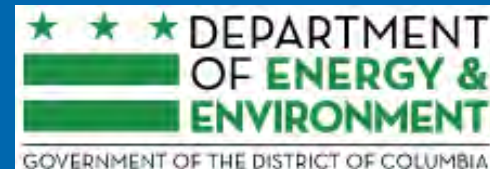
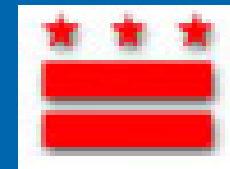
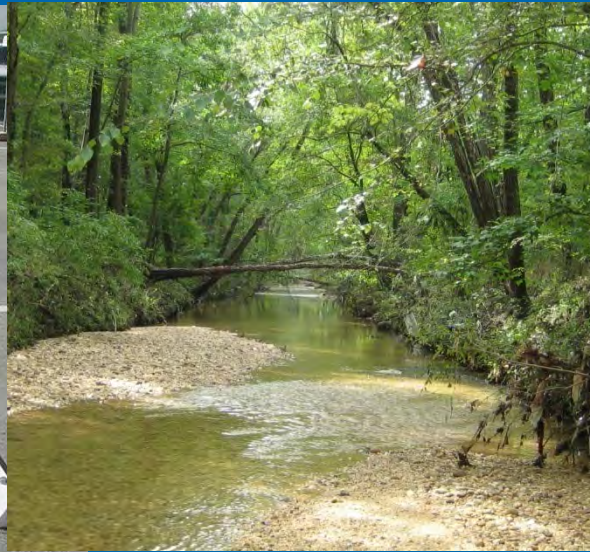


# Using DOEE's Surface and Groundwater System for Permit Review

Regan Wilhelm

Department of Energy and Environment



# Training Objectives

- Become familiar with the Surface and Groundwater System
- Understand how the Surface and Groundwater System supports DOEE plan review
- Be able to enter, modify, and submit stormwater



# Training Outline

- Overview of DC Stormwater Programs and Surface and Groundwater System
- Using the Surface and Groundwater System to submit plan information



# About the Surface and Groundwater System

- Allows web-based entry and review of project data
- Incorporates and enhances existing compliance calculations
- Allows project team to access data during design, review, construction, and inspection
- Streamlines review of stormwater plans
- Generates green infrastructure reports for DOEE





# About the Surface and Groundwater System

- Integrates with the SRC and RiverSmart Rewards programs to streamline applications
  - Certify SRCs
  - Transfer SRCs
  - Use SRCs
  - Retire SRCs
  - Notification of in-lieu fee payment
  - RiverSmart Rewards applications
- Enables online submission of compliance information for an Off-site retention volume (Offv)
- Provides Access to the SRC Registry

# Requirements of the District's Stormwater Management Regulations

# Stormwater Rule

## Major land-disturbing activity

- 5,000 ft<sup>2</sup> or more of land-disturbing activity, AND
  - 2,500 ft<sup>2</sup> or more of post-project land cover is impervious, OR
  - Some of the pre-project land cover is natural
- Retain the first 1.2" of rainfall on site or through a combination of on-site and off-site retention

## Major substantial improvement activity

- Renovation for which:
  - Cost exceeds 50% pre-project value of structure and
  - Combined footprint of structure and land disturb  $\geq 5,000$  ft<sup>2</sup>
- AND:
  - 2,500 ft<sup>2</sup> or more of post-project land cover is impervious, OR
  - Some of the pre-project land cover is natural
- Retain the first 0.8" of rainfall on site or through a combination of on-site and off-site retention

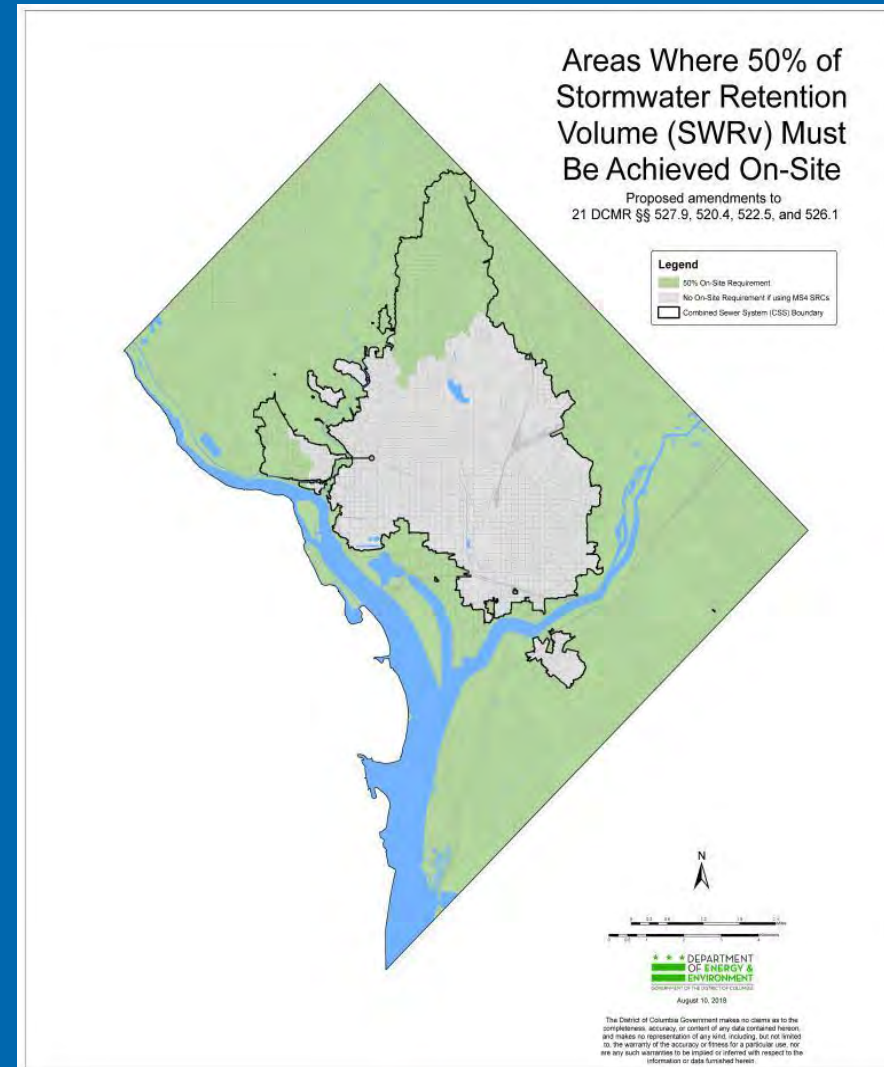
# Allowable Use of Off-Site Retention

For sites located in the MS4 or in portion of CSS where CSOs will be reduced with GI: On-site retention  $\geq 50\%$  of Stormwater Retention Volume (SWRv).

- Free to go off site
- Less than 50%: must prove that on-site retention is technically infeasible or environmentally harmful

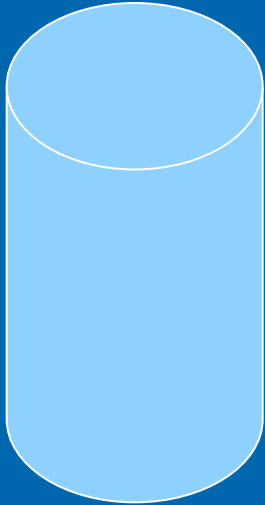
No minimum on-site requirement for projects:

- Located in portion of CSS where CSOs will be reduced with storage tunnels.
- Using MS4 SRCs to meet Off-site retention

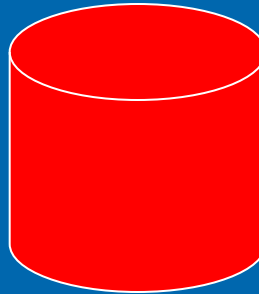


# Off-Site Retention Volume (Offv)

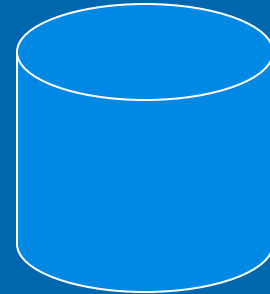
$$\text{SWRv} - \text{On-Site Retention Volume} = \text{Offv}$$



10,000  
gallons



5,000  
gallons



5,000  
gallons



# Two Options to Achieve Offv

In-lieu fee (ILF) payment = \$3.78

- Paid to DOEE.
- Corresponds to 1 gallon of retention for 1 year.
- Achieves 1 gallon of Offv for 1 year.

## Stormwater Retention Credits (SRCs)

- Privately tradable.
- 1 SRC corresponds to 1 gallon of retention for 1 year.
- 1 SRC achieves 1 gallon of Offv for 1 year.
- Each SRC has a unique serial number.

# Which SRCs Can a Site Use?

Regulated Site Location	On-Site Retention	Allowable Use of SRCs
AWDZ sites (relief required)		SRCs from MS4 (1.25 ratio for non-Anacostia)
MS4	≥50%	SRCs from MS4
	<50% (relief required)	SRCs from MS4
CSS areas where CSOs are reduced with GI	≥50%	Any SRC
	<50% (relief required)	<ul style="list-style-type: none"> <li>• SRCs from MS4</li> <li>• SRCs from CSS areas where CSOs are reduced with GI</li> </ul>
CSS areas where CSOs are reduced with storage tunnels	≥50%	Any SRC
	<50% (relief N/A)	SRCs from MS4

These requirements are waived if:

- The site is already approved and the owner self-generates SRCs from an already-approved project, or
- The SRCs are purchased according to a contract that has already been signed

Projects must be approved and contracts must be signed by April 30, 2020.

# Using the Surface and Groundwater System

# Create a Surface and Groundwater System Account

- Visit the SGS landing page at [doee.dc.gov/sgs](http://doee.dc.gov/sgs)
- Request an account (DOEE will approve request)
- Create log in credentials
- DOEE communications may be sent from [notify@quickbase.com](mailto:notify@quickbase.com)



# STORMWATER DATABASE

Welcome

Log In

Username/Email

Password

Log In

Need an account? Click [here](#) to register.

Need help? Click [here](#) for assistance.

Click [here](#) to view the SRC and Offv Registry.



## Register

To use DDOE's Stormwater Database, please fill out the form below. After you submit your information, DDOE will approve your account and notify you via email with login instructions. Please ensure that you enter the correct email address.

You will receive a confirmation email from notify@quickbase.com. If you do not receive login credentials within the next business day, please contact Matthew Espie at matthew.espie@dc.gov or (202)-715-7644.

☐ Account is for business or organization

First Name \*

Last Name \*

Email \*

Phone \*

 ext. 

Title

Organization

☐ Include organization name in address

Address line 1 \*

Address line 2

City \*

State \*

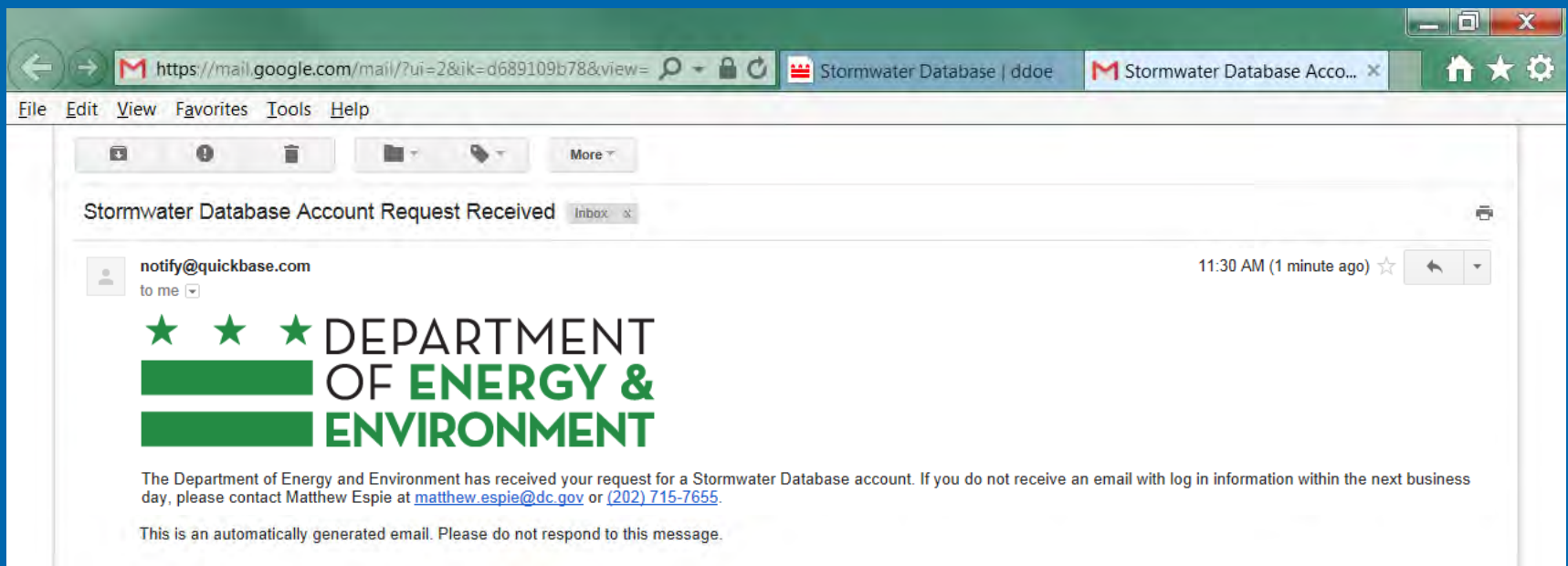
 ▼

Zip code \*

Submit

Already registered? Click [here](#) to log in.

Need help? Click [here](#) for assistance.





## Matthew Espie invites you to join Stormwater Database

Thank you for requesting access to the Department of Energy & Environment's Stormwater Database. Use the link at the bottom of this message to create your user ID and password. Once you complete your registration, you can return to the database at <http://doee.dc.gov/swdb>.

Do not share your username and password with others. These credentials allow you to submit plans to DOEE for review, to apply for certification of SRCs, to sign forms electronically, to authorize someone to act on your behalf, and take other actions. Your actions in the database could carry legal obligations for you including to maintain stormwater Best Management Practices (BMPs).

From the home screen, you can select different options:

- To submit a Stormwater Management Plan, Erosion and Sediment Control plan, or Green Area Ratio plan for review, start by clicking "Sites and plans" and "New Site."
- To confirm someone as your agent, click "Agents" and then click "Confirm" next to your agent's name.
- To view the SRC Registry, click "SRC Registry." To view the SRCs that you own, click "My SRC Dashboard."
- To apply to certify, transfer, use, or retire SRCs, click the application type and then click "New Application." To notify DOEE of an in-lieu fee payment, click "ILF Notification" and "New Notification."
- To apply for RiverSmart Rewards, click "My RiverSmart Rewards Dashboard" and "New Application."

You can also download the user manual for assistance or contact me at [matthew.espie@dc.gov](mailto:matthew.espie@dc.gov) or (202) 715-7644.

This is an automatically generated email. Please do not respond to this message.

[GO TO THIS APP IN QUICKBASE](#)

octo

## Sign Up for QuickBase

All fields marked with an asterisk (\*) are required.

First name\*

Last name\*

Email address

Choose a password\*

Retype password\*

Password strength:

✓ Must be at least 8 characters

✓ Must include both numbers and letters

Please set up a security question in case you ever need to reset your password.

Question:\*

Answer:\*

Retype Answer:\*

✓ Security answers must match

Your answer is not case sensitive.

☐ I have read and agree to the QuickBase [Terms of Service](#)

Register





# STORMWATER DATABASE

Welcome

[Log In](#)

Username/Email

Password

Log In

Need an account? Click [here](#) to register.

Need help? Click [here](#) for assistance.

Click [here](#) to view the SRC and Offv Registry.



