

Catchment ID: UT02

UPPER PATUXENT RIVER WATERSHED RESTORATION ACTION STRATEGY (WRAS) FORM 1 -- Catchment Information

Subwatershed: <u>Unnamed Tributary</u>	
Location of Catchment Centroid on ADC Map	Year: <u>2000</u> Page: <u>17</u> Grid: <u>J8</u>
State Plane Coordinates of Outfall Location:	X: <u>1397847</u> Y: <u>482054</u>
Closest Road Intersection to Outfall: Priest Br	dge Drive and Espey Court
Outfall SDI ID or Outfall Description: Drains to	storm drain system that runs along Baldwin Avenue
Objective: Demonstration / Impairment(s) (Sh	eet 1)
Drainage Area (ac): 5.5	Impervious Area (ac): 4.6
Percent Impervious: 84%	Soil Recharge Factor (S): 0.38
WQ _v (required): 0.37	Re _v (required): 0.14
Predominant Land Use: commercial	Mean Depth to Ground Water: Unknown
Sanitary System: ☐ Septic ✓ Municipal Sewer	Water Supply: ☐ On Site Well ✓ Public Water
Storm Drainage System Within Catchmo	ent
Piped:Open Channels	: <u>0%</u>
Area Drained by System: 100%	
Location in Catchment: Headwaters Mid	dle Lower 🗸 All
Open Channel Lining- Vegetation: 09	6 Riprap: 0% Concrete: 0% Other: 0%
Existing IMP(s) / BMP(s)	
SDI ID: Type (number from S	neets 4 & 5): Age:
Closest Road Intersection to IMP / BMP:	
Catchment Area Treated (ac) :	Percentage Catchment Treated:
WQ_v Provided: \square_{YES} \square_{NO} Re_v Pro	vided: ☐YES ☐NO C _p Provided: ☐YES ☐NO
SDI ID: Type (number from S	neets 4 & 5): Age:
Closest Road Intersection to IMP / BMP:	
Catchment Area Treated (ac) :	Percentage Catchment Treated:
WQ_v Provided: \square_{YES} \square_{NO} Re_v Pro	vided: ☐YES ☐NO C _p Provided: ☐YES ☐NO
SDI ID: Type (number from S	neets 4 & 5): Age:
Closest Road Intersection to IMP / BMP:	
Catchment Area Treated (ac) :	Percentage Catchment Treated:
WQ_v Provided: \square YES \square NO Re_v Pro	vided: ☐YES ☐ NO C _p Provided: ☐YES ☐ NO

Catchment ID: UT02

UPPER PATUXENT RIVER WATERSHED RESTORATION ACTION STRATEGY (WRAS) FORM 1 -- Catchment Information (concluded)

CATCHMENT SUM	MARY		
WQ_v (provided):	0.119	Re _v (provided) :	0.119
Area Treated (ac):	3.02	Impervious Area Treated (ac):	2.49
Area Treated (%):	55%	Impervious Area Treated (%):	54%
Comments			

