



2024 MS4 Annual Report



NORFOLK STATE
UNIVERSITY

Norfolk State University

2024 MS4 Annual Report

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2024 MS4 Annual Report

prepared for

Norfolk State University

2024 MS4 Annual Report

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prepared by

Burns & McDonnell Engineering Company, Inc.

Chesapeake, Virginia

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1.0 GENERAL INFORMATION

The general information for this annual report is as follows:

1. The permittee is Norfolk State University, and the permit number is VAR040097.
2. The reporting period for which the annual status report is submitted is from July 1, 2023, to June 30, 2024.
3. The MS4 Map and the Outfall Information Table were updated on October 21, 2024 to reflect the changes to the MS4 that occurred during the FY2024 report year.
4. The dry and wet weather inspections were conducted for 22 BMPs and 12 outfalls on campus in the FY2024 reporting year.

2.0 SIGNED CERTIFICATION

"I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations."

01/16/2025

Date

Terry J. Woodhouse

Signature

Terry Woodhouse, Associate Vice President Facilities Management

3.0 MINIMUM CONTROL MEASURES

3.1 MCM 1 Public Education and Outreach

3.1.1 High Priority Issues

The following high priority issues were addressed by the permittee in the public education and outreach program:

1. BMP Inspections – Inspect BMPs on campus in accordance with Virginia Stormwater Management Handbook, Section 9.3.7 table 9.7. The stormwater BMPs help filter runoff during rain events and need to be maintained to help preserve the downstream environment.
2. Vehicle Fluids – Prevent oils and contaminants from university staff and student vehicles from contaminating stormwater runoff. The University owns and maintains several fleet vehicles and maintenance equipment that are stored on campus along with several employee and student parking lots.
3. Trash and Debris Collection and Recycling – On the NSU campus, trash and debris can collect in the stormwater BMPs, the stormwater system and eventually make its way into the Chesapeake Bay and have an impact on seagrasses and fish wildlife. Litter can have an adverse effect on the environment and needs to be stopped at its source.

The MS4 Program Plan was updated recently, the high priority issues will remain the same for the next reporting year.

3.1.2 Strategies

The following strategies were used to communicate each high priority stormwater issue:

1. NSU has hired Brightview landscaping to manage and maintain the BMPs on campus. They will perform inspections and provide training to campus staff.
2. NSU Employees will be required to make daily inspections of the areas where vehicles are stored and maintained for any fluid leaks. Vehicle maintenance has been restricted to vehicle service shops. All auto mechanics, facility workers and new staff receive storm water pollution prevention training annually and during new hire orientation.
3. Students have been advised to inspect their vehicles and report any leaks or spills to university staff. Seminars and brochures have been developed to educate the students on actions to take.

4. The University has developed emails and flyers to post around campus to promote recycling and trash pickup events.
5. The University and student organizations have been engaged in hosting campus clean up events, giving students ownership and campus pride.

The strategies used to communicate the high priority issues were adjusted to reflect the high priority issues identified in the MS4 program plan.

3.2 MCM 2 Public Involvement and Participation

3.2.1 Public Input

No input has been received from the public on the MS4 program, including stormwater complaints in this reporting period.

3.2.2 Website

The current website with the most up to date information on the University's MS4 program and stormwater initiatives can be found at the address: <https://www.nsu.edu/stormwater-pollution-prevention>.

3.2.3 Public Involvement Activities

The public involvement activities implemented by NSU include the following activities that were advertised in the Spartan E-Daily Web emails:

1. Earth Day Week: the event was posted, and Campus Announcements were sent to all participants. Students, Faculty, Staff and BrightView Landscape Services designed, constructed and planted a vegetable garden, a tree and flowers near the University Greenhouse. The Elizabeth River Project Representatives attended the event.
2. Norfolk State University had six University Student Groups totaling over 150 students and staff picking up trash and debris throughout the campus and throughout the surrounding community.
3. Norfolk State University had two University Student Groups totaling over 30 students and staff planting flowers throughout the campus.