# Stormwater Management Plans

# Enter Plan Information

- Site Information
- Plan Information
- Site Drainage Area Information
- BMP Information
- Submit





# STORMWATER DATABASE

Welcome, Project

[Log Out](#)

[Program Directory](#)

[Support](#)

## Public User Homepage

[Sites and Plans](#)

[BMPs](#)

[Agents](#)

[SRC and Offv Registry](#)

[My SRCs and Offv](#)

[My RiverSmart Rewards](#)



[Use the old Stormwater Database design](#)



# STORMWATER DATABASE

Welcome, Project

[Log Out](#)

[Homepage](#)

[Program Directory](#)

[Support](#)

## Sites and Plans

New Site

Notify DDOE of a Change in  
Site Ownership or  
Management

- My Sites (1)

No Records Found

- All Plans (1)

No Records Found

- Upcoming Offv Requirements (0)

No Records Found



# STORMWATER DATABASE

Welcome Jane

[Log Out](#)

[Navigation](#) [Program Directory](#) [Support](#) [Instructions](#)

Save

## Project Information

This page will help you determine which of DOEE's stormwater reviews are required for your project.

Which of the following best describes the project? \*

How many square feet will be disturbed on the parcel(s)? \*







# STORMWATER DATABASE

Welcome Jane

[Log Out](#)

[Navigation](#) [Program Directory](#) [Support](#) [Instructions](#)

Save

## Project Information

This page will help you determine which of DOE's stormwater reviews are required for your project.

Which of the following best describes the project? \*

Parcel-based project with no disturbance in the right-of-way

Input Address

1200 1ST STREET NE

[Populate Data from Address](#)

How many square feet will be disturbed on the parcel(s)? \*

6000

Does the project involve repair, alteration, addition, or improvement of a building or structure? \*

No

Is the project conducted solely to generate Stormwater Retention Credits (SRCs) or receive a RiverSmart Rewards discount? \*

No

What percent of the proposed conditions will be impervious?

90

%

Storm Sewer System \*

CSS

[Find Storm Sewer System](#)

Is the project located within the boundaries of the AWDZ? \*

No

[Map of AWDZ](#)

Zone District \*

D-5

[Find Zone](#)

## Estimated Requirements

NOTE: You have not yet submitted your project for review.

This page provides an estimate of which reviews will be required for your project. The estimate is based on the accuracy of the project information you have provided and is not an official determination. Actual review requirements and fees may vary if additional project information is provided. You may review this page to receive an estimate of your project requirements, or you may begin entering the project now. If DDOE has existing records for this address, you will need to request access to these records.

Initial fees are due upon filing a building permit application. Final review fees are due upon plan approval.

Full Report	More	4 Addresses	
Street Address	How to gain access to this site		Request Access to this Site
1200 1ST STREET NE	Click "Request Access to Site" in order to gain access to the site.		Request Access to this Site
1200 1ST STREET NE	Click "Request Access to Site" in order to gain access to the site.		Request Access to this Site
1200 1ST STREET NE	Click "Request Access to Site" in order to gain access to the site.		Request Access to this Site
1200 1ST STREET NE	You must request to be an agent for the site owner or manager. This person already has a Stormwater Database account associated with this address. Click "Request Access to Site" and complete the form. After the site owner or manager approves your request, you will be able to enter your project. If you have questions about this process, contact Matthew Espie at <a href="mailto:matthew.espie@dc.gov">matthew.espie@dc.gov</a> or (202) 715-7644.		Request Access to this Site

### Stormwater Management - [Learn More](#)

Is the plan a Stormwater Management Plan?

Yes

SWMP Initial Fee Payment

\$3406.47

Type of Activity and Requirements

- This is a Major Land Disturbing Activity with a Stormwater Retention Volume (SWRV) based on a 1.2-inch-storm.
- The site may also be responsible for providing additional detention volume.

Estimated SWRV (cubic feet)

528

### Soil Erosion and Sediment Control - [Learn More](#)

Is the plan a Soil Erosion and Sediment Control plan?

Yes

ESC Initial Fee Payment

\$1104.52

### Green Area Ratio - [Learn More](#)

## Estimated Requirements

NOTE: You have not yet submitted your project for review.

This page provides an estimate of which reviews will be required for your project. The estimate is based on the accuracy of the project information you have provided and is not an official determination. Actual review requirements and fees may vary if additional project information is provided. You may review this page to receive an estimate of your project requirements, or you may begin entering the project now. If DOEE has existing records for this address, you will need to request access to these records.

Initial fees are due upon filing a building permit application. Final review fees are due upon plan approval.

[Begin entering this project](#)

### Stormwater Management - [Learn More](#)

Is the plan a Stormwater Management Plan?

Yes

SWMP Initial Fee Payment

\$3406.47

Type of Activity and Requirements

- This is a Major Land Disturbing Activity with a Stormwater Retention Volume (SWRv) based on a 1.2-inch-storm.
- The site may also be responsible for providing additional detention volume.
- This site drains to the Municipal Separate Storm Sewer System (MS4) and will have minimum requirements for each Site Drainage Area (SDA)
  - Retain or treat at least 50% of the SWRv
  - Retain or treat at least 50% of the SWRv from the entire vehicular access area

Estimated SWRv (cubic feet)

528

### Soil Erosion and Sediment Control - [Learn More](#)

Is the plan a Soil Erosion and Sediment Control plan?

Yes

ESC Initial Fee Payment

\$1104.52

### Green Area Ratio - [Learn More](#)





# STORMWATER DATABASE

Welcome, Project

[Log Out](#)

Navigation Program Directory Support

Save

**You are entering a new site into the Stormwater Database. Please follow these steps:**

1. If the site does not have a street address, please change the "Address Format" to Block, Intersection, or Nearest Address. Then, skip to step 3.
2. If the site has a street address, enter the address into the field "Input Address" and then click "Get Address Details." Wait 10 seconds to allow the Stormwater Database to check the Master Address Repository for site information and fill out the form.
3. If the site is a block or intersection, or if the MAR could not find the site, complete the rest of the information in the "Site Information" section of the form.
4. Select the site owner or manager from the dropdown menu. If you do not see the name of the owner or manager, leave this blank. You must request to be an agent for the site owner or manager prior to submitting the plan for review.
5. Complete the "Location" section of the form with any known information. You may use the buttons in the "Location" section to look up SSL, sewershed, watershed, etc.
6. Click "Save"

[View printer-friendly version](#)

## SITE INFORMATION

For sites undergoing a regulated activity, enter the address on the building permit application.

Address Format \*

Address

Input Address

1200 First Stree NE

Get Address Details

Address number \*

Street name \*

Street type \*

Quadrant \*

X Find: Previous Next Options

For sites undergoing a regulated activity, enter the address on the building permit application.

Address Format \*

Address

Input Address

1200 First Stree NE

Get Address Details

Address number \*

1200

Street name \*

1ST

Street type \*

Street

Quadrant \*

NE

## SITE OWNER

Site Owner/Manager

Make a Selection...

## LOCATION

Find Storm Sewer System

Find coordinates, square, suffix, and lot

Find Major and Minor Drainage Areas

Find assessed value

Find zone

Find Soil Type

Flood Zone Determination Tool

X coordinate

399448.73

Y coordinate

137581.05

Storm sewer system \*

CSS

Major drainage area \*

Anacostia

Minor drainage area \*

-Not Known-

Ward

6

Soil type

Ub

Assessed building value

158739100

Square

0672

Suffix

Lot

0856

Zone \*

C-3-C

Is the site within a Special Flood Hazard Area (SFHA)? \*

No

## Locate Your Watershed:

This web page provides an overview of watershed for given locations in the District of Columbia.

Locate information related to an address by using one of two location types shown below:

 Find It!

### Location Types



Street

Address

**STREET ADDRESS:** An address consists of a street number, a street name, and a quadrant (NE, NW, SE, SW). The address number and street name are required. Every address in the MAR as also been assigned an AID# (Address Identification Number) which can be used to retrieve additional data about that address.

Example: 441 4th ST NW



Place

**PLACE NAME:** A place name consists of common place names and public/institutional building names.

Example: "The White House" or "Dupont Circle" or "The Capitol"



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Webcasts



RSS



Data



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# STORMWATER DATABASE

Welcome, Project

[Log Out](#)

Navigation

Program Directory

Support

Save

**You are entering a new site into the Stormwater Database. Please follow these steps:**

1. If the site does not have a street address, please change the "Address Format" to Block, Intersection, or Nearest Address. Then, skip to step 3.
2. If the site has a street address, enter the address into the field "Input Address" and then click "Get Address Details." Wait 10 seconds to allow the Stormwater Database to check the Master Address Repository for site information and fill out the form.
3. If the site is a block or intersection, or if the MAR could not find the site, complete the rest of the information in the "Site Information" section of the form.
4. Select the site owner or manager from the dropdown menu. If you do not see the name of the owner or manager, leave this blank. You must request to be an agent for the site owner or manager prior to submitting the plan for review.
5. Complete the "Location" section of the form with any known information. You may use the buttons in the "Location" section to look up SSL, sewershed, watershed, etc.
6. Click "Save"

[View printer-friendly version](#)

## SITE INFORMATION

For sites undergoing a regulated activity, enter the address on the building permit application.

Address Format \*

Address

Input Address

1200 First Stree NE

[Get Address Details](#)

Address number \*

1200

Street name \*

1ST

Street type \*

Street

Quadrant \*

NE



# STORMWATER DATABASE

Welcome, Project

[Log Out](#)

Navigation Program Directory Support

[Edit This Record](#)

[View printer-friendly version](#)

## SITE INFORMATION

☐ Soil Erosion and Sediment Control and/or GAR only

Address Format

Address

Address number	Street name	Street type	Quadrant
1200	1ST	Street	NE

## SITE OWNER

Site Owner/Manager

## PLANS AFFILIATED WITH THIS SITE

[Enter a new plan for this site](#)

Plan number	Site SWRv (gal)	Offv	SRC eligibility
-------------	-----------------	------	-----------------

No plans found

Save

[Return](#)

## PLAN TYPE AND EXEMPTIONS

Transition period vesting date \*

07-15-2015 or later

Is the plan a Stormwater Management Plan? \*

Yes

Is the plan a Soil Erosion and Sediment Control Plan? \*

Yes

Is the plan a Green Area Ratio plan? \*

Yes

☐ Project solely involves reconstruction of existing PROW

SWMP number

What type of activity is Site undergoing? \*

Major Land Disturbing

Is Site an "AWDZ site?" \*

Non-AWDZ

[Map of AWDZ](#)

Are there trees that are at least 55 inches in circumference?

Does the plan have an EISF Requirement

Request exceptions:

☐ Relief from extraordinarily difficult site conditions

☐ Exception to 25-foot buffer

Is the site exempt from detention requirements for the 2-year storm

No

## SITE AND LOCATION

Site \*

1200 1ST Street NE

Is the entire site in the CSS? \*

Yes

Major drainage area \*

Anacostia

Minor Drainage Area \*

-Not Known-

## PROJECT DESCRIPTION

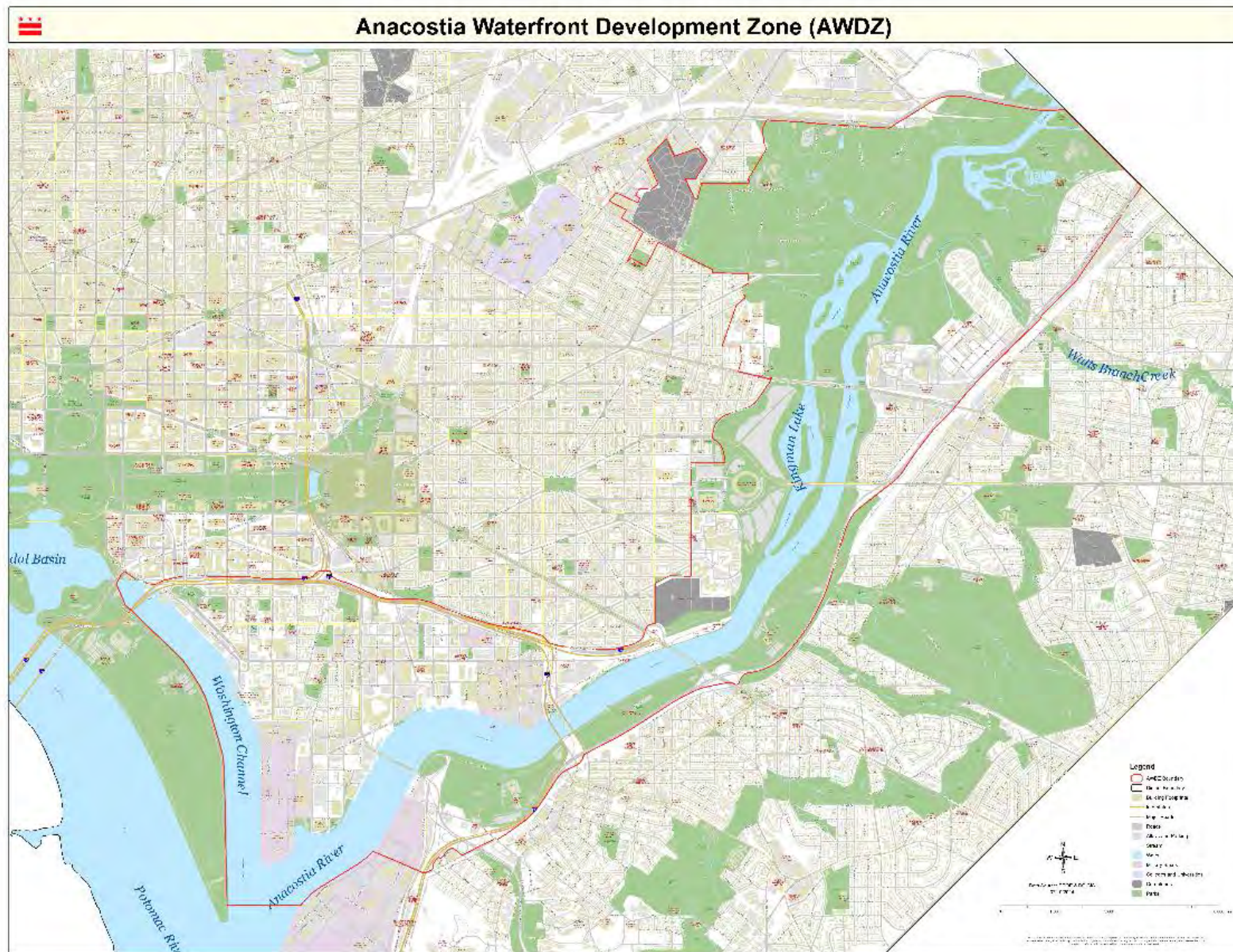
Project Name

Property Class

Default values based on site and date

Default values based on site





Request exceptions:

☐ Relief from extraordinarily difficult site conditions ☐ Exception to 25-foot buffer

Is the site exempt from detention requirements for the 2-year storm

No

SITE AND LOCATION

Site \*

1200 1ST Street NE

Is the entire site in the CSS? \*

Yes

Major drainage area \*

Anacostia

Minor Drainage Area \*

-Not Known-

PROJECT DESCRIPTION

Project Name

Text Project

Property Class

Commercial

Total cost of construction

1000000

Cost of building renovation

20000

Submission Type

ProjectDox

Project Description

This is an example project

Is this a PUD project

No

GREEN AREA RATIO

Zone

C-3-C

Required GAR Score

0.2





# STORMWATER DATABASE

Welcome, Project

[Log Out](#)

Navigation Program Directory Support

[Edit This Record](#) [Return](#)

[View printer-friendly version](#)

Submit

Identify Errors

Required Plan Compliance Sheet

## PLAN TYPE AND EXEMPTIONS

Transition period vesting date

07-15-2015 or later

Is the plan a Stormwater Management Plan?

Yes

Is the plan a Soil Erosion and Sediment Control Plan?

Yes

Is the plan a Green Area Ratio plan?

Yes

☐ Project solely involves reconstruction of existing PROW

SWMP number

[Generate SWMP number](#)

What type of activity is Site undergoing?

Major Land Disturbing

Is Site an "AWDZ site?"

Non-AWDZ

Are there trees that are at least 55 inches in circumference?