Site ID: 45 Catchment ID: UT02

UPPER PATUXENT RIVER WATERSHED RESTORATION ACTION STRATEGY (WRAS) FORM 2 -- Site Information

Site Name:	Address: 2128 Espey Court
Site Owner:	
State Plane Coordinates of Site Centroid:	X: <u>1397725</u> Y: <u>481895</u> Date: <u>5/13/03</u>
Personnel: PM	Weather: cloudy, 70F deg
Area (ac): 1.0	Impervious Area (ac): 0.6
Percent Impervious: 66%	Soil Recharge Factor (S): 0.38
WQ _v (required): 0.05	Re _v (required): 0.02
Property Area (ac): 1.0	Property Area Included in Site: 100%
Amount of Catchment Occupied by Site: _	18%
Storm Drainaga System Within Site	
Storm Drainage System Within Site Piped:100%	0% Area Drained by System: 100%
	Riprap:0% Concrete:0% Other:0%
Open Channel Linning - vegetation.	Triprap. Oncrete. Onc
Existing IMP(s) / BMP(s) (Indentified or	n Page 1, FORM 1, Catchment Information)
SDI ID:	Condition: Excellent Good Average Fair Poor
	Condition: ☐ Excellent ☐ Good ☐ Average ☐ Fair ☐ Poor
	Condition: Excellent Good Average Fair Poor
Site Information	
Type of Pavement: ✓ Bituminous Concre	
Pavement Condition:	☐ Good ☑ Average ☐ Fair ☐ Poor
Underdrains can be easily directed to existi	ng storm drains or daylighted: ☑ YES ☐ NO
Gutter/Exterior Downspouts Present:	YES NO
Roof Connected Directly to Storm Drain:	YES NO
Roof Drains onto Impervious Surface:	YES NO
Obvious Existing Drainage Problems:	☐ Extensive ☐ Moderate ☐ Average ☑ Limited ☐ None
Steep Slopes Present: Extensive	☐ Moderate ☐ Average ☐ Limited ☑ None
Existing Landscaping:	☐ Moderate ☑ Average ☐ Limited ☐ None
Mature / Specimen Trees: Extensive	☐ Moderate ☐ Average ☑ Limited ☐ None
Area Available for Aboveground BMPs:	☐ Extensive ☐ Moderate ☑ Average ☐ Limited ☐ None
Existing Cover of Potential Aboveground Bl	MP Locations:

Site ID: 45 Catchment ID: UT02

UPPER PATUXENT RIVER WATERSHED RESTORATION ACTION STRATEGY (WRAS) FORM 2 -- Site Information (concluded)

Com	mercial / Insti	tutional			
Island	ds Present: ☑ ʏ	ES NO	Curb Present Around Island:	✓YES NO	
Grou	Ground Level of Island Relative to Pavement: ☑ Above ☐ Equal ☐ Below				
Island	d Landscaping:	☐ Impervious ☐ Bare Earth☐ Trees (<2 in. DBH)	h Gravel Grass Mulch Herba Trees (2 - 6 in. DBH) Trees (>6 in. DBH)	aceous Plants Shrubs	
Trees	s have sufficient	spacing to allow IMPs	✓ YES NO		
Parki	ng area that car	n be directed to potential t	reatment area with little grading:	90%	
SITE	SUMMARY				
WQ_v	(provided):	0.044	Re _v (provided):	0.044	
Area	Treated (ac) :	0.97	Impervious Area Treated (ac): _	0.73	
Area	Treated (%):	96%	Impervious Area Treated (%):_	100%	
Dhat					
	ographs				
No.	789	Description: looking west along north side of site			
No.	790	Description: looking south along east side of site			
No.	791	Description: looking west along south side of site			
No.	792	Description: looking north along east side of site			
No.	793	Description: looking east along south side of site			
No.	794	Description: looking north along west side of site			
No.	795	Description: looking east along north side of site			
No.	796	Description: looking south along west side of site			
No.	lo Description:				
No.		Description:			
		<u> </u>	erty drains offsite (to site 46). Roof dowr	nspouts that	
aram	small portion of	metal roof drains onto im	pervious surface (landscaping).		

UPPER PATUXENT RIVER WATERSHED RESTORATION ACTION STRATEGY (WRAS) FORM 2 -- Site Information





789 790





791 792





UPPER PATUXENT RIVER WATERSHED RESTORATION ACTION STRATEGY (WRAS) FORM 2 -- Site Information (concluded)