3.2.4 Metrics and Evaluations

A report of the metric as defined for each activity and an evaluation as to whether the activity is beneficial to improving water quality is provided for each activity. These metrics will remain the same as in the previous reporting period.

1. Earth week events in collaboration with Landscape services and Elizabeth River Project Representatives will encourage future involvement in events by students.
2. Clean up events will encourage good housekeeping practices on campus.
3. Student group involvement in cleaning events will encourage other students and staff to participate in good housekeeping practices.
4. Students planting flowers on campus will help enrich the campus and encourage students to participate in more events.

3.2.5 MS4 Collaboration

1. Over one hundred students took part in research projects focused on river restoration.
2. Norfolk State University collaborated on three grants with ERP.
3. A Premier Electric Vehicle Demonstration was performed.
4. Norfolk State University received a Sustained Distinguished Performance Award for the Elizabeth River Project.
5. Students, Faculty, Staff and BrightView Landscape Services designed, constructed, and planted a vegetable garden, a tree, and flowers near the University Greenhouse for Earth Day. The Elizabeth River Project Representatives attended the event.
6. Norfolk State University had two University Student Groups totaling over thirty students and staff planting flowers throughout the campus.
7. Norfolk State University had six University Student Groups totaling over 150 students and staff picking up trash and debris throughout the campus and throughout the surrounding community.

3.3 MCM 3 Illicit Discharge Detection and Elimination

There were no illicit discharges reported or detected in this reporting year.

3.4 MCM 4 Construction Site Stormwater Runoff Control

1. Three BMPs were retrofitted in this reporting year. For the construction of the BMP retrofits, erosion and sediment control plans were developed and approved. The contractor followed the plans and the Virginia Erosion and Stormwater Management Program.
 - a. During the construction of the three BMP retrofits, 3 erosion and sediment control inspections were conducted.
 - b. No compliance or enforcement actions were necessary.
2. Outside of the three BMPs that were retrofitted, there were not any additional land disturbances on campus in the reporting period. No additional inspections for erosion and sediment control were conducted.

3.5 MCM 5 Post-Construction Stormwater Management for New Development and Development on Prior Developed Lands

1. Dry and wet weather inspections were performed for 22 BMPs and 12 outfalls on campus.
 - a. Most of the BMPs were in good condition with Brightview Landscaping maintaining them, however several of the BMPs will require maintenance. The University has been advised of the necessary maintenance.
 - i. Some of the bioretentions and micro-bioretentions will need maintenance due to a lack of required vegetation, mulch or filter media, sediment blockage near outfalls, or erosion along the side slopes.
 - ii. Two of the extended detention ponds will require maintenance due to sediment and debris, evidence of clogging, and more.
 - iii. The Spartan Suites infiltration BMP is being encroached upon by the parking lot and shows evidence of erosion around an inlet.
 - iv. The Hamm Fine Arts North grass channel will require maintenance because of erosion, and unhealthy or dead vegetation.
2. Most of the outfalls that are in the ditch adjacent to the rail tracks were not able to be located or were difficult to inspect as the ditch in which they are situated is very overgrown. As the University is not the owner of these outfalls, it has been recommended that they contact the owner to clear the outfalls.
3. Brightview Landscape serviced 3 BMPs on campus during this period. BMPs were cut and refreshed during September 2023.
4. All BMPs on campus have been submitted in the DEQ Warehouse including the three retrofits done in this reporting period.

3.6 MCM 6 Pollution Prevention and Good Housekeeping for Facilities Owned or Operated by the Permittee Within the MS4 Service Area

1. Brightview Landscape has been hired to maintain campus grounds. Brightview completes all BMP and Outfall inspections. The Director of Grounds manages and reviews all inspections and works with Brightview to eliminate concerns and deficiencies identified via Brightview's inspections.
2. All high priority facilities were reviewed during the FY2024 reporting period. No other high priority facilities on campus required SWPPP coverage.
3. No updates to the current facilities SWPPP were made during this reporting year.
4. No high priority facilities were delisted during the reporting year.
5. Three of the BMPs on campus were retrofitted in this reporting year.