Does the plan have an EISF Requirement

Request exceptions

☐ Relief from extraordinary difficult site conditions

☐ Exception to 25-foot buffer

Is the site exempt from detention requirements for the 2-year storm





# STORMWATER DATABASE

Welcome, Project

[Log Out](#)

Navigation Program Directory Support

[Edit This Record](#) [Return](#)

[View printer-friendly version](#)

Submit

Identify Errors

Required Plan Compliance Sheet

PLAN TYPE AND EXEMPTIONS

SITE AND LOCATION

LAND COVER AND SITE DRAINAGE AREAS

Add Site Drainage Area

BMPs

BMP title	BMP storage volume (cubic feet)	Retention volume achieved (cubic feet)	Downstream BMP ID Numbers	Treatment Train
-----------	------------------------------------	--	---------------------------	-----------------

No BMPs found

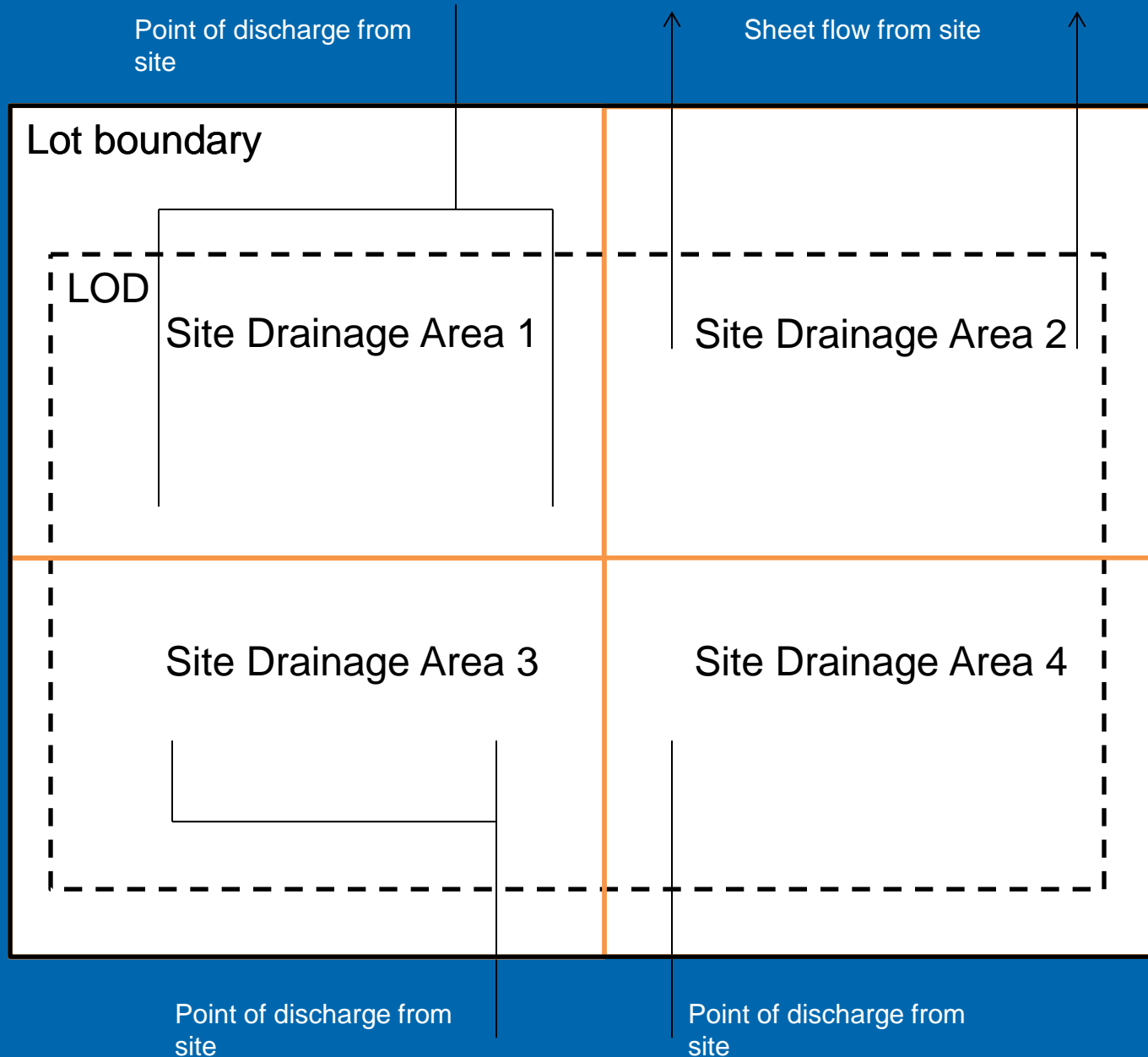
DETENTION REQUIREMENTS

☒ use default curve numbers

☐ Detention requirements are calculated using the rational method

Natural Curve Number	Compacted Curve Number	Impervious Curve Number
70	74	98

# Site Drainage Areas



Save

[Return](#)

Once the Site Drainage Area is added, you can review your plan information to see the total land cover, retention requirements, and retention achieved for all of your Site Drainage Areas combined.

Plan [4861](#)

Site Drainage Area Number 1

Site Drainage Area ID 4861-1

☐ Site Drainage Area is in the Public Right of Way

Type of activity Site Drainage Area is undergoing  
Major Land Disturbing

Is Site Drainage Area in the AWDZ? Non-AWDZ

[SWRv rain event](#) 1.2 (in)

Is the Site Drainage Area in the CSS? Yes

Site Drainage Area major drainage basin Anacostia

Site Drainage Area minor drainage basin -Not Known-

[Is the entire Site Drainage Area exempt from detention requirements for the 2-year storm?](#)

No

## MAJOR LAND DISTURBING ACTIVITY

Only include area within the limits of disturbance

	Total (square feet)	<a href="#">Natural land cover</a>	<a href="#">Compacted land cover</a>	<a href="#">Impervious land cover</a>	<a href="#">BMP Land Cover</a>
Post project	5000			4000	1000
Pre project	5000		5000		

Total area must be equal post project and pre project

[Edit This Record](#) [←Return](#)

[View printer-friendly version](#)

[Add another Site Drainage Area to this Plan](#)

[Site Drainage Area Information](#)

- ▶ SITE DRAINAGE AREA INFORMATION
- ▶ MAJOR LAND DISTURBING ACTIVITY
- ▶ SWRV AND WQTV

	Cubic feet	Gallons
Site Drainage Area SWRV	475	3553

Calculated based on land cover

#### ▶ BMPs

[Add BMP to this Site Drainage Area](#)

Add each BMP individually

#### ▶ DRAINAGE AREA COMPLIANCE

	Cubic feet	Gallons
Retention volume remaining	475	3553

Save

[Return](#)

[View printer-friendly version](#)

Once the BMP is added, you can review your Site Drainage Area or Plan information to see the total retention achieved and the progress toward meeting requirements.

### GENERAL BMP INFORMATION

Plan Number

4861

Site Drainage Area ID

4861-1

BMP number

1

BMP ID number

4861-1-1

BMP X Coordinate

BMP Y Coordinate

BMP installation date

BMP Group \*

Make a Selection...



BMP type \*

Make a Selection...



BMP sub-type

BMP Name

Did DDOE help pay for this BMP?

No



BMP Name is optional  
for identification

X and Y must  
be entered  
before plan is  
submitted

### CONTRIBUTING DRAINAGE AREA

In this section, indicate the area that contributes directly to this BMP. Do not include area that contributes first to an upstream BMP.

☐ CDA includes area outside the authority of the site owner

Total area (square feet)	Natural land cover	Compacted land cover	Impervious land cover	BMP land cover
Post project 0	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
Pre project 0	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>

Total area post  
project and pre  
project must be  
equal.

### BMP RETENTION AND TREATMENT ACHIEVED

Maximum volume received by BMP  
(cubic feet)

0

Retention volume achieved  
(cubic feet)

0

Potential retention volume remaining  
(cubic feet)

0

Additional treatment volume  
(cubic feet)

0



[Save](#) [Return](#)

[View printer-friendly version](#)

Once the BMP is added, you can review your Site Drainage Area or Plan information to see the total retention achieved and the progress toward meeting requirements.

## GENERAL BMP INFORMATION

Plan Number <a href="#">4861</a>	Site Drainage Area ID <a href="#">4861-1</a>	BMP number 1	BMP ID number 4861-1-1
BMP X Coordinate <input type="text"/>	BMP Y Coordinate <input type="text"/>	BMP installation date <input type="text"/>	
BMP Group * Green Roof <input type="button" value="v"/>	BMP type * Extensive green roof - <input type="button" value="v"/>	BMP sub-type <input type="text"/>	
BMP Name Green Roof 1			
Did DDOE help pay for this BMP? No <input type="button" value="v"/>			

## CONTRIBUTING DRAINAGE AREA

In this section, indicate the area that contributes directly to this BMP. Do not include area that contributes first to an upstream BMP.

☐ CDA includes area outside the authority of the site owner

	Total area (square feet)	Natural land cover	Compacted land cover	Impervious land cover	BMP land cover
Post project	500	<input type="text"/>	<input type="text"/>	<input type="text"/>	500
Pre project	500	<input type="text"/>	500	<input type="text"/>	<input type="text"/>

## BMP RETENTION AND TREATMENT ACHIEVED

BMP storage volume (cubic feet) 60			
Maximum volume received by BMP (cubic feet) 67	Retention volume achieved (cubic feet) 60	Potential retention volume remaining (cubic feet) 7	Additional treatment volume (cubic feet) 0





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[BMP Information](#)

## GENERAL BMP INFORMATION

Plan Number	Site Drainage Area ID	BMP number	BMP ID number
<a href="#">4861</a>	<a href="#">4861-1</a>	1	4861-1-1

BMP X Coordinate	BMP Y Coordinate	BMP installation date

BMP Group	BMP type	BMP sub-type
Green Roof	Extensive green roof	

BMP Name
Green Roof 1

Did DDOE help pay for this BMP?

No

## CONTRIBUTING DRAINAGE AREA

In this section, indicate the area that contributes directly to this BMP. Do not include area that contributes first to an upstream BMP.

☐ CDA includes area outside the authority of the site owner

## GENERAL BMP INFORMATION

Plan Number 4861	Site Drainage Area ID 4861-1	BMP number 2	BMP ID number 4861-1-2
BMP X Coordinate	BMP Y Coordinate	BMP installation date	
BMP Group * Bioretention	BMP type * Engineered tree pits - Enhanced	BMP sub-type Enhanced	
BMP Name Bioretention behind the building			
Did DDOE help pay for this BMP? No			

## CONTRIBUTING DRAINAGE AREA

In this section, indicate the area that contributes directly to this BMP. Do not include area that contributes first to an upstream BMP.

☐ CDA includes area outside the authority of the site owner

	Total area (square feet)	Natural land cover	Compacted land cover	Impervious land cover	BMP land cover
Post project	2000			1500	500
Pre project	2000		2000		

## BMP RETENTION AND TREATMENT ACHIEVED

☐ Enhanced practice with an underdrain

BMP storage volume (cubic feet)

200

Maximum volume received by BMP  
(cubic feet)

269

Retention volume achieved  
(cubic feet)

200

Potential retention volume remaining  
(cubic feet)

69

Additional treatment volume  
(cubic feet)

0



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## GENERAL BMP INFORMATION

Plan Number	Site Drainage Area ID	BMP number	BMP ID number
4861	4861-1	2	4861-1-2

[BMP X Coordinate](#) [BMP Y Coordinate](#) [BMP installation date](#)

**BMP Group** **BMP type** **BMP sub-type**  
Bioretention Engineered tree pits Enhanced

[BMP Name](#)

Bioretention behind the building

Did DDOE help pay for this BMP?

No

## CONTRIBUTING DRAINAGE AREA

In this section, indicate the area that contributes directly to this BMP. Do not include area that contributes first to an upstream BMP.

☐ CDA includes area outside the authority of the site owner

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[Site Drainage Area Information](#)

✕ SITE DRAINAGE AREA INFORMATION

✕ MAJOR LAND DISTURBING ACTIVITY

✕ SWRV AND WQTV

	Cubic feet	Gallons
Site Drainage Area SWRV	475	3553

✕ BMPs

[Add BMP to this Site Drainage Area](#)

[Edit BMP ID Numbers](#)

	Cubic feet	Gallons
Retention volume achieved by BMPs	260	1945
Volume treated	0	0

Full Report	More	2 BMPs						
	BMP ID number	BMP Name	BMP Type and Subtype	Retention volume achieved (cubic feet)	Additional treatment volume (cubic feet)	Vehicular access volume addressed?	Downstream BMP ID Numbers	Total Post project vehicular access area
	4861-1-1	4861-1-1 Green Roof 1	Extensive green roof	60	0	N/A		
	4861-1-2	4861-1-2 Bioretention behind the building	Engineered tree pits - Enhanced	200	0	N/A		
TOT				260	0			

✕ DRAINAGE AREA COMPLIANCE

Cubic feet Gallons



## DRAINAGE AREA COMPLIANCE

	Cubic feet	Gallons
Retention volume remaining	215	1608

50% of SWRv retained?

Yes

Runoff from vehicular access areas sufficiently retained or treated?

N/A

Is treatment required?

No

Minimum requirements for drainage area met?

N/A

Note about SWRv

Off Site Retention may be needed.

☐ Can generate SRCs from PROW?

## CHANNEL AND FLOOD PROTECTION

Natural curve number	70	Compacted curve number	74	Impervious curve number	98
Weighted Curve Number	98	S	0.20	Total BMP storage volume	260
Adjusted Curve Numbers					
2-year storm		15-year storm		100-year storm	
Storm size (in)	3.2		5.2		8.37
Runoff volume with no BMPs (in)	2.97		4.96		8.13
Runoff volume with BMPs (in)	2.34		4.34		7.51
Adjusted curve number	92		92		93





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[Site Drainage Area Information](#)

## SITE DRAINAGE AREA INFORMATION

Plan	Site Drainage Area Number	Site Drainage Area ID
<a href="#">4861</a>	1	4861-1
<input type="checkbox"/> Public Right of Way		
Type of activity Site is undergoing	Is Site Drainage Area in the AWDZ?	<a href="#">SWRv</a> rain event (in)
Major Land Disturbing	Non-AWDZ	1.2
Is the Site Drainage Area in the CSS?	Site Drainage Area major drainage basin	Site minor drainage basin
Yes	Anacostia	-Not Known-
<a href="#">Is the entire Site Drainage Area exempt from detention requirements for the 2-year storm?</a>		
No		

## MAJOR LAND DISTURBING ACTIVITY

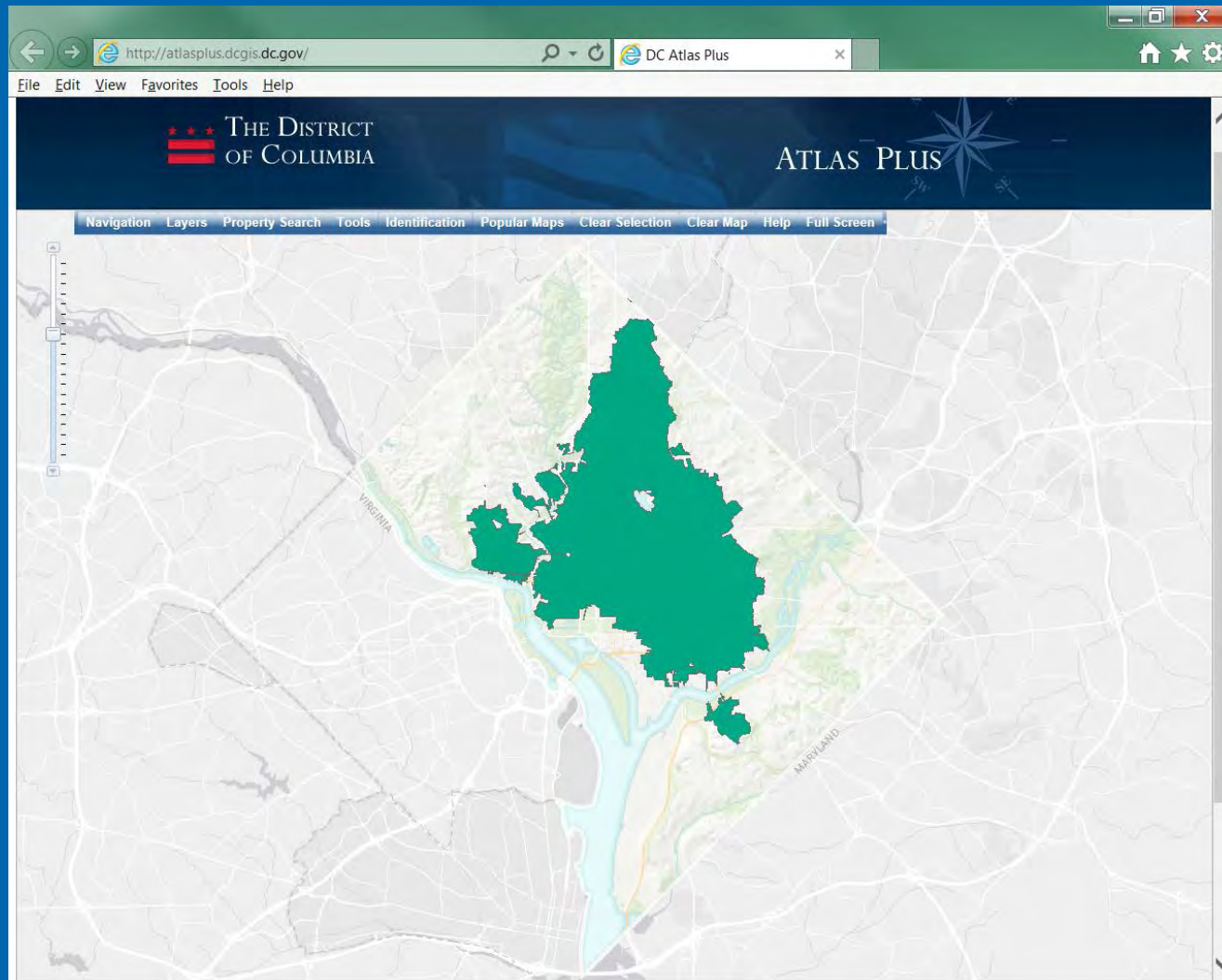
	Total (square feet)	<a href="#">Natural land cover</a>	<a href="#">Compacted land cover</a>	<a href="#">Impervious land cover</a>	<a href="#">BMP Land Cover</a>
Post project	5000			4000	1000
Pre project	5000		5000		