	IMP / BMP ID: 1	Site ID:	45	Catchment ID: UT02	
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New LID IMP ✓ SWM BMP Retrofit ✓ New SWM BMP ✓ Type (Sheets 4 & 5): 7
State Plane Coordinates of IMP / BMP Centroid: X: 1397720 Y: 481893
Sketch Location of Footprint (with Approximate Dimensions) and Drainage Boundary on Site Map
Identify all Impairments Addressed by Recommendation (Sheet 1): 1, 4, 7, 16
Treatment Area Ownership: ☐ Transportation ROW ☐ Utility ROW ☐ County ☐ Other Government ☑ Private ☐ Other
Infrastructure / Structures / Buildings Impacted: ☐ YES ☑ NO
Limited Impact to Adjacent Properties: ☑ YES ☐ NO
Area Accessible for Construction: ☑ YES ☐ NO
Area Accessible for Maintenance: ☑ YES ☐ NO
Limited Permitting Issues: ✓ YES NO
Jurisdictional Wetlands Impacted: ☐ YES ☑ NO
Forest Retention Area Impacted: ☐ YES ☑ NO
Conservation Easement Impacted: ☐YES ☑NO
Utilities Present: ☑ None ☐ Natural Gas ☐ Electric ☐ Telephone ☐ Cable ☐ Water ☐ Sewer ☐ Other
Utilities Impacted: ☑ None ☐ Natural Gas ☐ Electric ☐ Telephone ☐ Cable ☐ Water ☐ Sewer ☐ Other
Impacted Utilities:
Critical Area Impacted: ☐ YES ☑ NO
Mature / Specimen Trees Impacted: ☐ YES ☑ NO
Existing Landscaping Impacted:
Underdrain Needed: ☐ YES ☑ NO Underdrains Can Discharge: ☐ YES ☐ NO
Soils are Suitable: YES NO Ground Water Table Level Suitable: YES NO
Estimate IMP / BMP drainage area included on site: 0.22 ac 100%
Retrofit of Existing SWM BMP
SDI ID: Add Forebay: DNO
Modify Outlet Stucture: ☐ YES ☐ NO Add Aquatic Bench: ☐ YES ☐ NO
Grade Bottom of Facility: ☐ YES ☐ NO Plant Native Vegetation: ☐ YES ☐ NO
Provide Additional Storage Volume: YES NO
Excavation / Raise the Embankment:

IMP / BMP ID: 1	Site ID:	45	Catchment ID: UT02

IMP / BMP SUMMARY		
WQ _v (provided): undetermin	ned	Re _v (provided): 0
Area Treated (ac): 0.22		Impervious Area Treated (ac): 0.22
Photographs		
No. <u>800</u>	Description:	looking at front (south side) of building
No	Description:	
Comments		
IMP size = 9,580 sq ft		

MP / BMP ID: 1	Site ID:	45 hment ID: UT02



IMP / BMP ID: 2	Site ID:	45	Catchment ID: UT02

New LID IMP ■ SWM BMP Retrofit ■ New SWM BMP □ Type (Sheets 4 & 5): 60
State Plane Coordinates of IMP / BMP Centroid: X: 1397633 Y: 481893
Sketch Location of Footprint (with Approximate Dimensions) and Drainage Boundary on Site Map
Identify all Impairments Addressed by Recommendation (Sheet 1): 1, 3, 7, 16
Treatment Area Ownership: ☐ Transportation ROW ☐ Utility ROW ☐ County ☐ Other Government ☑ Private ☐ Other
Infrastructure / Structures / Buildings Impacted: ☐ YES ☑ NO
Limited Impact to Adjacent Properties: ☑ YES ☐ NO
Area Accessible for Construction: ☑ YES ☐ NO
Area Accessible for Maintenance: ☑ YES ☐ NO
Limited Permitting Issues: ☑ YES ☐ NO
Jurisdictional Wetlands Impacted: ☐YES ☑NO
Forest Retention Area Impacted: TYES NO
Conservation Easement Impacted: TYES NO
Utilities Present: ✓ None ☐ Natural Gas ☐ Electric ☐ Telephone ☐ Cable ☐ Water ☐ Sewer ☐ Other
Utilities Impacted: ☑ None ☐ Natural Gas ☐ Electric ☐ Telephone ☐ Cable ☐ Water ☐ Sewer ☐ Other
Impacted Utilities:
Critical Area Impacted: YES NO
Mature / Specimen Trees Impacted: ☐ YES ☑ NO
Existing Landscaping Impacted: TYES NO
Underdrain Needed: ☐ YES ☑ NO Underdrains Can Discharge: ☐ YES ☐ NO
Soils are Suitable: ☑ YES ☐ NO Ground Water Table Level Suitable: ☑ YES ☐ NO
Estimate IMP / BMP drainage area included on site: 0.03 ac 100%
Retrofit of Existing SWM BMP
SDI ID: Add Forebay:NO
Modify Outlet Stucture: ☐ YES ☐ NO Add Aquatic Bench: ☐ YES ☐ NO
Grade Bottom of Facility: ☐ YES ☐ NO Plant Native Vegetation: ☐ YES ☐ NO
Provide Additional Storage Volume: TYES NO
Excavation / Raise the Embankment:

