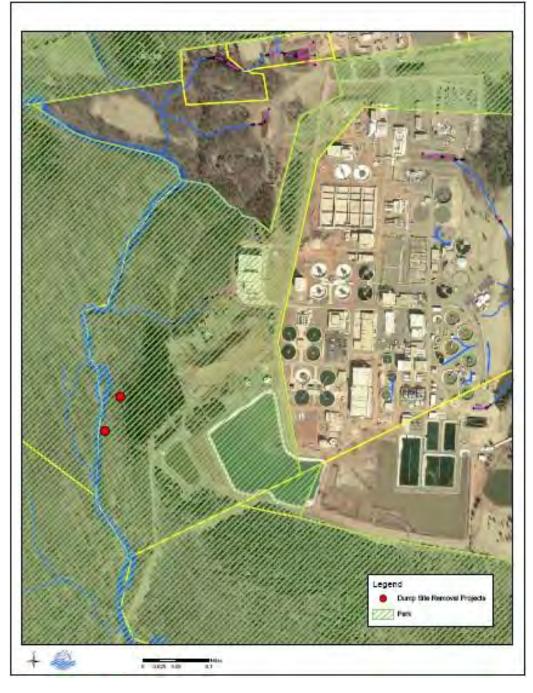
Fact Sheets

Projects CU9901 through CU9909

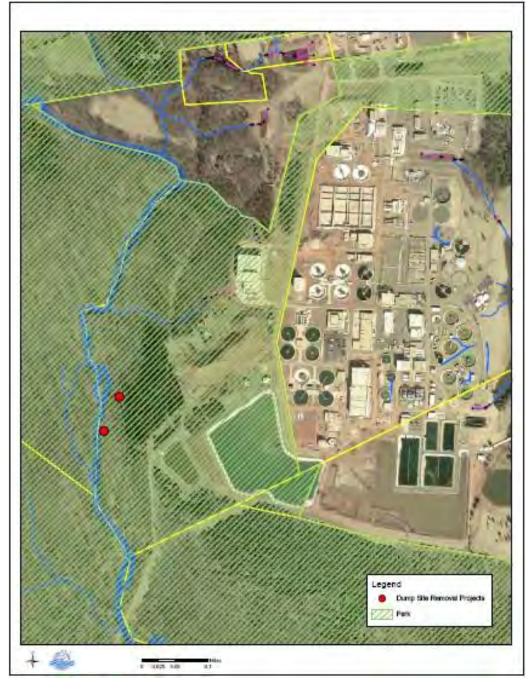
Cub Run Watershed Dump Site Removal Projects

Projects CU9901 through CU9909

Project ID:	CU9901
Project Type:	Dump Site Removal Project
Location:	Left bank flood plain, Lower Cub Run, Bull Run Regional Park near UOSA Advanced Wastewater Treatment Plant,
Description:	55-gallon drums (empty), above ground tank. Impact score of 5. (CUCU004.M001)
Estimated Project Cost:	\$5,000



Project ID:	CU9902
Project Type:	Dump Site Removal Project
Location:	Left Bank flood plain, Lower Cub Run, Bull Run Regional Park near UOSA Advanced Wastewater Treatment Plant.
Description:	Appliances, trash, tires and miscellaneous debris. Impact score of 10. (CUCU004.M002)
Estimated Project Cost:	\$5,000



Project ID:	CU9903
Project Type:	Dump Site Removal Project
Location:	Left Bank instream, Tributary to Lower Cub Run downstream from Compton Road and upstream from Cub Run
Description:	55-Gallon Drums (closed). Impact score of 8. (CUCU014.M001) -Private Property
Estimated Project Cost:	\$5,000



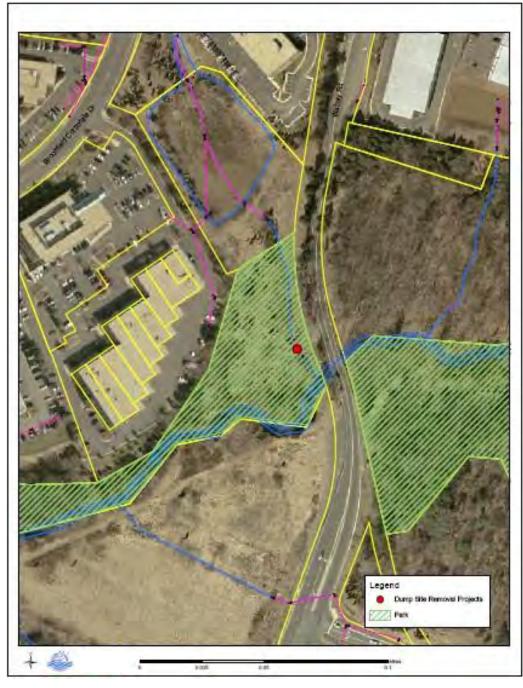
Project ID:	CU9904
Project Type:	Dump Site Removal Project
Location:	Left Bank flood plain, Big Rocky Run downstream from Braddock Road
Description:	55-Gallon Drums (closed). Impact score of 8. (CUCU014.M001) -Private Property
Estimated Project Cost:	\$5,000