## SWRv AND WQTV

Cubic feet Gallons

MS4

# Map of Combined Sewer System (CSS)



# Site Drainage Area Requirements (MS4 Only)

- Retain or treat 50% of the SWRv
- 100% of Vehicular Access Area (VAA) must drain to BMPs
- Retain or treat 50% of the SWRv from the entire Vehicular Access Area





Save

[←Return](#)

Once the Site Drainage Area is added, you can review your plan information to see the total land cover, retention requirements, and retention achieved for all of your Site Drainage Areas combined.

Plan [4861](#)

Site Drainage Area Number 2

Site Drainage Area ID 4861-2

☐ Site Drainage Area is in the Public Right of Way

Type of activity  
Site Drainage Area is undergoing  
Major Land Disturbing

Is Site Drainage Area in the AWDZ?

AWDZ

SWRv rain event (in) 1.2

Is the Site Drainage Area in the CSS?\*

No

Site Drainage Area major drainage basin  
Anacostia

Site Drainage Area minor drainage basin  
-Not Known-

Is the entire Site Drainage Area exempt from detention requirements for the 2-year storm?\*

No

## MAJOR LAND DISTURBING ACTIVITY

Only include area within the limits of disturbance

	Total (square feet)	Natural land cover	Compacted land cover	Impervious land cover	BMP Land Cover	Vehicular Access Area
Post project	6000		1000	3000	2000	3000
Pre project	6000			6000		

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[Add another Site Drainage Area to this Plan](#)

[Site Drainage Area Information](#)

#### ▶ SITE DRAINAGE AREA INFORMATION

#### ▶ MAJOR LAND DISTURBING ACTIVITY

#### ▶ SWRV AND WQTV

	Cubic feet	Gallons
Site Drainage Area SWRV	500	3740
Site Drainage Area WQTV	208	1558
Treatment requirement for vehicular access area	143	1066

#### ▶ BMPs

[Add BMP to this Site Drainage Area](#)

#### ▶ DRAINAGE AREA COMPLIANCE

	Cubic feet	Gallons
Retention volume		

# Treatment Trains

# Treatment Trains

- Enter information for the first BMP
- Enter information for the downstream BMP
- Create a connection between these two BMPs
- Update this connection as necessary



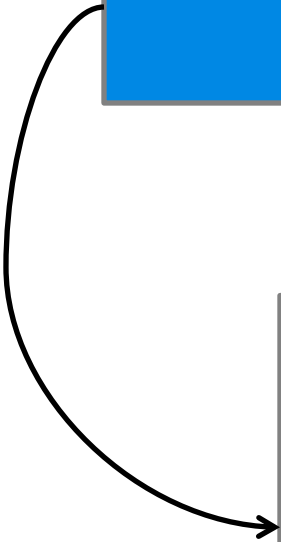


Contributing Drainage Area to BMP 1

BMP 1

Contributing Drainage Area to BMP 2

BMP 2



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Once the BMP is added, you can review your Site Drainage Area or Plan information to see the total retention achieved and the progress toward meeting requirements.

## GENERAL BMP INFORMATION

Plan Number <a href="#">4861</a>	Site Drainage Area ID <a href="#">4861-2</a>	BMP number 1	BMP ID number 4861-2-1
BMP X Coordinate <input type="text"/>	BMP Y Coordinate <input type="text"/>	BMP installation date <input type="text"/>	
BMP Group * Bioretention	BMP type * Streetscape bioretention - Enhanced	BMP sub-type Enhanced	
BMP Name First bioretention			
Did DDOE help pay for this BMP? No			

## CONTRIBUTING DRAINAGE AREA

In this section, indicate the area that contributes directly to this BMP. Do not include area that contributes first to an upstream BMP.

☐ CDA includes area outside the authority of the site owner

	Total area (square feet)	Natural land cover	Compacted land cover	Impervious land cover	BMP land cover	Vehicular access area
Post project	2000	<input type="text"/>	<input type="text"/>	1000	1000	1000
Pre project	2000	<input type="text"/>	<input type="text"/>	2000	<input type="text"/>	<input type="text"/>

## BMP RETENTION AND TREATMENT ACHIEVED

☐ Enhanced practice with an underdrain

BMP storage volume (cubic feet)

45

Maximum volume received by BMP (cubic feet)

269

Retention volume achieved (cubic feet)

45

Potential retention volume remaining (cubic feet)

224

Additional treatment volume (cubic feet)

0

Vehicular access volume addressed?

No

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Create another BMP in the same Site Drainage Area

BMP Information

### GENERAL BMP INFORMATION

Plan Number	Site Drainage Area ID	BMP number	BMP ID number
<a href="#">4861</a>	<a href="#">4861-2</a>	1	4861-2-1

BMP X Coordinate BMP Y Coordinate BMP installation date

BMP Group BMP type BMP sub-type  
Bioretention Streetscape bioretention Enhanced

BMP Name  
First bioretention

Did DDOE help pay for this BMP?  
No

### CONTRIBUTING DRAINAGE AREA

### BMP RETENTION AND TREATMENT ACHIEVED

### DOWNSTREAM BMP

If this BMP is part of a treatment train, select the downstream BMP. You can click the button below to add a new BMP to the dropdown menu.

**Note:** Some information is copied from one BMP to another. When storage, retention, and treatment information changes, it may be necessary to "Refresh" some BMPs. When this is necessary, a refresh button will appear at the top of the BMP form.

Downstream BMP ID number

Add downstream BMP

Save

[←Return](#)

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Once the BMP is added, you can review your Site Drainage Area or Plan information to see the total retention achieved and the progress toward meeting requirements.

## GENERAL BMP INFORMATION

Plan Number

4861

Site Drainage Area ID

4861-2

BMP number

2

BMP ID number

4861-2-2

BMP X Coordinate

BMP Y Coordinate

BMP installation date

BMP Group \*

Bioretention



BMP type \*

Streetscape bioretention - Standard



BMP sub-type

Standard

BMP Name

Second bioretention

Did DDOE help pay for this BMP?

No



## CONTRIBUTING DRAINAGE AREA

In this section, indicate the area that contributes directly to this BMP. Do not include area that contributes first to an upstream BMP.

☐ CDA includes area outside the authority of the site owner

	Total area (square feet)	Natural land cover	Compacted land cover	Impervious land cover	BMP land cover	Vehicular access area
Post project	3000	<input type="text"/>	<input type="text"/>	2000	1000	2000
Pre project	3000	<input type="text"/>	<input type="text"/>	3000	<input type="text"/>	<input type="text"/>

## BMP RETENTION AND TREATMENT ACHIEVED

BMP storage volume (cubic feet)

350

Maximum volume received by BMP (cubic feet)

404

Retention volume achieved (cubic feet)

210

Potential retention volume remaining (cubic feet)

194

Additional treatment volume (cubic feet)

140

Vehicular access volume addressed?

Yes



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[Create another BMP in the same Site Drainage Area](#)

[BMP Information](#)

## GENERAL BMP INFORMATION

Plan Number <a href="#">4861</a>	Site Drainage Area ID <a href="#">4861-2</a>	BMP number 1	BMP ID number 4861-2-1
BMP X Coordinate <input type="text"/>	BMP Y Coordinate <input type="text"/>	BMP installation date	
BMP Group * Bioretention	BMP type * Streetscape bioretention - Enhanced	BMP sub-type Enhanced	
BMP Name First bioretention			
Did DDOE help pay for this BMP? No			

## CONTRIBUTING DRAINAGE AREA

## BMP RETENTION AND TREATMENT ACHIEVED

## DOWNSTREAM BMP

If this BMP is part of a treatment train, select the downstream BMP. You can click the button below to add a new BMP to the dropdown menu.

Note: Some information is copied from one BMP to another. When storage, retention, and treatment information changes, it may be necessary to "Refresh" some BMPs. When this is necessary, a refresh button will appear at the top of the BMP form.

Downstream BMP ID number

Make a Selection...  
4861-2-1 First bioretention Streetscape bioretention  
4861-2-2 Second bioretention Streetscape bioretention

[Add downstream BMP](#)

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[Create another BMP in the same Site Drainage Area](#)

[BMP Information](#)

### GENERAL BMP INFORMATION

Plan Number	Site Drainage Area ID	BMP number	BMP ID number
<input type="text" value="4861"/>	<input type="text" value="4861-2"/>	<input type="text" value="1"/>	<input type="text" value="4861-2-1"/>
<input type="text" value="BMP X Coordinate"/>	<input type="text" value="BMP Y Coordinate"/>	<input type="text" value="BMP installation date"/>	
BMP Group	BMP type	BMP sub-type	
<input type="text" value="Bioretention"/>	<input type="text" value="Streetscape bioretention"/>	<input type="text" value="Enhanced"/>	
<input type="text" value="BMP Name"/>			
<input type="text" value="First bioretention"/>			
<input type="text" value="Did DDOE help pay for this BMP?"/>			
<input type="text" value="No"/>			

### CONTRIBUTING DRAINAGE AREA

### BMP RETENTION AND TREATMENT ACHIEVED

<input type="checkbox"/> Enhanced practice with an underdrain				
<input type="text" value="BMP storage volume (cubic feet)"/>				
<input type="text" value="45"/>				
<input type="text" value="Maximum volume received by BMP (cubic feet)"/>	<input type="text" value="Retention volume achieved (cubic feet)"/>	<input type="text" value="Potential retention volume remaining (cubic feet)"/>	<input type="text" value="Additional treatment volume (cubic feet)"/>	<input type="text" value="Vehicular access volume addressed?"/>
<input type="text" value="269"/>	<input type="text" value="45"/>	<input type="text" value="224"/>	<input type="text" value="0"/>	<input type="text" value="Yes"/>

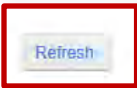
### DOWNSTREAM BMP

If this BMP is part of a treatment train, select the downstream BMP. You can click the button below to add a new BMP to the dropdown menu.

Note: Some information is copied from one BMP to another. When storage, retention, and treatment information changes, it may be necessary to "Refresh" some BMPs. When this is necessary, a refresh button will appear at the top of the BMP form.

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It may be necessary to periodically “refresh” a BMP in a treatment train if an upstream or downstream BMP changes

[Create another BMP in the same Site Drainage Area](#)

[BMP Information](#)

#### GENERAL BMP INFORMATION

Plan Number	Site Drainage Area ID	BMP number	BMP ID number
<a href="#">4861</a>	<a href="#">4861-2</a>	2	4861-2-2

[BMP X Coordinate](#) [BMP Y Coordinate](#) [BMP installation date](#)


BMP Group: Bioretention  
BMP type: Streetscape bioretention  
BMP sub-type: Standard

[BMP Name](#)  
Second bioretention

Did DDOE help pay for this BMP?  
No

#### CONTRIBUTING DRAINAGE AREA

#### UPSTREAM BMPS

Full Report   More   1 BMP				
	BMP type	BMP sub-type	BMP ID number	Volume that can be contributed to treatment train (cubic feet)
	Streetscape bioretention	Enhanced	4861-2-1	224
TOT				224

#### BMP RETENTION AND TREATMENT ACHIEVED

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▶ SITE DRAINAGE AREA INFORMATION

▶ MAJOR LAND DISTURBING ACTIVITY

▶ SWRV AND WQTV

	Cubic feet	Gallons
Site Drainage Area SWRV	500	3740
Site Drainage Area WQTV	208	1558
Treatment requirement for vehicular access area	143	1066

▶ BMPs

[Add BMP to this Site Drainage Area](#)

[Edit BMP ID Numbers](#)

	Cubic feet	Gallons
Retention volume achieved by BMPs	255	1907
Volume treated	140	1047







Volume treated

140

1047

Full Report | More ▾ 2 BMPs

	BMP ID number	BMP Name	BMP Type and Subtype	Retention volume achieved (cubic feet)	Additional treatment volume (cubic feet)	Vehicular access volume addressed?	Downstream BMP ID Numbers	Total Post project vehicular access area
 	4861-2-1	4861-2-1 First bioretention	Streetscape bioretention - Enhanced	45	0	Yes	4861-2-2	1000
 	4861-2-2	4861-2-2 Second bioretention	Streetscape bioretention - Standard	210	140	Yes		2000
TOT				255	140			

▾

DRAINAGE AREA COMPLIANCE

	Cubic feet	Gallons
Retention volume remaining	245	1833
Volume remaining to treat WQTV	68	511

50% of SWRv retained?

Runoff from vehicular access areas sufficiently retained or treated?

Yes

Yes

Is treatment required?

Minimum requirements for drainage area met?

No

Yes

Note about SWRv

Note about WQTV

Off Site Retention may be needed.

Off Site Retention may be needed.

☐ Can generate SRCs from PROW?