IMP / BMP ID: 2	Site ID:	45	Catchment ID: UT02

IMP / BMP SUMMARY		
WQ _v (provided): 0.003		Re _v (provided): 0.003
Area Treated (ac): 0.03		Impervious Area Treated (ac): 0.03
Photographs		
No. <u>801</u>	Description:	looking north
No	Description:	
No	Description:	
No.	Description:	
Comments		
IMP size = 1,300 sq ft		



801

IMP / BMP ID: 3	Site ID:	45	Catchment ID: UT02

New LID IMP ✓ SWM BMP Retrofit ✓ New SWM BMP ✓ Type (Sheets 4 & 5): 38				
State Plane Coordinates of IMP / BMP Centroid: X: 1397620 Y: 481931				
Sketch Location of Footprint (with Approximate Dimensions) and Drainage Boundary on Site Map				
Identify all Impairments Addressed by Recommendation (Sheet 1): 1, 2, 3, 4, 7, 16				
Treatment Area Ownership: Transportation ROW Utility ROW County Other Government Private				
Infrastructure / Structures / Buildings Impacted: ☐ YES ☑ NO				
Limited Impact to Adjacent Properties: ☑ YES ☐ NO				
Area Accessible for Construction: ☑ YES ☐ NO				
Area Accessible for Maintenance: VYES NO				
Limited Permitting Issues: ☑ YES ☐ NO				
Jurisdictional Wetlands Impacted: ☐ YES ☑ NO				
Forest Retention Area Impacted: TYES NO				
Conservation Easement Impacted: TYES NO				
Utilities Present: ☐ None ☐ Natural Gas ☑ Electric ☐ Telephone ☐ Cable ☐ Water ☐ Sewer ☐ Other				
Utilities Impacted: ☐ None ☐ Natural Gas ☑ Electric ☐ Telephone ☐ Cable ☐ Water ☐ Sewer ☐ Other				
Impacted Utilities: Above Gound				
Critical Area Impacted: YES NO				
Mature / Specimen Trees Impacted: ☑ YES ☐ NO				
Existing Landscaping Impacted: VES NO				
Underdrain Needed: ☐ YES ☑ NO Underdrains Can Discharge: ☐ YES ☐ NO				
Soils are Suitable: ☑ YES ☐ NO Ground Water Table Level Suitable: ☑ YES ☐ NO				
Estimate IMP / BMP drainage area included on site: 0.59 ac 90%				
Retrofit of Existing SWM BMP				
SDI ID: Add Forebay: DI NO				
Modify Outlet Stucture: ☐ YES ☐ NO Add Aquatic Bench: ☐ YES ☐ NO				
Grade Bottom of Facility: ☐ YES ☐ NO Plant Native Vegetation: ☐ YES ☐ NO				
Provide Additional Storage Volume: YES NO				
Excavation / Raise the Embankment:				