Project ID:	CU9905
Project Type:	Dump Site Removal Project
Location:	Left bank flood plain, Big Rocky Run downstream from Route 50
Description:	Trash and car. Impact score of 5. (CUBR089.M001)
Estimated Project Cost:	\$5,000



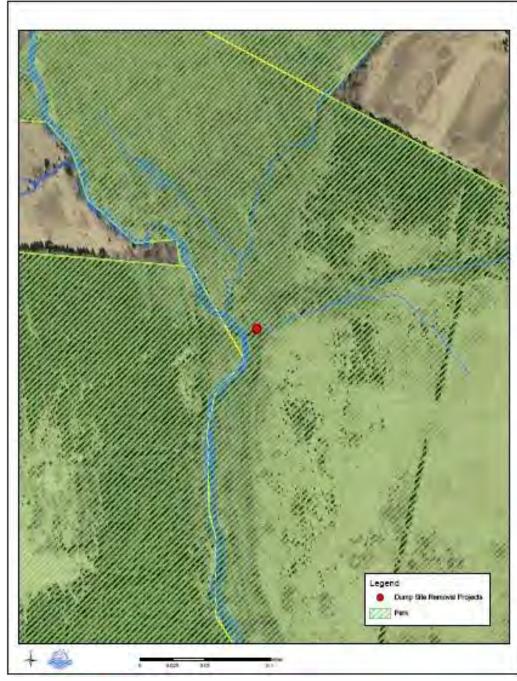
Project ID:	CU9906
Project Type:	Dump Site Removal Project
Location:	Both banks flood plain, Flatlick Branch at Walney Road
Description:	Construction Debris. Impact score of 4. (CUFL102.M001)
Estimated Project Cost:	\$5,000



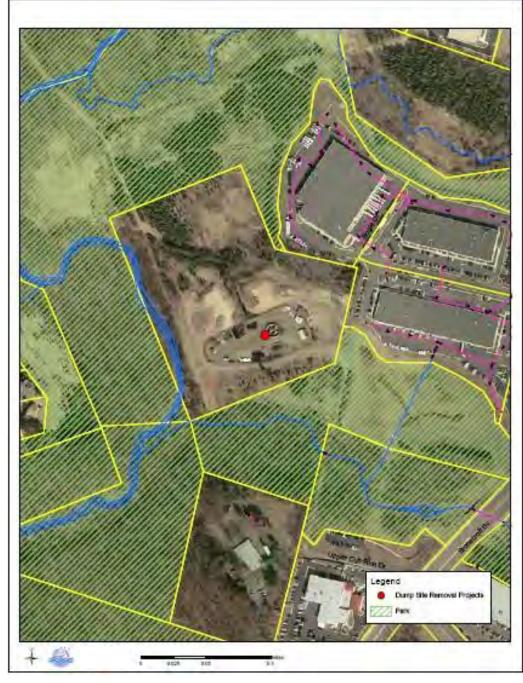
Project ID:	CU9907
Project Type:	Dump Site Removal Project
Location:	Both banks instream, Frog Branch near Stringfellow Road south of Stream Valley Drive.
Description:	Cast iron pipes in stream at utility crossing. Impact score of 4. (CUFR002.M002)
Estimated Project Cost:	\$5,000



Project ID:	CU9908
Project Type:	Dump Site Removal Project
Location:	Both banks instream. Elklick Run within FCPA Parkland. Downstream from Braddock Road
Description:	Appliances. Impact score of 3. (CUER009.M001)
Estimated Project Cost:	\$5,000



Project ID:	CU9909
Project Type:	Dump Site Removal Project
Location:	Left Bank, Cub Run and Schneider Branch off Stonecroft Boulevard.
Description:	Clean up existing debris and eliminate future dumping at the site of the old Upper Cub Run Wastewater Treatment Plant
Estimated Project Cost:	\$5,000