▾

CHANNEL AND FLOOD PROTECTION

Natural curve number

70

Compacted curve number

74

Impervious curve number

98

Weighted Curve Number

94

S

0.64

Total BMP storage volume

395



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Identify Errors

Required Plan Compliance Sheet

- PLAN TYPE AND EXEMPTIONS
- SITE AND LOCATION
- LAND COVER AND SITE DRAINAGE AREAS





[Add Site Drainage Area](#)





Total area

11,000









Post-project natural land cover	Post-project compacted land cover	Post-project impervious land cover	Post-project BMP land cover
0	1000	7000	3000
Pre-project natural land cover	Pre-project compacted land cover	Pre-project impervious land cover	Pre-project BMP land cover
0	5000	6000	0

Site Drainage Areas



Full Report	More	2 Site Drainage Areas				
		Site Drainage Area ID	CSS?	AWDZ	Type of Activity	Minimum requirements for drainage area met?
		4861-1	Yes	Non-AWDZ	Major Land Disturbing	N/A
		4861-2	No	AWDZ	Major Land Disturbing	Yes

 	4861-1	Yes	Non-AWDZ	Major Land Disturbing	N/A
 	4861-2	No	AWDZ	Major Land Disturbing	Yes




▼ BMPs

Full Report   More ▼ 4 BMPs					
	BMP title	BMP storage volume (cubic feet)	Retention volume achieved (cubic feet)	Downstream BMP ID Numbers	Treatment Train
 	4861-1-1 Green Roof 1 Extensive green roof	60	60		
 	4861-1-2 Bioretention behind the building Engineered tree pits	200	200		
 	4861-2-1 First bioretention Streetscape bioretention	45	45	4861-2-2	TT - 4861-2-2
 	4861-2-2 Second bioretention Streetscape bioretention	350	210		TT - 4861-2-2
TOT		655	515		


▼ RETENTION AND TREATMENT REQUIREMENTS

 Site SWRv (cubic feet)	 Site SWRv (gal)
975	7293
Plan WQTV (cubic feet)	Plan WQTV (gal)
208	1558

▼ RETENTION AND TREATMENT ACHIEVED

 Total on-site retention volume achieved by BMPs (cubic feet)	Total on-site retention volume achieved by BMPs (gal)
515	3852
 Site retention volume remaining (cubic feet)	Site retention volume remaining (gal)
460	3441
 Total volume treated (cubic feet)	Total volume treated (gal)
140	1047
Total volume remaining to treat WQTV (cubic feet)	Total treatment volume remaining to treat WQTV (gal)
68	511

▼ SUMMARY, OFFv, AND SRCs

At least 50% of SWRv for the Site Retained?  Offv
Yes 3952

▼ DETENTION REQUIREMENTS



## DETENTION REQUIREMENTS

☒ use default curve numbers

☐ Detention requirements are calculated using the rational method

Natural Curve Number	Compacted Curve Number	Impervious Curve Number
70	74	98
Pre-development curve number	Pre-project curve number	
70	87	
2-year storm adjusted curve number	15-year storm adjusted curve number	100-year storm adjusted curve number
88	89	90

## PROJECT DESCRIPTION

Project Name	Property Class	
Text Project	Commercial	
Total cost of construction	Cost of building renovation	Submission Type
\$1,000,000.00	20000	ProjectDox
Project Description		
This is an example project		
<a href="#">Notify DDOE of removal of BMPs from pre-existing plans</a>		
Is this a PUD project		
No		

## CONSTRUCTION INFORMATION

[Edit construction information](#)

Engineering company	
Project engineer	Project engineer email
Project engineer phone	Project engineer fax
Building permit number	Permit types

## GREEN AREA RATIO



Save

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## SITE AND PLAN INFORMATION

Primary Street Address SWMP number File number  
1200 1ST Street NE [4861](#)

Property Class Ward Sewershed  
Commercial 6 MS4

Inspector Name Inspector Badge number

## CONSTRUCTION INFORMATION

Engineering company

Project engineer

Project engineer email

Project engineer phone

 ext. 

Project engineer fax

 ext. 

Contractor

Contractor phone

 ext. 

Person responsible for maintenance

Phone number for person responsible for maintenance

 ext. 

Email address for person responsible for maintenance

Building permit number

Permit type

TOPS Permit Number

## DOCUMENTS

[New Document](#)

### PROJECT DESCRIPTION

Project Name	Property Class	
<input type="text" value="Text Project"/>	<input type="text" value="Commercial"/>	
Total cost of construction	<input type="text" value="Cost of building renovation"/>	Submission Type
<input type="text" value="\$1,000,000.00"/>	<input type="text" value="20000"/>	<input type="text" value="ProjectDox"/>
Project Description		
<input type="text" value="This is an example project"/>		
<a href="#">Notify DDOE of removal of BMPs from pre-existing plans</a>		
Is this a PUD project		
<input type="text" value="No"/>		

### CONSTRUCTION INFORMATION

[Edit construction information](#)

Engineering company

Project engineer	Project engineer email
<input type="text"/>	<input type="text"/>
Project engineer phone	Project engineer fax
<input type="text"/>	<input type="text"/>
Building permit number	Permit types
<input type="text"/>	<input type="text"/>

### GREEN AREA RATIO

Zone	Required GAR Score	Actual GAR Score
<input type="text" value="C-3-C"/>	<input type="text" value="0.2"/>	<input type="text"/>

### PLAN DOCUMENTS

[Add Document](#)

Attachment	Type of Document	Comment
<input type="text"/>		
No documents found		



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Type of Document \*



Comment



[Use the old Stormwater Database design](#)

Submit the Plan

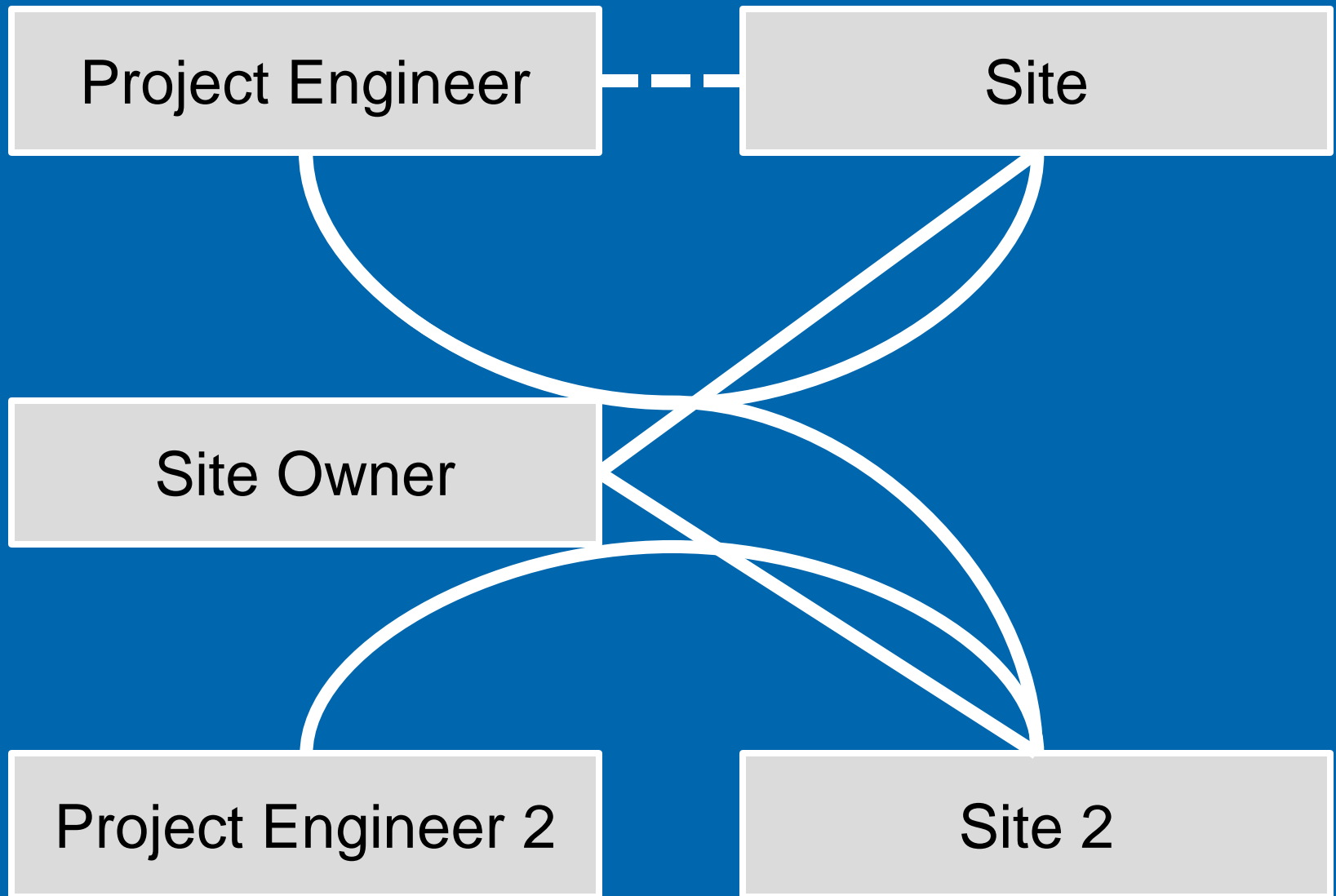


# Necessary Steps Prior to Submittal

- Request to be an Agent for the Site Owner
- Correct all Plan Errors
- Generate the Required Plan Compliance Sheet
- Submit the Plan

# Agents

- You can modify information in the SGS for Sites that you manage
- You can modify information in the SGS for Sites that are managed by someone who has delegated authority to you





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## Public User Homepage

[Sites and Plans](#)

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[SRC and Offv Registry](#)

[My SRCs and Offv](#)

[My RiverSmart Rewards](#)



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# STORMWATER DATABASE

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## Agents

Add an Agent

I am an Agent for Someone

- These people are my agents (0)

*No Records Found*

- I am an agent for the following people (0)

*No Records Found*



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# STORMWATER DATABASE

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Save

Who are you an agent for? Enter this person's contact information below. A notification will be sent to the email address you list to prompt them to confirm this relationship.

Name

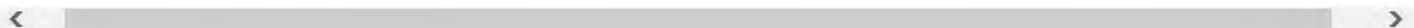
Email \*

Phone  ext.

Principal's role

Agent's role

Request access to a specific site



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# STORMWATER DATABASE

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## Agents

[Add an Agent](#)

[I am an Agent for Someone](#)

- These people are my agents (0) [Print](#) [Export](#)

	Agent name	Agent email	Agent phone	Confirm Relationship	Confirmed?
 	John Doe	project.engineer1200@gmail.com	(202) 555-1234	<a href="#">Confirm Relationship</a>	<input type="checkbox"/>

- I am an agent for the following people (0)

No Records Found



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# STORMWATER DATABASE

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Select which account has an agent

Test Company

Agent name

John Doe

Agent email \*

project.engineer1200@gmail.com

Agent phone

2025551234

ext.

Principal's role

Property manager

Agent's role

Project engineer

## CONTROL AGENT'S ACCESS

☐ Agent has permission to view and modify Site, Plan, Site Drainage Area, and BMP information for all my Sites, and to submit Plans to DDOE for review for all my Sites. ⓘ

Agent has permission to view and modify Site, Plan, Site Drainage Area, and BMP information for this Site, to submit Plans to DDOE for this Site, and to establish an off-site retention obligation for this Site.

1200 1ST Street NE

☐ Agent has permission to apply to use SRCs or submit an ILF notification to meet my Offv requirement(s) ⓘ

☐ Agent has permission to apply to certify, transfer, or retire SRCs, and to update my information in the SRC registry ⓘ

Submit





# STORMWATER DATABASE

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Are you the owner or manager for 1200 1ST Street NE?



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## SITE INFORMATION

☐ Soil Erosion and Sediment Control and/or GAR only

Address Format

Address

Address number	Street name	Street type	Quadrant
1200	1ST	Street	NE

## SITE OWNER

Site Owner/Manager

[Test Company](#)

## PLANS AFFILIATED WITH THIS SITE

[Enter a new plan for this site](#)

Full Report	More	4 Plans			
		Plan number	Site SWRv (gal)	Offv	SRC eligibility
		4869	0	0	2250
		4861	7293	3952	0
		s5590	1066	0	0





# STORMWATER DATABASE

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Submit

Identify Errors

Required Plan Compliance Sheet

## PLAN TYPE AND EXEMPTIONS

**Transition period vesting date**  
07-15-2015 or later

<b>Is the plan a Stormwater Management Plan?</b> Yes	<b>Is the plan a Soil Erosion and Sediment Control Plan?</b> Yes	<b>Is the plan a Green Area Ratio plan?</b> Yes
---	---	--

☐ Project solely involves reconstruction of existing PROW

<b>SWMP number</b> 4861	<b>What type of activity is Site undergoing?</b> Major Land Disturbing	<b>Is Site an "AWDZ site?"</b> Partially AWDZ
----------------------------	---	--

Are there trees that are at least 55 inches in circumference?

Does the plan have an EISF Requirement

Request exceptions

<input type="checkbox"/> Relief from extraordinarily difficult site conditions	<input type="checkbox"/> Exception to 25-foot buffer
--	--

**Is the site exempt from detention requirements for the 2-year storm**  
No

## SITE AND LOCATION



# STORMWATER DATABASE

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## Submittal Errors

This report displays system errors or missing information that must be updated by the applicant.

Full Report	Grid Edit	Email	More	2 Errors	
	Error	Instructions		When should error be addressed	Fix the error
	One or more BMPs are missing X and Y coordinates	All BMPs must have X and Y coordinates (MD State Plane, North American Datum (NAD) 1983 in meters). Click "Fix the error" to enter BMP X and Y coordinates.		SWMP Submittal	<a href="#">Fix the error</a>
	You must enter landscape expert information for GAR	Click "Fix the Error" to return to the form for the plan. In the Green Area Ratio (GAR) section, please enter then name and email address for the landscape expert.		SWMP Submittal	<a href="#">Fix the error</a>

## Approval Errors

You must address the below errors before the plan may be **APPROVED**. These are not required for plan submittal.

Full Report   Grid Edit   Email   More ▾				2 Errors	
Error	Instructions			When should error be addressed	Fix the error
There is no building permit number	While you do not need to enter the building permit number into the Stormwater Database in order to submit the plan for initial review, you must still file the building permit application in order for DOEE to be review. Then, you may enter the building permit number into the Stormwater Database prior to plan approval. Click "Fix the error" to enter the building permit number.			SWMP Approval	<a href="#">Fix the error</a>
The person responsible for maintenance must sign the maintenance responsibility stamp	Prior to plan approval, the person responsible for maintenance must log in to the Stormwater Database and sign the maintenance responsibility stamp. This stamp must be incorporated on the plan set via the Required Plan Compliance Sheet.  If the compliance data changes, this will require a new maintenance responsibility stamp.			SWMP Approval	<a href="#">Fix the error</a>



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# STORMWATER DATABASE

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Submit

Identify Errors

Required Plan Compliance Sheet

## PLAN TYPE AND EXEMPTIONS

**Transition period vesting date**  
07-15-2015 or later

<b>Is the plan a Stormwater Management Plan?</b> Yes	<b>Is the plan a Soil Erosion and Sediment Control Plan?</b> Yes	<b>Is the plan a Green Area Ratio plan?</b> Yes
---	---	--

☐ Project solely involves reconstruction of existing PROW

<b>SWMP number</b> 4861	<b>What type of activity is Site undergoing?</b> Major Land Disturbing	<b>Is Site an "AWDZ site?"</b> Partially AWDZ
----------------------------	---	--

Are there trees that are at least 55 inches in circumference?

Does the plan have an EISF Requirement

Request exceptions

<input type="checkbox"/> Relief from extraordinarily difficult site conditions	<input type="checkbox"/> Exception to 25-foot buffer
--	--

**Is the site exempt from detention requirements for the 2-year storm**  
No

## SITE AND LOCATION



## Stormwater Management Plan Compliance Data

Site Address	1200 1ST Street NE	Plan number	4861
Stormwater Management Plan?	Yes	Green Area Ratio?	Yes
Soil Erosion and Sediment Control?	Yes	Floodplain Review?	No
Type of Activity	Major Land Disturbing	AWDZ?	Partially AWDZ

	Total Area (sf)	Site Area	PROW
Natural	0	0	
Compacted	1,000	1,000	
Impervious	7,000	7,000	
BMP	3,000	3,000	
Total	11,000	11,000	

### Curve Numbers

☐ Detention requirements calculated with rational method?

Pre-development	70	2-year storm adjusted CN	88
Pre-project	87	15-year storm adjusted CN	89
		100-year storm adjusted CN	90

### Requirements Summary (total is the sum of PROW and Parcel)

	PROW (ft³)	Parcel (ft³)	Total (ft³)	Total (Gallons)
SWRv	975	975	975	7,293
WQTV	208	208	208	1,558
On-site retention achieved	515	515	515	3,852
On-site treatment achieved	140	140	140	1,047
% of SWRv met on-site	53%	52.82%	52.82%	52.82%
SRC eligibility (all numbers in gallons)				0
Offv				3,952

### Site Drainage Area Compliance Data

Site Drainage Area ID	Public Right of Way	Total area (square feet)	Natural (square feet)	Compacted (square feet)	Impervious (square feet)	BMP (square feet)	Vehicular access area	SWRv (cubic feet)	WQTV (cubic feet)	Volume retained (cubic feet)	Volume treated (cubic feet)	2-year storm adjusted Curve Number	15-year storm adjusted Curve Number	100-year storm adjusted Curve Number	Compliant
4861-2	<input type="checkbox"/>	6,000		1,000	3,000	2,000	3,000	500	208	255	140	85	87	87	Yes
4861-1	<input type="checkbox"/>	5,000			4,000	1,000		475		260		92	92	93	N/A

### Site BMP Compliance Data



BMP ID number	Type	Total CDA (square feet)	Natural (square feet)	Compacted (square feet)	Impervious (square feet)	BMP (square feet)	Total Post project vehicular access area	Volume received from upstream BMPs (cubic feet)	Max volume received by BMP (cubic feet)	Storage volume (cubic feet)	Retention calculation	Volume retained (cubic feet)	Volume treated (cubic feet)	Downstream BMP ID Numbers
4861-1-1	Extensive green roof	500				500			67	60	100% of storage volume	60		
4861-1-2	Engineered tree pits - Enhanced	2,000			1,500	500			269	200	100% of storage volume	200		
4861-2-1	Streetscape bioretention - Enhanced	2,000			1,000	1,000	1,000		269	45	100% of storage volume	45		4861-2-2
4861-2-2	Streetscape bioretention - Standard	3,000			2,000	1,000	2,000	224	628	350	60% of storage volume	210	140	

### PROW Drainage Area Compliance Data

### PROW BMP Compliance Data



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Submit

Identify Errors

Required Plan Compliance Sheet

## PLAN TYPE AND EXEMPTIONS

Transition period vesting date

07-15-2015 or later

Is the plan a Stormwater Management Plan?

