



Johnston County Public Utilities Homeowner Lot Level Stormwater Application

To be Completed by Staff:
Date Received: _____
Project #: _____

Use the Johnston County Homeowner's Guide to Stormwater, Buffers and Lot Drainage to develop the lot level stormwater plan. All dimensions should be in square feet.

Applicant Information

1. First & Last Name:	
2. Phone:	3. Email:

Site Information

4. Subdivision Name:		
5. Street Address of Property:		
6. City:	7. State:	8. Zip
9. PIN:	10. Deed Book & Page:	
11. Impervious Area Limit From Recorded Plat (ft ²):		12. Existing Impervious Area (ft ²): (Survey may be needed)
13. Proposed Impervious Area Addition (ft ²):		14. Proposed Total Impervious Area (ft ²):
15. Does subdivision have bank of excess impervious Area? (Contact Developer or Homeowners Association if unsure) _____ Yes _____ No		
16. If no, what treatment stormwater measure is proposed? Circle one rain garden rain barrel other _____		

Rain Garden

17. Required Treatment Area (ft ²):	18. Proposed Treatment Area (ft ²):
19. Rain garden length, width (ft):	

Rain Barrel

20. Treatment volume required (gallons):	21. Size of each rain barrel (gallons):
22. Number of rain barrels:	

Other (type): _____

23. Required Treatment Area (ft ²):	24. Proposed Treatment Area (ft ²):
25. Attach specific design by engineer	

Engineer/Consultant Information (If applicable)

26. First & Last Name:		27. Company:
28. Mailing Address:		
29. City:	30. State:	31. Zip:
32. Phone:	33. Email:	

Is the site plan and design for the proposed stormwater measure attached? ____ Yes ____ No

The stormwater measure must be located in a new drainage easement, and the new site plat re-recorded with the easement and Operation & Maintenance Agreement Statement on it. Routine inspections must be conducted by the property owner to ensure the stormwater measure is still functioning properly. Maintenance must be performed as necessary for the stormwater measure to remain functional.

I hereby certify that all information contained within this Homeowner Lot Level Stormwater application is accurate and complete to the best of my knowledge and conforms to Johnston County's design criteria. Johnston County has the right to inspect all stormwater facilities on this tract of land. I assume responsibility for inspections, installation, maintenance and operation of all stormwater measures in accordance with the Homeowner lot level stormwater plan enclosed. I agree to routinely inspect the stormwater measure(s) to ensure they are functioning and will maintain or repair the measure(s) as needed.

Typed or Printed Owner Name

Signature of Owner

Date

Email the completed application package to:

Attn: Jessica Batten

Email: Jessica.Batten@Johnstonnc.gov

Email Subject: Homeowner Stormwater Application – Address

A complete Application Package includes:

- 1) Homeowner Lot Level Stormwater Application
 - 2) Site Plan showing the location and size of the proposed stormwater measure
 - 3) The Homeowner Design worksheet for the selected measure
- OR
- 4) If the engineered option is selected, a sealed engineered design must be included.

*If you have any questions or need more information, contact the
Stormwater Administrator at 919-209-8333.*

Johnston County Public Utilities

Homeowner'

Design Worksheet

for Rain Gardens

To be Completed by Staff:
Date Received: _____
Project #: _____

Use the Johnston County Homeowner's Guide to Stormwater, Buffers and Lot Drainage and this worksheet to design your rain garden. All dimensions should be in square feet.

A. Application Address: _____

Determine the built upon area that must be treated:

B. New Built Upon Area to be treated: _____ feet square, ft²

*Put this number in
Box 13 on the
Homeowner Lot
Level Stormwater
Application form*

Find: Surface area of the rain garden using this equation:

Required surface area of the rain garden = **New Built Upon Area from B above (ft²)** x 0.1

C. Required surface area = _____ (ft²) x 0.1 = _____ (ft²)

*Put this number in
Box 17 on the
Homeowner Lot
Level Stormwater
Application form*

Determine the length and width of the bioretention area. Note that the length times the width must be equal to or greater than the required surface area calculated in C above. One of these values may be based upon site restrictions (nearness to driveways, setbacks, patio, etc.).

D. Length and width

Length = _____ ft

Width = _____ ft

*Put these dimensions in Box 19 on
the Homeowner Lot Level
Stormwater Application form*

Length _____ ft x Width _____ ft = _____ ft² which must be equal to or greater than the required surface calculated in C.

Rain Garden Operation and Maintenance Schedule

Inspect the rain garden after significant rains and perform the following if needed:

- Remove litter and debris from the rain garden area.
- Replace any dead or diseased plants.
- Replace mulch as needed.
- Repair any areas that are bare and eroding.

*Put this block on
your plat to record*

Add this to the completed application form and supporting documentation. Then email:

Attn: Jessica Batten

Email: Jessica.Batten@Johnstonnc.gov

Email Subject: Homeowner Stormwater Application – Address



Johnston County Public Utilities Homeowner' Design Worksheet for Rain Barrels

To be Completed by Staff:
Date Received: _____
Project #: _____

Use the Johnston County Homeowner's Guide to Stormwater, Buffers and Lot Drainage and this worksheet to design your rain garden. All dimensions should be in square feet. Blue boxes reference boxes on Homeowner Lot Level Stormwater Application form.

A. Application Address: _____

Determine the built upon area that must be treated:

B. New Built Upon Area to be treated: _____ feet square, ft2

Put this number in
Box 13

Find: Volume that must be captured by the rain barrel(s):

Required volume (ft3) = New Built Upon Area from B above (ft2) x 1 inch capture x $\frac{1 \text{ foot}}{12 \text{ inches}}$

C. Required volume = _____ (ft2) x 1 inch x $\frac{1 \text{ foot}}{12 \text{ inches}}$ = _____ (ft3)

Convert ft3 to gallons.

Put this number in
Box 20

Treatment volume required, gallons = Treatment volume from C above (ft3) x $\frac{7.48 \text{ gallons}}{1 \text{ ft3}}$

D. Required volume in Gallons = _____ (ft3) x $\frac{7.48 \text{ gallons}}{1 \text{ ft3}}$ = _____ gallons

Choose the size(s) of the rain barrel and determine how many are needed:

Put this number in Box
22

E. Gallons required from D ÷ capacity in gallons of each barrel = _____ number of rain barrels

Rain Barrel Operation and Maintenance Schedule

Inspect the rain barrel(s) after each significant rain event for the following:

- Empty the rain barrel storage as soon as possible after a rain.
- Check to make sure the barrel inlet isn't blocked.
- Replace barrel components that are deteriorated.

Put this block on
your plat to record

Add this to the completed application form and supporting documentation. Then email:

Attn: Jessica Batten

Email: Jessica.Batten@Johnstonnc.gov

Email Subject: Homeowner Stormwater Application – Address