Fact Sheets

Projects CU9910 through CU9915

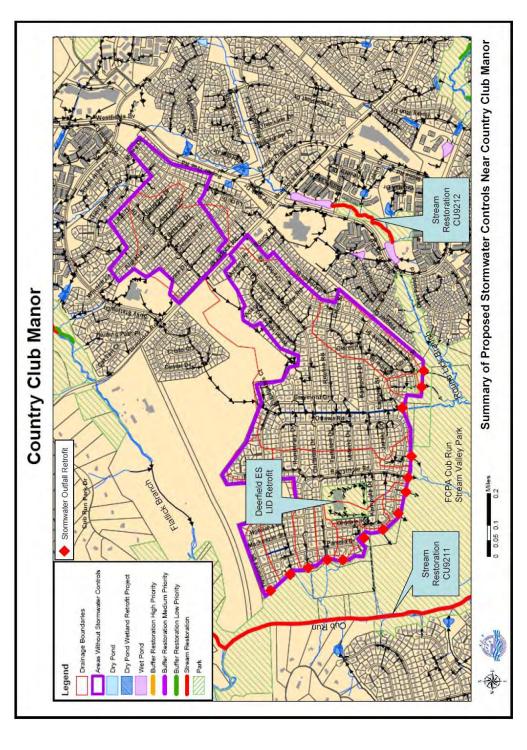
Cub Run Watershed Other Projects

Neighborhoods without Stormwater Controls Upland Drainage Improvement Projects Wetland and Riparian Restoration Projects

Projects CU9910 through CU9915

Project ID:	D: CU9910			
Project Type:	-	Neighborhoods Without Stormwater Controls		
Location:	Coun	try Club N	lanor	
Description:	proje struct this n	Implement stream outfall improvement projects, promote LID and perform other structural projects to control runoff from this neighborhood without stormwater controls.		berform other I runoff from
	Projec	t Cost Es	timate *	
Item	Qty	Units	Unit Cost	Total Cost
Public Outreach				\$46,400
Outfall Retrofit	14	Each	\$20,000	\$280,000
Base Construction Cost				\$326,400
Mobilization (5%)			\$16,320	
Subtotal 1			\$342,720	
Contingency (25%)			\$85,680	
Subtotal 2			\$428,400	
Engineering design, surveys, land \$192,7 acquisition, utility locations, and permits (45%)			\$192,780	
Total \$621,1			\$621,180	
Estimated Project Cost			\$622,000	

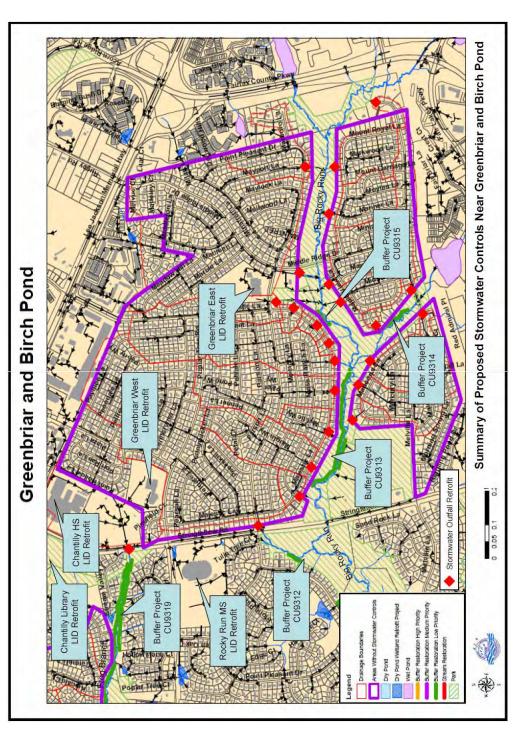
* - Cost for public outreach for LID and outfall retrofit projects. Costs for other structural projects are documented separately.



Project ID:	CU9911
Project Type:	Neighborhoods Without Stormwater Controls
Location:	Greenbriar and Birch Pond
Description:	Implement stream outfall improvement projects, promote LID and perform other structural projects to control runoff from this neighborhood without stormwater controls.

Project Cost Estimate *				
Item	Qty	Units	Unit Cost	Total Cost
Public Outreach				\$57,300
Outfall Retrofits	14	Each	\$20,000	\$280,000
	Bas	e Constru	uction Cost	\$337,300
Mobilization (5%)			\$16,865	
Subtotal 1			\$354,165	
Contingency (25%)			\$88,541	
Subtotal 2			\$442,706	
Engineering design, surveys, land \$199,2 acquisition, utility locations, and permits (45%)			\$199,218	
	Total \$641,92			\$641,924
Estimated Project Cost			\$642,000	