Yes

Is the plan a Soil Erosion and Sediment Control Plan?

Yes

Is the plan a Green Area Ratio plan?

Yes

☐ Project solely involves reconstruction of existing PROW

SWMP number

4861

What type of activity is Site undergoing?

Major Land Disturbing

Is Site an "AWDZ site?"

Partially AWDZ

Are there trees that are at least 55 inches in circumference?

Does the plan have an EISF Requirement

Request exceptions

☐ Relief from extraordinarily difficult site conditions

☐ Exception to 25-foot buffer

Is the site exempt from detention requirements for the 2-year storm

No

## SITE AND LOCATION



# STORMWATER DATABASE

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Plan number [4861](#)

Date 09-21-2015

Who should receive email  
communication from  
DDOE regarding this  
plan?

Click Save to submit this information to DDOE.

DDOE will begin its review when submittal of all materials is complete. **This includes submission of the plan at DCRA.**

When DDOE begins its review, your access to this plan information will be read-only.

[Submit Plan Information](#)



[Use the old Stormwater Database design](#)



←

→

M

https://mail.google.com/mail/?ui=2&ik=d689109b78&view=

🔍

🔒

🔄

DDOE Stormwater...

M

Inbox (43) - projec...

M

Plan Submitted... x

🏠

★

⚙️

FileEditViewFavoritesToolsHelp

📁

❗

🗑️

📁

📍

More ▾

Plan Submitted to DDOEInbox x

🖨️

👤

notify@quickbase.com

to me ▾

5:02 PM (0 minutes ago)★🔄▾

★ ★ ★

DEPARTMENT  
OF ENERGY &  
ENVIRONMENT

This is confirmation that you have submitted information in the Stormwater Database to support your application for plan number 4861. **FOLLOW THESE STEPS TO COMPLETE YOUR SUBMISSION PROCESS**: Please visit the DCRA Permit Center, where DOEE will provide invoices for filing fees. Please scan and upload the receipt(s) for fee payment to the Stormwater Database. DOEE will begin its review when submittal of all materials is complete. When DOEE begins its review, your access to this plan information will be read-only.

The plan you submitted has an Offv requirement of 3952 gallons. Offv is an annual commitment that may be met through the use of SRCs, payment of the ILF, or a combination of SRC use and ILF payment. Offv must be met beginning with the date of the Final Construction Inspection. Regulated sites are responsible for their Offv on an ongoing basis. If onsite retention is increased in the future, Offv can be reduced.

A list of SRCs for Sale is available in the SRC Registry, as is a list of expected SRCs (the SRC eligibility for SWMPs that have been approved by DDOE but have not yet had a Final Construction Inspection).

[You can log into the database to periodically check on your plan's status.](#)



## Next Steps

- File the building permit application and go to the Permit Center at DCRA (1100 4<sup>th</sup> Street SW) to pick up an invoice for filing fees
- Pay filing fees and upload a receipt to the Surface and Groundwater System
- Failure to complete this process will put review of your plan on hold
- DOEE will provide review comments
- Revise the plan information, updating the record in the SGS, and resubmit

## GREEN AREA RATIO

Zone Required GAR Score Actual GAR Score  
 C-3-C 0.2

## PLAN DOCUMENTS

Add Document

Attachment Type of Document Comment

No documents found

## PLAN REVIEW

Full Report	More	1 Plan Status
Date	Submittal number	Status
09-21-2015	1	Submitted

SWM/ESC Reviewer Email Reviewer Phone  
 GAR Reviewer Name GAR Reviewer Email GAR Reviewer Phone

Database shows assigned plan reviewer and review status

## FEES

Total fees			Total fees paid					
Fee Type	Total ESC fees	ESC fees paid	Total SWMP Fees	SWMP fees paid	Total GAR Fees	GAR fees paid	Total Floodplain Fees	Total Floodplain Fees Paid

No fees found

## INSPECTIONS

Final Construction Inspection Date

Construction inspections

Inspection Date	Final Construction Inspection?	Documents and Photos	Comments
-----------------	--------------------------------	----------------------	----------

No inspections found

Maintenance inspections

Inspection Date	Documents and Photos	Comments
-----------------	----------------------	----------

No inspections found

Inspection dates and documents can be accessed

# Approval Process

- The complete maintenance responsibility and Offv statements
- Generate a new Required Plan Compliance Sheet
- Attach a PDF of the plan
- DOEE applies electronic approval stamps
- After final fees are paid, you can access the approved plan

# Maintenance Responsibility and Offv

- All Major Regulated Projects must have the person responsible for maintenance sign the Maintenance Responsibility Stamp online
- All sites with Offv must have the person responsible for achieving Offv sign the Offv Stamp online
- These stamps should be signed by the site owner or someone with responsibility for long-term management of the site.
- These stamps are not typically completed by the project engineer



Plan number

5031

## STATEMENT BY PERSON RESPONSIBLE FOR MAINTENANCE

The undersigned agrees to maintain and operate the stormwater best management practices (BMPs), stormwater infrastructure, and land covers in such a manner as to comply with the provisions of Chapter 5 of Title 21 of the District of Columbia Municipal Regulations (DCMR).

Responsibility for maintenance and operation may be transferred to another entity upon written notice to the Watershed Protection Division of the Department of Energy and Environment from the undersigned and the entity assuming responsibility. This notice must certify that the transfer of responsibility for maintenance and operation is in compliance with 21 DCMR Chapter 5.

Enter your name and click "submit" to sign this statement:

\*

Please note that the signature must match the name associated with this account.

If your name and contact information does not appear below, please contact Matthew Espie at [matthew.espie@dc.gov](mailto:matthew.espie@dc.gov) or (202) 715-7644.

Name

Jane Smith

Title

Manager

Organization

Test Company, LLC

Address

Jane Smith  
Test Company, LLC  
123 Test Street NW  
Washington, DC 20000

Email

site.owner1200@gmail.com

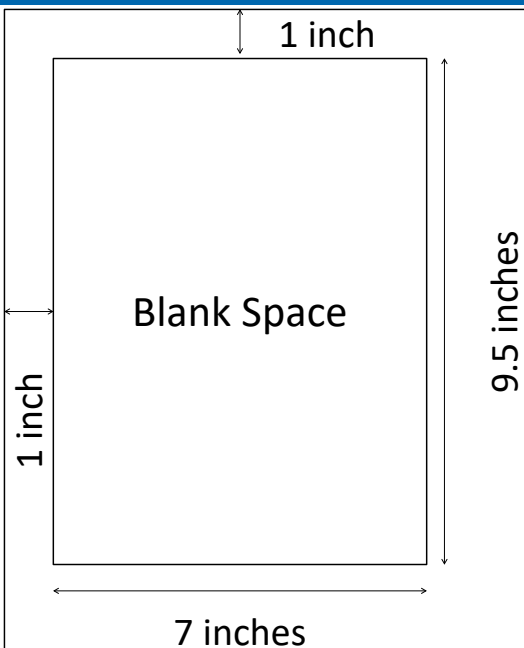
Phone

(202) 555-5555

Submit Signature

# Plan Format

- Leave a blank space on the first page:
  - 7 inches wide
  - 9.5 inches high
  - Located 1 inch below the top and 1 inch from the left
- Attach as a PDF, do not use a zip file
- Files may not exceed either 50 MB or 150 pages.
  - If you cannot meet these limits, you may attach several files, each of which will receive a stamp from DOEE. Include the cover sheet in each file and label it clearly to indicate the order (i.e. part 1 of 3)



The first page of the plan also includes other project information, as directed by DOEE's reviewer, including:

- Project name and address
- Plan number
- Map
- Sheet index
- Contact information
- Project narrative
- Square/Suffix/Lot or Parcel

# Exemptions from GAR or Erosion and Sediment Control





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## PLAN TYPE AND EXEMPTIONS

Transition period vesting date \*

07-15-2015 or later

Is the plan a Stormwater Management Plan? \*

Yes

Is the plan a Soil Erosion and Sediment Control Plan? \*

Yes

Is the plan a Green Area Ratio plan? \*

Yes

☐ Project solely involves reconstruction of existing PROW

SWMP number

What type of activity is Site undergoing? \*

Are there trees that are at least 55 inches in circumference?

Does the plan have an EISF Requirement

Request exceptions:

☐ Relief from extraordinarily difficult site conditions

☐ Exception to 25-foot buffer

Is the site exempt from detention requirements for the 2-year storm

No

## SITE AND LOCATION

Site \*

Is the entire site in the CSS? \*

# DATABASE

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## PLAN TYPE AND EXEMPTIONS

Transition period vesting date \*

07-15-2015 or later

Is the plan a Stormwater Management Plan? \*

Yes

Is the plan a Soil Erosion and Sediment Control Plan? \*

Yes

Is the plan a Green Area Ratio plan? \*

No - GAR Exemption

[Download Application for Exemption Status](#)

☐ Project solely involves reconstruction of existing PROW

SWMP number

What type of activity is Site undergoing? \*

Are there trees that are at least 55 inches in circumference?

Does the plan have an EISF Requirement

Request exceptions:

☐ Relief from extraordinarily difficult site conditions

Is the site exempt from detention requirements?

No

## SITE AND LOCATION

Site \*

1200 1ST Street NE

Is the

Yes

Major drainage area \*

Minor Dr

Before submitting this plan, you must attach an Application for Exemption Status or an Application for Transition Exemption Status. You can attach documents after saving this form. You can download an application for exemption at <http://ddoe.dc.gov/gar>

OK

# DATABASE

Navigation Program Directory Support

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## PLAN TYPE AND EXEMPTIONS

Transition period vesting date \*

07-15-2015 or later

Is the plan a Stormwater Management Plan? \*

Yes

Is the plan a Soil Erosion and Sediment Control Plan? \*

No

Is the plan a Green Area Ratio plan? \*

No - GAR Exemption

[Download Application for Exemption Status](#)

☐ Project solely involves reconstruction of existing PROW

SWMP number

What type of activity is Site undergoing? \*

Are there trees that are at least 55 inches in circumference?

Does the plan have an EISF Requirement

Request exceptions:

☐ Relief from extraordinarily difficult site conditions

Is the site exempt from detention requirements for the 2-year storm

No

Describe exemption from Erosion and Sediment Control\*

# DATABASE

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## PLAN TYPE AND EXEMPTIONS

ⓘ Transition period vesting date \*

07-15-2015 or later ▼

ⓘ Is the plan a Stormwater Management Plan? \*

Yes ▼

Is the plan a Soil Erosion and Sediment Control Plan? \*

No ▼

Is the plan a Green Area Ratio plan? \*

No - GAR Exemption ▼

[Download Application for Exemption Status](#)

☐ Project solely involves reconstruction of existing PROW ⓘ

SWMP number

ⓘ What type of activity is Site undergoing? \*

Major Substantial Improvement ▼

ⓘ Is Site an "AWDZ site?" \*

Non-AWDZ ▼

[Map of AWDZ](#)

Are there trees that are at least 55 inches in circumference?

▼

Does the plan have an EISF Requirement

▼

Request exceptions:

☐ Relief from extraordinarily difficult site conditions

ⓘ Is the site exempt from detention requirements for the 2-year storm

Yes ▼

Describe exemption from Erosion and Sediment Control\*

description of exemption



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[Add another Site Drainage Area to this Plan](#)

[Site Drainage Area Information](#)

## SITE DRAINAGE AREA INFORMATION

Plan	Site Drainage Area Number	Site Drainage Area ID
<input type="text" value="s5590"/>	<input type="text" value="1"/>	<input type="text" value="s5590-1"/>
<input type="checkbox"/> Public Right of Way		
Type of activity Site is undergoing	Is Site Drainage Area in the AWDZ?	SWRv rain event (in)
<input type="text" value="Major Substantial Improvement"/>	<input type="text" value="Non-AWDZ"/>	<input type="text" value="0.8"/>
Is the Site Drainage Area in the CSS?	Site Drainage Area major drainage basin	Site minor drainage basin
<input type="text" value="Yes"/>	<input type="text" value="Anacostia"/>	<input type="text" value="-Not Known-"/>
Does the Site Drainage Area drain directly, or through the MS4 directly to C&O canal, Tidal Anacostia, Potomac, Washington Ship Channel without first discharging to a tributary?		
<input type="text" value="Yes"/>		

## MAJOR SUBSTANTIAL IMPROVEMENT ACTIVITY

Total building footprint included in Major Substantial Improvement activity in this Site Drainage Area

	Total (square feet)	Natural land cover	Compacted land cover	Impervious land cover	BMP Land Cover
Post project	<input type="text" value="5000"/>	<input type="text"/>	<input type="text"/>	<input type="text" value="5000"/>	<input type="text"/>
Pre project	<input type="text" value="5000"/>	<input type="text"/>	<input type="text"/>	<input type="text" value="5000"/>	<input type="text"/>

## SWRv AND WQTV

	Cubic feet	Gallons
Site Drainage Area SWRv	<input type="text" value="317"/>	<input type="text" value="2369"/>

### GENERAL BMP INFORMATION

Plan Number s5590	Site Drainage Area ID s5590-1	BMP number 1	BMP ID number s5590-1-1
BMP X Coordinate	BMP Y Coordinate	BMP installation date	
BMP Group * Rainwater Harvesting	BMP type * Rainwater harvesting -	BMP sub-type	
BMP Name			
Did DDOE help pay for this BMP?			
No			

### CONTRIBUTING DRAINAGE AREA

In this section, indicate the area that contributes directly to this BMP. Do not include area that contributes first to an upstream BMP.