IMP / BMP ID: 3	Site ID:	45	Catchment ID: UT02

IMP/BN	IP SUMI	MARY		
WQ _v (pro	vided):	0.032		Re _v (provided): 0.032
Area Trea	ated (ac):	0.59		Impervious Area Treated (ac): 0.39
Photogr	anhs			
No.	802		Description:	looking north
No.	803		Description:	looking west
No.	804		Description:	looking south
No.	805		Description:	looking east
No.			Description:	
Comme	nts	This IMP may im	pact parking and	d access to west side of building, although access
to buildin	g does no	ot appear to be re	quired. The inlet	may need to be raised to direct flow to grassed area
to the we	st. An ex	sisting light fixture	(abandoned) wil	I need to be removed or relocated.
IMP size	= 2,766 s	sq ft		





802 803





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New LID IMP ■ SWM BMP Retrofit ■ New SWM BMP ■ Type (Sheets 4 & 5): 50
State Plane Coordinates of IMP / BMP Centroid: X: 1397754 Y: 481817
Sketch Location of Footprint (with Approximate Dimensions) and Drainage Boundary on Site Map
Identify all Impairments Addressed by Recommendation (Sheet 1): 1, 2, 3, 4, 7, 16
Treatment Area Ownership: ☐ Transportation ROW ☐ Utility ROW ☐ County ☐ Other Government ☐ Private ☐ Other ☐
Infrastructure / Structures / Buildings Impacted: ☐ YES ☑ NO
Limited Impact to Adjacent Properties: ☑ YES ☐ NO
Area Accessible for Construction: ✓ YES NO
Area Accessible for Maintenance: ☑ YES ☐ NO
Limited Permitting Issues: ☑ YES ☐ NO
Jurisdictional Wetlands Impacted: ☐ YES ☑ NO
Forest Retention Area Impacted: TYES NO
Conservation Easement Impacted: TYES NO
Utilities Present: ☐ None ☐ Natural Gas ☑ Electric ☑ Telephone ☐ Cable ☑ Water ☐ Sewer ☐ Other
Utilities Impacted: ☐ None ☐ Natural Gas ☑ Electric ☑ Telephone ☐ Cable ☐ Water ☐ Sewer ☐ Other
Impacted Utilities: Above Gound Underground
Critical Area Impacted: YES NO
Mature / Specimen Trees Impacted: ☐ YES ☑ NO
Existing Landscaping Impacted: YES NO
Underdrain Needed: ☐ YES ☑ NO Underdrains Can Discharge: ☐ YES ☐ NO
Soils are Suitable: ☑ YES ☐ NO Ground Water Table Level Suitable: ☑ YES ☐ NO
Estimate IMP / BMP drainage area included on site: 0.23 ac 81%
Retrofit of Existing SWM BMP
SDI ID: Add Forebay:NO
Modify Outlet Stucture: ☐ YES ☐ NO Add Aquatic Bench: ☐ YES ☐ NO
Grade Bottom of Facility: ☐ YES ☐ NO Plant Native Vegetation: ☐ YES ☐ NO
Provide Additional Storage Volume: YES NO
Excavation / Raise the Embankment:

	IMP / BMP ID: 4	Site ID:	45	Catchment ID: UT02	
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IMP / BMP SUMMARY		
WQ _v (provided): 0.009		Re _v (provided): 0.009
Area Treated (ac): 0.13		Impervious Area Treated (ac): 0.09
Photographs		
No. <u>797</u>	Description:	looking west at upstream end
No. <u>798</u>	Description:	looking east at downstream end
No	Description:	
Comments Parking are	ea will need to be dive	rted using "speed bump" or trench drain. Existing trees
		icted between the road and the sidewalk.
IMP treats 48% of drainage are	ea as sized.	
IMP size = 623 sq ft		

IMP / BMP ID: 4

Site ID: 45 hment ID: UT02

UPPER PATUXENT RIVER WATERSHED RESTORATION ACTION STRATEGY (WRAS) FORM 3 -- Opportunities and Constraints of Potential Management Practice