6. A Stormwater Standard Operating Procedure was implemented in this reporting period.
7. Training held during the reporting period:
 - a. Stormwater Pollution Prevention training is performed with all New Hire and Wage employees during New Hire Orientation Training. Training courses occur on the 10th and 24th of each month. Training is facilitated via ZOOM.
 - b. During the reporting period 135 University employees, 31 Facilities employees, and 32 Resident Assistants and Graduate Assistants received the Stormwater Pollution Prevention training.
8. The objective of the training events is to distribute information on stormwater and bring awareness to prevent Stormwater Pollution.

4.0 EVALUATION OF MS4 PROGRAM IMPLEMENTATION

4.1 MCM Reviews

The updated MS4 program from 2021 has been implemented by NSU and their maintenance staff due to a DEQ Audit in the early part of 2021. Most of the MCMs were changed to align with the minimum control measures described in Part I E of the General Permit.

4.1.1 MCM 1 Public Education and Outreach

The high priority issues from the reporting year will be a continued effort by the University for the next reporting year.

1. University BMP inspection continues to be a high priority. Ongoing training for staff will continue for BMP maintenance. Outreach and education for students about stormwater runoff will also continue.
 - a. BMP's and Outfalls are managed by Brightview Landscape Service. Brightview provides training for all affected staff and shares results with Mr. Ward (Director of Grounds).
2. Waste Minimization will continue to be a high priority issue for the University.
 - a. NSU has renewed their partnership with Bay Disposal to provide additional large roll off containers to collect and dispose of major trash and debris items along with additional smaller trash containers that are monitored weekly by the NSU Grounds department.
 - b. NSU has renewed their partnership with BrightView Landscape services that provide additional certified staff resources that address daily debris removal.

- c. BrightView Landscape Services also provided certified staffing resources that implement pesticide and herbicide application as required.
 - d. NSU has a partnership with an Environmental Services Contractor that provides daily monitoring and removal of trash inside of all University Buildings and Facilities throughout the campus.
3. Vehicle fluid leaks will continue to be monitored on campus.
- a. Information is facilitated via the NSU website and various screens in the Student Center Building that show a PowerPoint stressing the importance of recycling fluids.

4.1.2 MCM 2 Public Involvement and Participation

1. 95% of Campus Stormwater Drains are marked with caps indicating destination.
2. The Elizabeth River Star Program is an on-going program and will be encouraged throughout the year.
3. Students are advised not to change any of the fluids used in their motor vehicles while on campus. These include motor oil, transmission fluid, anti-freeze, gasoline or diesel and windshield washer fluids.
 - a. Informing students on the risks to the environment will help minimize the accumulations of drippings and stains in parking lots and campus streets that can become part of stormwater runoff.
4. Students have been advised to utilize good housekeeping practices while on campus. This includes not littering, throwing away cigarette butts and keeping trash disposal areas clean.
 - a. The University has advertised an Earth Day event each year. This year's event was posted, and Campus Announcements were sent to all students, faculty, and staff. Students, Faculty, Staff and BrightView Landscape Services designed and planted a vegetable garden and flowers near the University Greenhouse. The Elizabeth River Project Representatives attended the event.
 - b. Students have participated in and organized several campus cleaning events over the past report year.
5. The University's website is a source of information on the status of the MS4 Program and all annual reports. Stormwater Pollution Awareness information is displayed via the NSU Internet Webpage and promotes Stormwater Pollution Prevention practices.
6. NSU Spartan E-Daily announcements and CC-TV broadcast also provide students and staff with information on stormwater pollution.