☐ CDA includes area outside the authority of the site owner

	Total area (square feet)	Natural land cover	Compacted land cover	Impervious land cover	BMP land cover
Post project	5000			5000	
Pre project	5000			5000	

### BMP RETENTION AND TREATMENT ACHIEVED

Rainwater Harvesting Calculator

BMP storage volume (cubic feet)	Size of Rainwater Harvesting Practice (cubic feet)		
Maximum volume received by BMP (cubic feet)	Retention volume achieved (cubic feet)	Potential retention volume remaining (cubic feet)	Additional treatment volume (cubic feet)
673	0	673	0
How is stormwater used?			
<input type="checkbox"/> Irrigation	<input type="checkbox"/> Flushing toilets/urinals	<input type="checkbox"/> Laundry	
<input type="checkbox"/> Cooling towers	Other uses		

Use the rainwater harvesting calculator to determine retention value

$f_x$ 

## 1 DISTRICT OF COLUMBIA RAIN/WATER HARBOR ESTING STORAGE VOLUME CALC SECTOR

## 2 Input

3	STORM EVENT
---	-------------

[illegible]

## 6 CONTRIBUTING DRAINAGE AREA (CDA)

[illegible]

## 9 IRRIGATION

[illegible]

13	Does the irrigation system have smart controls (e.g. soil moisture sensor shutoff)? If no, leave unchecked.								<input type="checkbox"/> Yes
14									

15 Enter the average weekly irrigation application rate in inches/week for each month throughout the year (inches/week)

16	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sept	Oct	Nov	Dec
----	-----	-----	-----	-----	-----	-----	-----	-----	------	-----	-----	-----

19 **INDOOR DEMAND - FLUSHING TOILETS/URINALS**

[illegible]

21	How many people will use the building? (# people)					
----	---	--	--	--	--	--

[illegible]

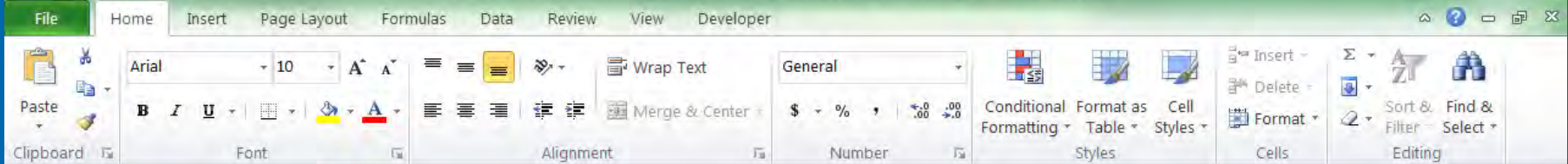
	Title/New Category
	Required Entry value
	Alternate Category E
	Final Category Value

Required Entry value

Alternate Category E

Final Category Value



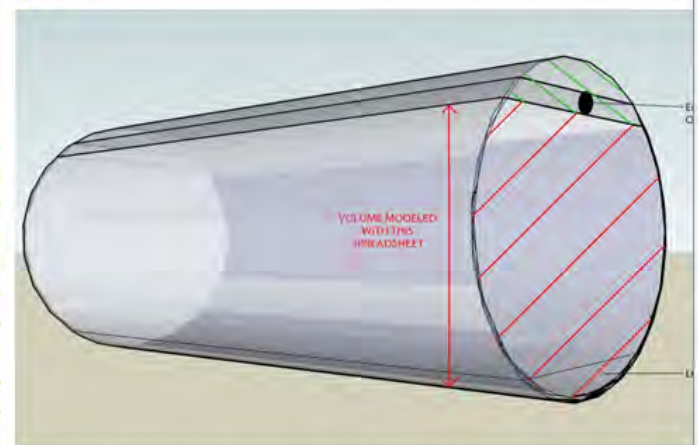


R57

fx

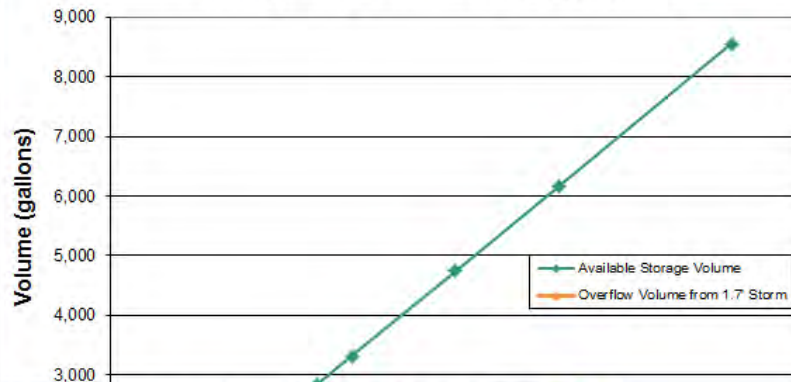
## Storage Volume Summary: Results for a P" Storm, where P" = 1.7"

	Cistern Volume (gallons)	Average Volume in Cistern (1977-2007)	Overflow Volume caused by 1.7" Storm (gallons)	Available Storage Volume (gallons)	Available Storage Volume (Sv) (cubic feet)
5					
6	500	25	0	475	64
7	1,000	50	0	950	127
8	1,500	75	0	1,425	191
9	2,000	100	0	1,900	254
10	2,500	125	0	2,375	318
11	3,000	150	0	2,850	381
12	3,500	175	0	3,325	445
13	5,000	250	0	4,750	635
14	6,500	325	0	6,175	826
15	9,000	450	0	8,550	1143



Note: Cistern Volume does not include detention for larger storm events.  
Detention volume that will be drawn down after each storm event should be m

Cistern Volume and Available Storage Volume



Instructions Input Storage Volume Results

Ready

80%



# Public Right of Way

# Public Right of Way

- Meet requirements to the Maximum Extent Practicable (MEP)
- “Type 1” roadway reconstruction projects
  - Submit at 30%, 65%, 90%, and final design phases
- “Type 2” parcel-based projects

Type 1

6. Click "Save"

## SITE INFORMATION

Address Format \*

Block

Address on building permit application \*

Block number \*

Street name \*

Street type \*

Quadrant \*

Description of location \*

## SITE OWNER

Site Owner/Manager

Make a Selection...

## LOCATION

Find Storm Sewer System

Find coordinates, square, suffix, and lot

1

Find Major and Minor Drainage Areas

Find assessed value

Find zone

1

Find Soil Type

1

Flood Zone Determination Tool

X coordinate

Y coordinate

Storm sewer system \*

Major drainage area \*

Minor drainage area \*

Make a Selection...

Ward

Soil type

Assessed building value

Square

Suffix

Lot



https://octo.quickbase.com/up/bjxxxccfp/g/rb6/eg/va/viewfc

DDOE Stormwater Database

FileEditViewFavoritesToolsHelp

6. Click "Save"

Save

[Return](#)

## PLAN TYPE AND EXEMPTIONS

Transition period vesting date \*

07-15-2015 or later

Is the plan a Stormwater Management Plan? \*

Yes

Is the plan a Soil Erosion and Sediment Control Plan? \*

Yes

Is the plan a Green Area Ratio plan? \*

No - GAR does not apply to this property

☒ Project solely involves reconstruction of existing PROW

Design phase\*

30%  
65%  
90%  
Final

SWMP number

What type of activity is Site undergoing? \*

Are there trees that are at least 55 inches in circumference?

Does the plan have an EISF Requirement

Request exceptions:

☐ Relief from extraordinarily difficult site conditions

☐ Exception to 25-foot buffer

Is the site exempt from detention requirements for the 2-year storm

No

## SITE AND LOCATION

Site \*

0 First Street NE

Is the entire site in the CSS? \*

Yes

Major drainage area \*

Anacostia

Minor Drainage Area \*

-Not Known-

## LAND COVER

Total post project area (square feet)

0

Natural

Compacted

Impervious

BMP

Total pre project area (square feet)

0

Natural

Compacted

Impervious

BMP

Type 2



# STORMWATER DATABASE

Welcome, Project

[Log Out](#)

Navigation

Program Directory

Support

Save

[Return](#)

Once the Site Drainage Area is added, you can review your plan information to see the total land cover, retention requirements, and retention achieved for all of your Site Drainage Areas combined.

Plan [s5590](#)

Site Drainage Area  
Number 3

Site Drainage Area  
ID s5590-3

- ☒ Site Drainage Area is in the Public Right of Way
- ☒ MEP process used [i](#)

Type of activity  
Site Drainage  
Area is  
undergoing  
Major Substantial Improvement

Is Site Drainage  
Area in the AWDZ? Non-AWDZ

[i](#) SWRv rain event  
(in) 1.2

Is the Site  
Drainage Area in  
the CSS? Yes

Site Drainage Area  
major drainage  
basin Anacostia

Site Drainage Area  
minor drainage  
basin -Not  
Known-

[i](#) Is the entire  
Site Drainage  
Area exempt  
from detention  
requirements for  
the 2-year storm?

No [v](#)

## MAJOR SUBSTANTIAL IMPROVEMENT ACTIVITY

Only include area within the limits of disturbance (including the building footprint)

	Total (square feet)	<a href="#">i</a> Natural land cover	<a href="#">i</a> Compacted land cover	<a href="#">i</a> Impervious land cover	<a href="#">i</a> BMP Land Cover
Post project	1500	<input type="text"/>	<input type="text"/>	1000	500
Pre project	1500	<input type="text"/>	<input type="text"/>	1500	<input type="text"/>



Save

[Return](#)

[View printer-friendly version](#)

Once the BMP is added, you can review your Site Drainage Area or Plan information to see the total retention achieved and the progress toward meeting requirements.

## GENERAL BMP INFORMATION

Plan Number <a href="#">s5590</a>	Site Drainage Area ID <a href="#">s5590-3</a>	BMP number 1	BMP ID number s5590-3-1
BMP X Coordinate <input type="text"/>	BMP Y Coordinate <input type="text"/>	BMP installation date	
BMP Group * Permeable Pavement	BMP type * Pervious concrete - Enhanced	BMP sub-type Enhanced	
BMP Name <input type="text"/>			
Did DDOE help pay for this BMP? No			

## CONTRIBUTING DRAINAGE AREA

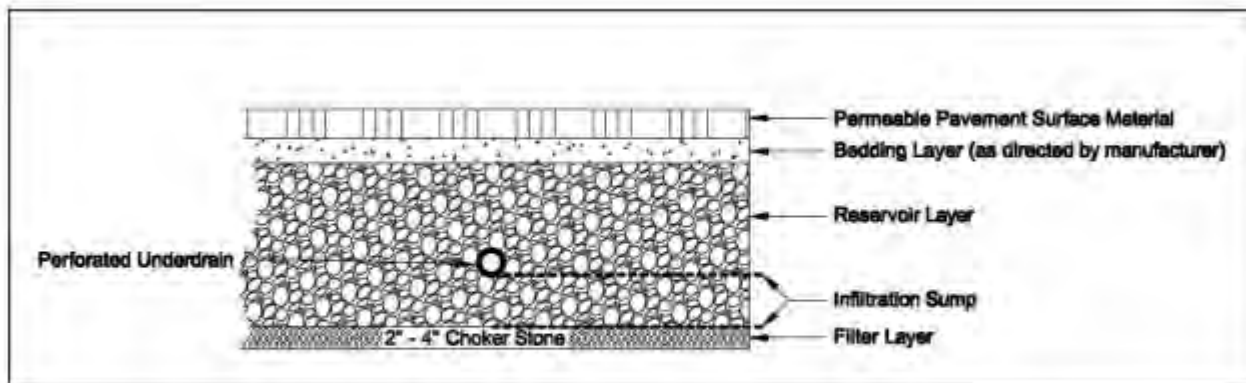
In this section, indicate the area that contributes directly to this BMP. Do not include area that contributes first to an upstream BMP.

	Total area (square feet)	Natural land cover	Compacted land cover	Impervious land cover	BMP land cover
Post project	500	<input type="text"/>	<input type="text"/>	<input type="text"/>	500
Pre project	500	<input type="text"/>	<input type="text"/>	500	<input type="text"/>

## BMP RETENTION AND TREATMENT ACHIEVED

☐ Enhanced practice with an underdrain

BMP storage volume (cubic feet) <input type="text"/>			
Maximum volume received by BMP (cubic feet) 67	Retention volume achieved (cubic feet) 0	Potential retention volume remaining (cubic feet) 67	Additional treatment volume (cubic feet) 0



**Figure 3.14** Cross section of an enhanced permeable pavement design with an underdrain.

Page 80 of the Stormwater  
Management Guidebook  
([doee.dc.gov/swguidebook](http://doee.dc.gov/swguidebook))

Save

[Return](#)

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Once the BMP is added, you can review your Site Drainage Area or Plan information to see the total retention achieved and the progress toward meeting requirements.

## GENERAL BMP INFORMATION

Plan Number

[s5590](#)

Site Drainage Area ID

[s5590-3](#)

BMP number

1

BMP ID number

s5590-3-1

BMP X Coordinate

BMP Y Coordinate

BMP installation date

BMP Group \*

Permeable Pavement



BMP type \*

Pervious concrete - Enhanced



BMP sub-type

Enhanced

BMP Name

Did DDOE help pay for this BMP?

No



## CONTRIBUTING DRAINAGE AREA

In this section, indicate the area that contributes directly to this BMP. Do not include area that contributes first to an upstream BMP.

	Total area (square feet)	Natural land cover	Compacted land cover	Impervious land cover	BMP land cover
Post project	500	<input type="text"/>	<input type="text"/>	<input type="text"/>	500
Pre project	500	<input type="text"/>	<input type="text"/>	500	<input type="text"/>

## BMP RETENTION AND TREATMENT ACHIEVED

☒ Enhanced practice with an underdrain

BMP storage volume (cubic feet)

60

Infiltration sump storage volume  
(cubic feet)

30

Maximum volume received by BMP  
(cubic feet)

67

Retention volume achieved (cubic  
feet)

53

Potential retention volume remaining  
(cubic feet)



15

Additional treatment volume  
(cubic feet)

8

Retention volume achieved by BMPs 53 393

Volume treated 8 56

Full Report		More ▾	1 BMP					
	▼ BMP ID number	BMP Name	BMP Type and Subtype	Retention volume achieved (cubic feet)	Additional treatment volume (cubic feet)	Vehicular access volume addressed?	Downstream BMP ID Numbers	Total Post project vehicular access area
 	s5590-3-1	s5590-3-1	Pervious concrete - Enhanced with underdrain	53	8	N/A		
TOT				53	8			

## ➤ DRAINAGE AREA COMPLIANCE

	Cubic feet	Gallons
Retention volume remaining	90	673

50% of SWRV retained? Runoff from vehicular access areas sufficiently retained or treated?  
No N/A

Is treatment required? Minimum requirements for drainage area met?  
No N/A

Note about SWRV

✓ MEP process used ⓘ

☐ Can generate SRCs from PROW?

☐ DDOE approval of MEP process



RETENTION AND TREATMENT REQUIREMENTS

Site SWRv (cubic feet) 143  
Site SWRv (gal) 1066

RETENTION AND TREATMENT ACHIEVED

Total on-site retention volume achieved by BMPs (cubic feet)	Total on-site retention volume achieved by BMPs (gal)
53	393
Site retention volume remaining (cubic feet)	Site retention volume remaining (gal)
0	0
Total volume treated (cubic feet)	Total volume treated (gal)
8	56

SUMMARY, OFFv, AND SRCs

At least 50% of SWRv for the Site Retained  
No

Offv  
0

PROJECT DESCRIPTION

Project Name  
Property Class  
Total cost of construction  
Cost of building renovation  
Submission Type  
Project Description  
Is this a PUD project

Notify DDOE of removal of BMPs from pre-existing plans

CONSTRUCTION INFORMATION

Edit construction information

Engineering company

Project engineer  
Project engineer email

# Unregulated Plans

Save

[Return](#)

## PLAN TYPE AND EXEMPTIONS

Transition period vesting date \*

07-15-2015 or later

Is the plan a Stormwater Management Plan? \*

Yes

Is the plan a Soil Erosion and Sediment Control Plan? \*

Yes

Is the plan a Green Area Ratio plan? \*

Yes

☐ Project solely involves reconstruction of existing PROW

SWMP number

What type of activity is Site undergoing? \*

Unregulated

Are there trees that are at least 55 inches in circumference?