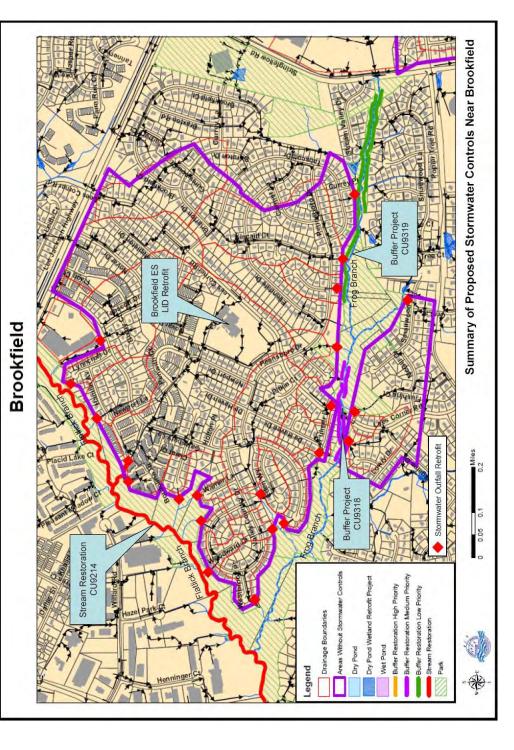
* - Cost for public outreach for LID and outfall retrofit projects. Costs for other structural projects are documented separately.



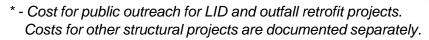
Project ID:	CU9912
Project Type:	Neighborhood Without Stormwater Controls
Location:	Brookfield
Description:	Implement stream outfall improvement projects, promote LID and perform other structural projects to control runoff from this neighborhood without stormwater controls.

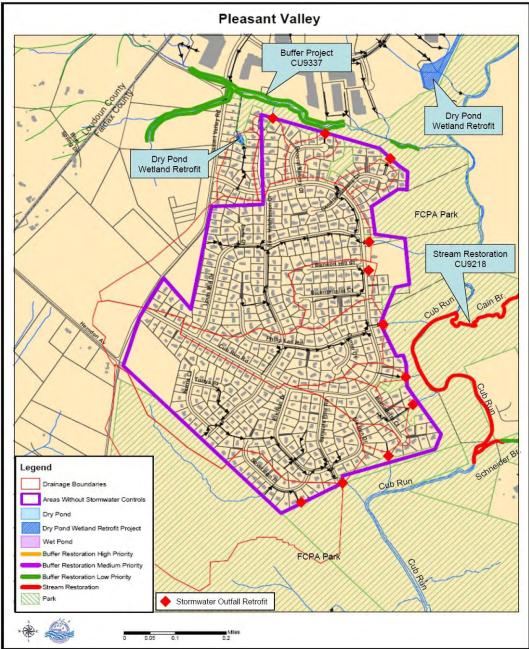
Project Cost Estimate *				
Item	Qty	Units	Unit Cost	Total Cost
Public Outreach				\$45,200
Outfall Retrofit	22	Each	\$20,000	\$440,000
	Bas	e Constru	uction Cost	\$485,200
Mobilization (5%)			\$24,260	
Subtotal 1			\$509,460	
Contingency (25%)			\$127,365	
Subtotal 2			\$636,825	
Engineering design, surveys, land \$286,57 acquisition, utility locations, and permits (45%)			\$286,571	
	Total \$923,39			\$923,396
Estimated Project Cost			\$924,000	

* - Cost for public outreach for LID and outfall retrofit projects. Costs for other structural projects are documented separately.



Project ID:	CU99	CU9913		
Project Type:		Neighborhoods Without Stormwater Controls		
Location:	Pleas	sant Valle	у	
Description:	proje struc this n	Implement stream outfall improvement projects, promote LID and perform other structural projects to control runoff from this neighborhood without stormwater controls.		
	Projec	t Cost Es	timate *	
Item	Qty	Units	Unit Cost	Total Cost
Public Outreach				\$39,600
Outfall Retrofit	11	Each	\$20,000	\$220,000
Base Construction Cost				\$259,600
Mobilization (5%) \$12,98			\$12,980	
Subtotal 1 \$272,5			\$272,580	
Contingency (25%) \$65,145			\$65,145	
Subtotal 2 \$340,7			\$340,725	
Engineering design, surveys, land \$153,326 acquisition, utility locations, and permits (45%)			\$153,326	
	Total \$494,057			\$494,051
Estimated Project Cost \$495,00			\$495,000	





Summary of Proposed Stormwater Controls Near Pleasant Valley

Project ID:	CU9914
Project Type:	Upland Drainage Retrofit Projects
Location:	Headwater areas of watershed focused on Cain Branch upstream from Route 28, Flatlick Branch upstream from Route 50, and Big Rocky Run upstream from Route 50.
Description:	General funds for currently unidentified stormwater improvement projects in upland areas to address flooding and stream erosion issues. Projects will be performed in combination with other projects or on an as- needed basis when projects are identified through the public outreach program.
Estimated Project Cost:	\$600,000 for each 5-year plan increment for a total cost of \$3,000,000

Project ID:	CU9915
Project Type:	Riparian Wetland Study
Location:	Throughout watershed
Description:	Perform study to identify riparian wetland areas and evaluate for restoration need and potential.
Estimated Project Cost:	\$100,000