7. During this reporting period, the Earth Day public involvement event included information pertaining to Climate Change. In the next reporting period, the University will endeavor to provide more information on Climate Change in the public involvement events, as recommended by DEQ.

4.1.3 MCM 3 Illicit Discharge Detection and Elimination

Norfolk State University is committed to the environmental safety and protection of the campus community. This policy contains detailed information regarding requirements for MS4 storm system maintenance.

1. Equipment maintenance is also an area where illicit discharges have the potential to occur. The University is implementing standard operating procedures and guidelines for the maintenance of equipment coupled with training to prevent any unwanted discharge.
2. The University has an underground gasoline storage tank for use in state vehicles. To reduce this area as a possible source of pollution, the refueling of most of the vehicles is performed by the vehicle maintenance staff that have received training. The nozzle has been replaced with one that will close automatically; access to the hose is restricted by locking the nozzle in place, turning off the gasoline pump, and restricting refueling to a few hours in the morning when the mechanic is available to oversee the procedure.
 - a. This will prevent overflow spills on the pavement that would allow gasoline to enter the stormwater drains, staining the pavement, and reducing the risk of fire.
3. NSU has a partnership with an Environmental Services Contractor that provides daily monitoring and removal of trash inside of all University Buildings and Facilities throughout the campus.
4. Procedures to detect and address non-stormwater discharges will include training the groundskeepers and tradesmen how to identify and report illegal dumping. These individuals are to report observations and incidents that could result in illicit discharges, or conditions that could result in non-stormwater contamination. In addition to these detection methods, the main outfall from campus has a large screen that prevents solids from entering connecting sewers. The University will coordinate with the city to ensure this structure remains functional.
5. A formal proposal has been implemented advising the campus community that discharge of any materials, solid or liquid other than water into stormwater inlets is prohibited and infractions shall be subject to appropriate fines and/or penalties.

- a. Proposals of this nature shall be reviewed by the University senior administrators and legal counsel. Enforcement shall include University Police, and if student(s) are involved, summons may be issued to appear before a committee.
6. Removal of grease and oil accumulations from parking lots will require the use of pressure-washing, deployment of petrochemical absorbents around the cleanup site and in front of any affected stormwater inlet. This will prevent illicit discharges from entering the University's stormwater system.
 7. If an illicit discharge is identified, it will be reported to DEQ in the Annual Report.
 8. Campus stormwater outfalls are continually inspected, and a dry and wet weather inspection is performed annually by an outside source. The Outfall Reconnaissance Inventory (ORI) is the most proven method for screening campus stormwater outfalls. The ORI consists of walking all campus outfalls to document where they are and what condition they are in.
 - a. The purpose of the ORI is to identify potential illicit discharges that could impair water quality. The ORI also details on how to find an illicit discharge in the field and the appropriate laboratory strategies to identify pollutants.
 - b. Outfall maintenance will be performed by Brightview Landscaping during the next reporting year.

4.1.4 MCM 4 Construction Site Stormwater Runoff Control

The agreements defined under this measure have been implemented beginning in the first permit year, and continuously thereafter for any construction site projects. These agreements follow the Virginia Erosion and Sediment Control and Stormwater Laws for Construction projects. The agreements are listed below:

- For projects with a general contractor, there is a section dedicated to Slope Protection and Erosion Control in the plans.
- The University holds the general contractor responsible for maintaining the job site to the satisfaction of the University and all applicable regulations.
- The contractor is required to schedule work in a manner that best provides slope protection and erosion control by installing grass, ditches, or other means to prevent runoff into stormwater drains.
- The contractor must also clean out any drains that become contaminated with construction site runoff.