Does the plan have an EISF Requirement

Request exceptions:

☐ Relief from extraordinarily difficult site conditions

☐ Exception to 25-foot buffer

Is the site exempt from detention requirements for the 2-year storm

No

## SITE AND LOCATION

Site \*

1200 1ST Street NE

Is the entire site in the CSS? \*

Yes

Major drainage area \*

Anacostia

Minor Drainage Area \*

-Not Known-

## PROJECT DESCRIPTION

Project Name

Property Class

[Edit This Record](#) [←Return](#)

[View printer-friendly version](#)

[Add another Site Drainage Area to this Plan](#)

[Site Drainage Area Information](#)

## SITE DRAINAGE AREA INFORMATION

Plan	Site Drainage Area Number	Site Drainage Area ID
<a href="#">4869</a>	1	4869-1
<input type="checkbox"/> Public Right of Way		
Type of activity Site is undergoing	Is Site Drainage Area in the AWDZ?	SWRv rain event (in)
Unregulated		0
Is the Site Drainage Area in the CSS?	Site Drainage Area major drainage basin	Site minor drainage basin
Yes	Anacostia	-Not Known-
Is the entire Site Drainage Area exempt from detention requirements for the 2-year storm?		
No		

## LAND COVER

	Total (square feet)	Natural land cover	Compacted land cover	Impervious land cover	BMP Land Cover
Post project	4000		1000	1000	2000
Pre project	4000		2000	2000	

## BMPs

[Add BMP to this Site Drainage Area](#)







## BMPs





Add BMP to this Site Drainage Area

Edit BMP ID Numbers

	Cubic feet	Gallons
Retention volume achieved by BMPs	400	2992
Volume treated	0	0

Full Report	More	2 BMPs						
	BMP ID number	BMP Name	BMP Type and Subtype	Retention volume achieved (cubic feet)	Additional treatment volume (cubic feet)	Vehicular access volume addressed?	Downstream BMP ID Numbers	Total Post project vehicular access area
 	4869-1-1	4869-1-1	Stormwater planters - Enhanced	250	0	N/A		
 	4869-1-2	4869-1-2	Infiltration basin	150	0	N/A		
TOT				400	0			

## NET SRCs FOR UNREGULATED SITES

Pre-project land cover retention (cubic feet)	 Pre-project BMP retention (cubic feet)	Total pre-project retention (cubic feet)	
227		227	
Post-project land cover retention (cubic feet)	Retention volume achieved by BMPs (cubic feet)	Total post-project retention (cubic feet)	
128	400	528	
 Total additional retention proposed (cubic feet)	Total additional retention proposed (gal)	 SRC Ceiling (gal)	 Maximum SRCs (gal)
301	2250	2543	2543
Net SRC Eligibility (gal)			
2250			

More than one type of activity

# More Than One Type of Activity

## Example 4

Building 1 Footprint = 4,000 square feet Construction cost $\geq$ 50% assessed value of building	Land Disturbance = 5,000 square feet
--	---

Retention Standard for 4,000 square feet (Building 1) 0.8 inches  
Retention Standard for 5,000 square feet (Land Disturbance) 1.2 inches

## Example 5

Building 1 Footprint = 4,000 square feet Construction cost $\geq$ 50% assessed value of building	Land Disturbance = 5,000 square feet	Public Right-of-Way (PROW) Land Disturbance = 1,000 square feet
--	---	---

Retention Standard for 4,000 square feet (Building 1) 0.8 inches  
Retention Standard for 5,000 square feet (Land Disturbance) 1.2 inches  
Retention Standard for 1,000 square feet (PROW Land Disturbance) 1.2 inches to the maximum extent practicable (MEP)

Note: Stormwater from PROW must be managed.

## Example 6

Building 1 Footprint = 4,000 square feet Construction cost $\geq$ 50% assessed value of building	Land Disturbance = 4,000 square feet	Public Right-of-Way (PROW) Land Disturbance = 1,000 square feet
--	---	---

Retention Standard for 4,000 square feet (Building 1) 0.8 inches  
Retention Standard for 4,000 square feet (Land Disturbance) 1.2 inches  
Retention Standard for 1,000 square feet (PROW Land Disturbance) 1.2 inches to the MEP

Note: Stormwater from PROW must be managed.

Examples from *Clarifications to the 2013 Rule and Guidebook* available at [doee.dc.gov/swregs](http://doee.dc.gov/swregs) and [doee.dc.gov/swguidebook](http://doee.dc.gov/swguidebook)

Save

[Return](#)

## PLAN TYPE AND EXEMPTIONS

Transition period vesting date \*

07-15-2015 or later

Is the plan a Stormwater Management Plan? \*

Yes

Is the plan a Soil Erosion and Sediment Control Plan? \*

Yes

Is the plan a Green Area Ratio plan? \*

Yes

☐ Project solely involves reconstruction of existing PROW

SWMP number

What type of activity is Site undergoing? \*

More than one type of activity

Is Site an "AWDZ site?" \*

Partially AWDZ

[Map of AWDZ](#)

Are there trees that are at least 55 inches in circumference?

Does the plan have an EISF Requirement

Request exceptions:

☐ Relief from extraordinarily difficult site conditions

☐ Exception to 25-foot buffer

Is the site exempt from detention requirements for the 2-year storm

No

## SITE AND LOCATION

Site \*

1200 1ST Street NE

Is the entire site in the CSS? \*

No

Major drainage area \*

More than one major drainage basin

Minor Drainage Area \*

More than one minor drainage basin

## PROJECT DESCRIPTION



Save

[Return](#)

Once the Site Drainage Area is added, you can review your plan information to see the total land cover, retention requirements, and retention achieved for all of your Site Drainage Areas combined.

Plan

[s5623](#)

Site Drainage Area Number

1

Site Drainage Area ID

s5623-1

☐ Site Drainage Area is in the Public Right of Way

Type of activity Site Drainage Area is undergoing\*

Mix of Major Land Disturbing and Major Substantial Improvement

Is Site Drainage Area in the AWDZ?\*

SWRv rain event (in)

Is the Site Drainage Area in the CSS?\*

No

Site Drainage Area major drainage basin

Site drainage area minor drainage basin

Make a Selection...

Is the entire Site Drainage Area exempt from detention requirements for the 2-year storm?\*

No

## MAJOR LAND DISTURBING ACTIVITY

Only include area within the limits of disturbance

	Total (square feet)	Natural land cover	Compacted land cover	Impervious land cover	BMP Land Cover	Vehicular Access Area
Post project	3000		1000	1000	1000	
Pre project	3000		3000			

## MAJOR SUBSTANTIAL IMPROVEMENT ACTIVITY

Only include area within the limits of disturbance (including the building footprint)

	Total (square feet)	Natural land cover	Compacted land cover	Impervious land cover	BMP Land Cover	Vehicular Access Area
Post project	10,000			10000		
Pre project	10,000			10000		

	Total (square feet)	Natural land cover	Compacted land cover	Impervious land cover	BMP Land Cover	Vehicular Access Area
Post project	10,000			10,000		
Pre project	10,000			10,000		

▼

SWRv AND WQTV

	Cubic feet	Gallons
Site Drainage Area SWRv	1007	7530
Site Drainage Area WQTV	644	4815
Treatment requirement for vehicular access area	0	0

▼

BMPs

Add BMP to this Site Drainage Area

▼

DRAINAGE AREA COMPLIANCE

	Cubic feet	Gallons
Retention volume remaining	1007	7530
Volume remaining to treat 50% of the SWRv	503	3765
Volume remaining to treat WQTV	644	4815

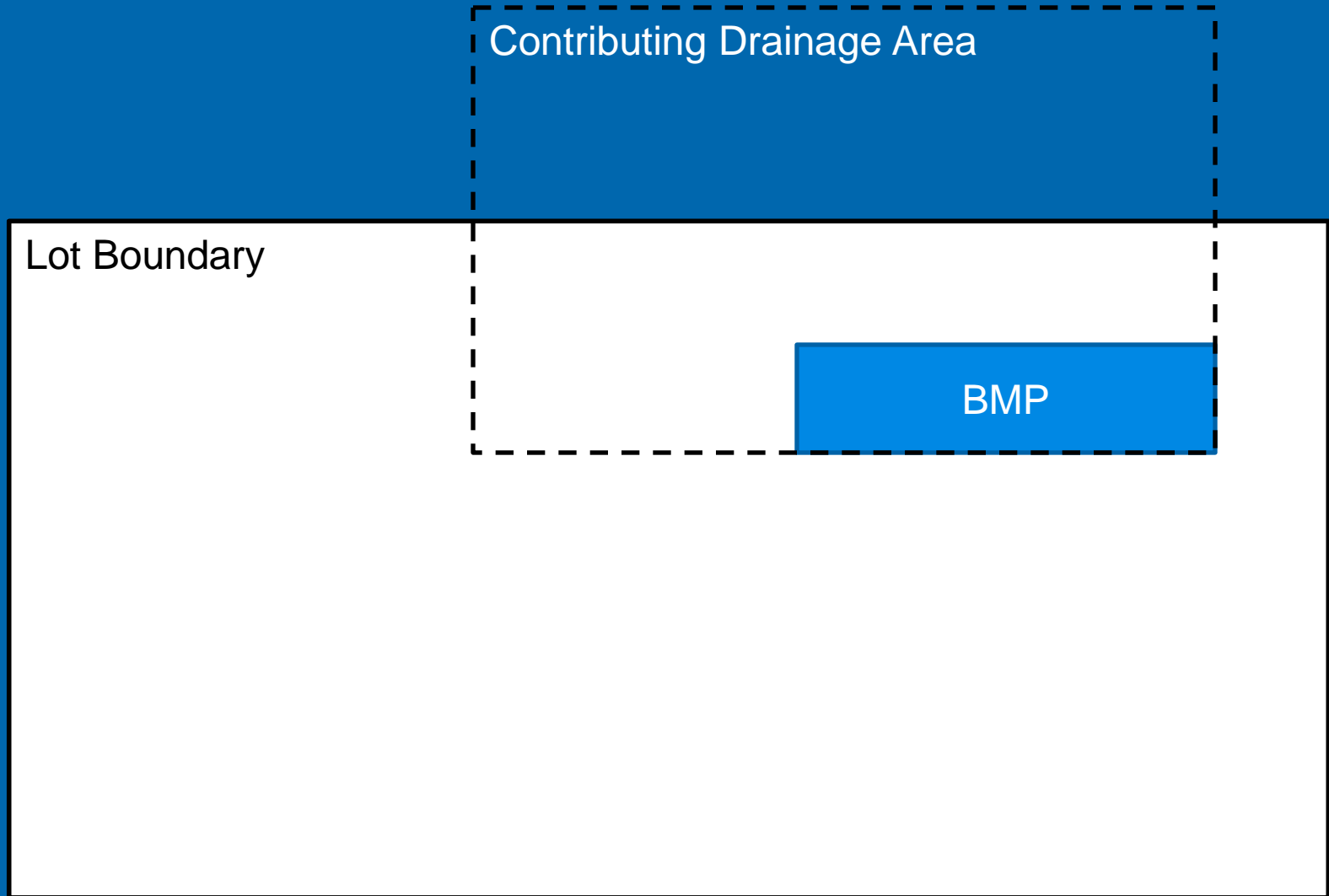
# BMP Contributing Drainage Area from an Off-Site Area

# Off-Site BMP Contributing Drainage Area

- For parcels, retaining volume from an off-site area does not contribute to meeting the SWRv.
- Retaining volume from an off-site area may be eligible for Stormwater Retention Credit (SRC) certification







[View printer-friendly version](#)

Once the BMP is added, you can review your Site Drainage Area or Plan information to see the total retention achieved and the progress toward meeting requirements.

## GENERAL BMP INFORMATION

Plan Number <a href="#">s5623</a>	Site Drainage Area ID <a href="#">s5623-1</a>	BMP number 1	BMP ID number s5623-1-1
BMP X Coordinate <input type="text"/>	BMP Y Coordinate <input type="text"/>	BMP installation date	
BMP Group * Open Channel	BMP type * Grass channel - Amended soils	BMP sub-type Amended soils	
BMP Name <input type="text"/>			
Did DDOE help pay for this BMP? No			

## CONTRIBUTING DRAINAGE AREA

In this section, indicate the area that contributes directly to this BMP. Do not include area that contributes first to an upstream BMP.

☐ CDA includes area outside the authority of the site owner

	Total area (square feet)	Natural land cover	Compacted land cover	Impervious land cover	BMP land cover	Vehicular access area
Post project	6000	<input type="text"/>	<input type="text"/>	3000	3000	<input type="text"/>
Pre project	6000	<input type="text"/>	<input type="text"/>	6000	<input type="text"/>	<input type="text"/>

## BMP RETENTION AND TREATMENT ACHIEVED

BMP storage volume (cubic feet) 500	Maximum volume received by BMP (cubic feet) 808	Retention volume achieved (cubic feet) 150	Potential retention volume remaining (cubic feet) 658	Additional treatment volume (cubic feet) 0	Vehicular access volume addressed? N/A
--	--	---	--	---	---

SJ023

SJ023-1

SJ023-1-1

BMP X Coordinate

BMP Y Coordinate

BMP installation date

BMP Group \*

BMP type \*

BMP sub-type

Amended soils

BMP Name

Did DDOE help pay for this BMP?

## CONTRIBUTING DRAINAGE AREA

In this section, indicate the area that contributes directly to this BMP. Do not include area that contributes first to an upstream BMP.

☒ CDA includes area outside the authority of the site owner

	Total area (square feet)	Natural land cover	Compacted land cover	Impervious land cover	BMP land cover	Vehicular access area
Post project	6000	<input type="text"/>	<input type="text"/>	3000	3000	<input type="text"/>
CDA within the authority of site owner		<input type="text"/>	<input type="text"/>	2000	3000	<input type="text"/>
Pre project	6000	<input type="text"/>	<input type="text"/>	6000	<input type="text"/>	<input type="text"/>

## BMP RETENTION AND TREATMENT ACHIEVED

BMP storage volume (cubic feet)

Maximum volume received by BMP  
(cubic feet)

808

Retention volume achieved  
(cubic feet)

150

Potential retention volume  
remaining (cubic feet)

658

Additional treatment  
volume (cubic feet)

0

Vehicular access  
volume addressed?

N/A

Maximum volume received by BMP  
from outside authority of site owner

135

Retention volume achieved from  
outside authority of site owner

25

Potential volume remaining from  
outside authority of site owner

110

Volume treated from outside authority of site  
owner

0

644

Treatment requirement  
for vehicular access area

0

0

## BMPs

Add BMP to this Site Drainage Area

Edit BMP ID Numbers



	Cubic feet	Gallons	
Retention volume achieved by BMPs	150	1122	Retention volume achieved from outside authority of site owner 25
Volume treated	0	0	Volume treated from outside authority of site owner 0

Net retention eligible for meeting onsite obligations  
(cubic feet)

125

Net volume eligible for treatment obligations (cubic  
feet)

0

Full Report	More	1 BMP						
	BMP ID number	BMP Name	BMP Type and Subtype	Retention volume achieved (cubic feet)	Additional treatment volume (cubic feet)	Vehicular access volume addressed?	Downstream BMP ID Numbers	Total Post project vehicular access area
 	s5623-1-1	s5623-1-1	Grass channel - Amended soils	150	0	N/A		
TOT				150	0			

## DRAINAGE AREA COMPLIANCE

	Cubic feet	Gallons
Retention volume remaining	882	6595
Volume remaining to treat 50% of the SWRV	378	2830
Volume remaining to treat WQTV	644	4815



# Erosion and Sediment Control and GAR plans

## ▾ SITE INFORMATION

For sites undergoing a regulated activity, enter the address on the building permit application.

Address Format \*

Address ▾

Input Address

1200 first st ne

[Get Address Details](#)

Address number \*

1200

Street name \*

1ST

Street type \*

Street ▾

Quadrant \*

NE ▾

## ▾ SITE OWNER

Site owner/manager name

Owner Name

Address line 1

123 Test Street NW

Address line 2

Suite 4

City

Washington

State

DC ▾

Zip

20000

Email

Phone

ext.

## ▾ LOCATION

[Find Storm Sewer System](#)

[Find coordinates, square, suffix, and lot](#)

[Find Major and Minor Drainage Areas](#)

[Find assessed value](#)

[Find zone](#)

[Find Soil Type](#)

[?](#)

[Flood Zone Determination Tool](#)

Save

[←Return](#)

### PLAN TYPE AND EXEMPTIONS

Is the plan a Stormwater Management Plan? \*

No

Is the plan a Soil Erosion and Sediment Control Plan? \*

Yes

Is the plan a Green Area Ratio plan? \*

Yes

Are there trees that are at least 55 inches in circumference?

Does the plan have an EISF Requirement

Request exceptions:

☐ Exception to 25-foot buffer

### SITE AND LOCATION

Site \*

1200 1ST Street NE

Is the entire site in the CSS? \*

Yes

Major drainage area \*

Anacostia

Minor Drainage Area \*

-Not Known-

### LAND COVER

Total post project area (square feet)

0

Natural

Compacted

Impervious

BMP

Total pre project area (square feet)

0

Natural

Compacted

Impervious

BMP

### PROJECT DESCRIPTION

Project Name

Property Class

Total cost of construction

Cost of building renovation

Submission Type

# Additional Information

Regan Wilhelm  
Regan.wilhelm@dc.gov  
202-671-5004

To access DOEE's Surface and Groundwater System, visit  
[doee.dc.gov/sgs](https://doee.dc.gov/sgs).

For DOEE's stormwater management regulations and  
related information, visit [doee.dc.gov/swregs](https://doee.dc.gov/swregs).