- The contractor shall be responsible for any damage to streams or other natural areas or wetlands from the addition of soil, rock, or topsoil, whether deposited by poor construction practice, sedimentation, or wind. The contractor is also responsible for any damage to vegetation matter, such as whole trees or any part thereof, or remnants from burning or other clearing processes, along with waste construction materials such as concrete, broken pipe, equipment parts or any other additions which could be detrimental to said areas.
- Any damages shall be assessed by the University through site inspections. The contractor shall act as soon as possible to prevent further damage and correct existing damage at no cost to the University. Should the University choose to do so, a remediation contractor will correct the damage, and their fees deducted from the original contractor's payments.
- The contractor is to expect periodic site inspections by the erosion and sediment control reviewing authority.
- The inspector for the erosion and sediment control reviewing authority shall be allowed access to all areas of the construction site.
- All conditions or practices noted by the inspector that could result in deteriorated slope protection or erosion control, shall be immediately corrected.
- If the inspector for the erosion and sediment control reviewing authority submits a report to the University or contractor, all infractions or penalties shall be addressed by the contractor at no expense to the University.
- At the agreed conclusion of a project, all temporary erosion control systems shall be removed, and inspection of adjacent stormwater inlets and drains conducted. The contractor shall remove all materials, sediment or vegetation that has entered due to activities related to the construction project.
- For sites more than one acre, the contractor shall ensure compliance with all the requirements of VR 680-14-19 (VPDES).
- The University reserves the right to require all architects, engineers, and related consultants to obtain appropriate certifications as specified under the Erosion and Sediment Control law.
- Contractor shall provide the University with legible copies of all correspondence, reports, meeting minutes, etc. that involve stormwater issues.

The goal of implementing these measures is to prevent pollution of stormwater and maintain healthy waterways.

4.1.5 MCM 5 Post-Construction Stormwater Management for New Development and Development on Prior Developed Lands

1. The University shall maintain compliance with Virginia Erosion and Sediment Control and Stormwater Laws.
2. Brightview landscaping has been hired to provide additional staff for stormwater maintenance and inspections.
3. The University's Stormwater Master Plan will be implemented to ensure compliance with current regulations. The intent is to supplement the Current Campus Master Plan by providing a guideline for development on campus.

4.1.6 MCM 6 Pollution Prevention and Good Housekeeping for Facilities Owned or Operated by the Permittee Within the MS4 Service Area

1. Tradesmen have been instructed to immediately clean up releases of any materials they are using and report any quantity that may have entered a stormwater drain. This increases the awareness for stormwater runoff and eliminates sources of illicit materials polluting surface waters.
2. Groundskeepers have been instructed to pick up debris to prevent shredding by lawn mowers and entering stormwater drains to reduce the number of pollutants in the stormwater and promote the free flowing of stormwater in the sewer lines.
3. Absorbent materials are kept available, and a fully enclosed hazardous materials storage shed is used for the staging of hazardous wastes, including contaminated absorbents and personal protective equipment. Storing hazardous waste isolated from the weather and unauthorized personnel will limit the chances of the material entering the stormwater system.
4. A Hazardous Substance Policy has been created and will be implemented to prevent hazardous materials from entering the University's stormwater sewer system and other downstream waters.
5. A Nutrient Management Plan has been approved and implemented to help reduce the number of pollutants in stormwater, specifically from the application of fertilizers and herbicides, and will be strictly followed.
6. A company with expertise in hazardous materials has been contracted to provide emergency responses to incidents requiring additional resources and equipment. They have the added

responsibility of overpacking primary containers and arranging transportation to approved disposal sites, recyclers, or incinerators. This will ensure a release is adequately remediated, storm drains are protected, staff personnel do not become contaminated, and disposal protocols are strictly followed.

7. After campus events, trash receptacles shall be emptied, stormwater inlets in the area will be checked, and trash removed from inlets. An estimate of the amount of trash collected shall be recorded.

4.2 Program Effectiveness

1. The MS4 program was updated and implemented in 2021. The program plan has been brought up to current General Permit standards.

4.3 Program Changes Needed

1. The program has been updated to include more training and public outreach to make the public aware of the impacts that the community can have on the environment and the stormwater system.

5.0 LOCAL TMDL ACTION PLAN STATUS

5.1 Elizabeth River TMDL Action Plan

The Elizabeth River TMDL Action Plan was developed to address pollutants of concern (POC) in accordance with the General Permit requirements where the university has been assigned a waste load allocation (WLA) in an approved TMDL. NSU drains to the Lower Easter Branch segment of the Elizabeth River and is therefore subject to the approved bacteria TMDL for the Elizabeth River.

Wildlife is considered to be the primary source of bacteria-laden runoff for the University's MS4 service area. The most notable wildlife present on campus is waterfowl. These animals are a large contributor to this source of bacteria as they are attracted to open spaces and wet areas present on the campus.

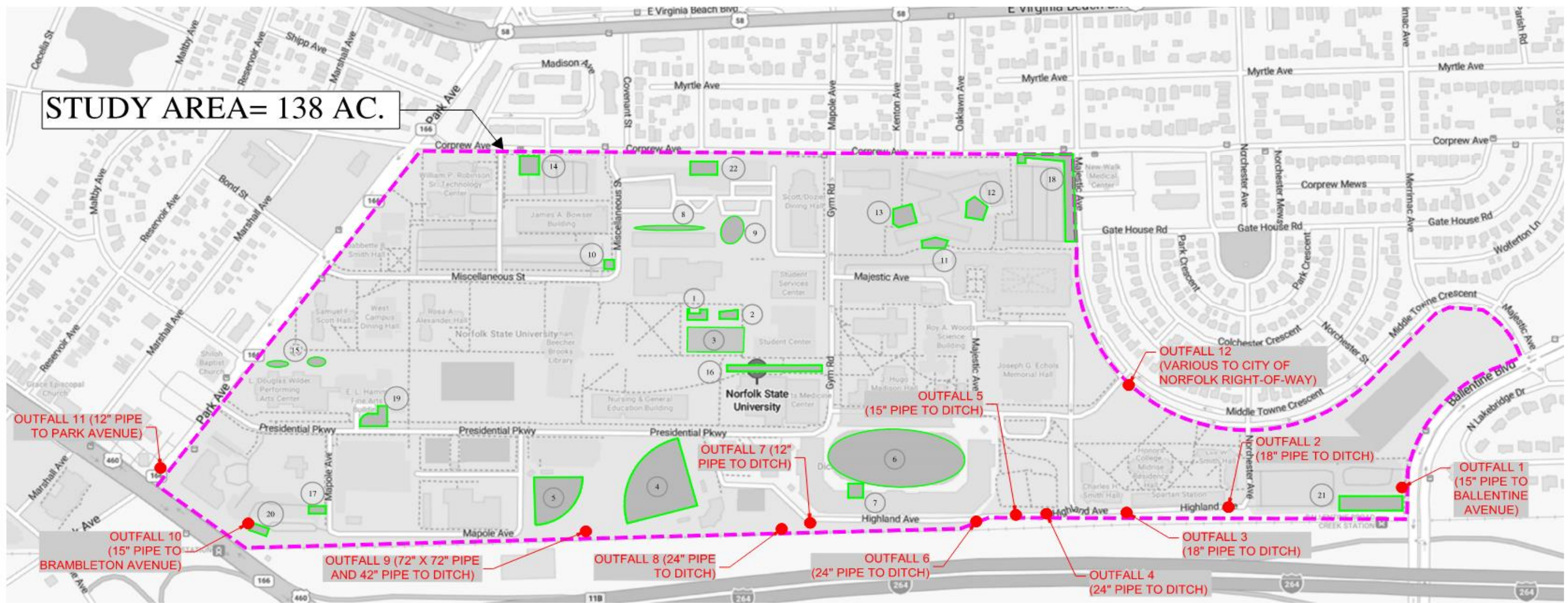
NSU has contracted "Flyaway Geese" Control use trained dogs to prevent geese from nesting on campus.

- Certified dogs (collies) utilized on campus twice a day to chase away geese and ducks.
- Chlorine has been added to various water fountains to deter geese from gathering and nesting.

Regular emails and/or fliers are sent out to the University's students, staff and faculty asking them to not feed geese or seagulls on campus.

APPENDIX A

MS4 Map and Outfall Information Table



OUTFALLS TIE TO CITY OF NORFOLK STORM NETWORK THAT DISCHARGE TO THE ELIZABETH RIVER TO THE SOUTH.

NORFOLK STATE UNIVERSITY OUTFALL AND BMP MAP

GRAPHIC SCALE



LEGEND

- - - LIMITS OF STUDY AREA
- EXISTING BMPs
- x BMP NUMBER ID

Table A1- BMP Map Legend:

BMP 1	STUDENT CENTER/ GODWIN HALL
BMP 2	STUDENT CENTER
BMP 3	STUDENT CENTER
BMP 4	BASEBALL FIELD
BMP 5	SOFTBALL FIELD
BMP 6	STADIUM
BMP 7	STADIUM CRYSTAL STREAM
BMP 8	BROWN HALL NORTH
BMP 9	BROWN HALL SOUTH
BMP 10	FILTERRA
BMP 11	RESIDENTIAL FACILITY 1
BMP 12	RESIDENTIAL FACILITY 1
BMP 13	RESIDENTIAL FACILITY 1
BMP 14	GATE 3/ LOT 30
BMP 15	HAMM FINE ARTS NORTH
BMP 16	PE/ SPORTS MED
BMP 17*	WILSON ADMIN/ LOT 2 & 3
BMP 18*	SPARTAN SUITES
BMP 19*	HAMM FINE ARTS SOUTH
BMP 20*	WILSON ADMIN
BMP 21*	OUTFALL 1/ LOT 10
BMP 22*	LOT 17

***BMPS MARKED WITH AN ASTERIX WERE BUILT BEFORE 2009 AND DO NOT RECEIVE CREDITS**

Table A2- Outfall Information Table

Norfolk State University Stormwater Outfall Informational Table								
Outfall Unique Identifier	MS4 Acres Served	Receiving Waters	HUC	Receiving Waters Impaired	Applicable TMDL	Land Use	Latitude	Longitude
Outfall 1	3.25	Eastern Branch Elizabeth River	JL54	Yes	Chesapeake Bay / Elizabeth River	Mixed Use	36.504715	-76.151059
Outfall 2	1.87	Eastern Branch Elizabeth River	JL54	Yes	Chesapeake Bay / Elizabeth River	Mixed Use	36.504686	-76.151928
Outfall 3	3.9	Eastern Branch Elizabeth River	JL54	Yes	Chesapeake Bay / Elizabeth River	Mixed Use	36.50466	-76.152415
Outfall 4	4.3	Eastern Branch Elizabeth River	JL54	Yes	Chesapeake Bay / Elizabeth River	Mixed Use	36.504643	-76.152835
Outfall 5	0.56	Eastern Branch Elizabeth River	JL54	Yes	Chesapeake Bay / Elizabeth River	Mixed Use	36.504643	-76.153011
Outfall 6	2.6	Eastern Branch Elizabeth River	JL54	Yes	Chesapeake Bay / Elizabeth River	Mixed Use	36.504638	-76.153168
Outfall 7	2.55	Eastern Branch Elizabeth River	JL54	Yes	Chesapeake Bay / Elizabeth River	Mixed Use	36.504628	-76.154035
Outfall 8	2.26	Eastern Branch Elizabeth River	JL54	Yes	Chesapeake Bay / Elizabeth River	Mixed Use	36.504609	-76.154171
Outfall 9	100.32	Eastern Branch Elizabeth River	JL54	Yes	Chesapeake Bay / Elizabeth River	Mixed Use	36.504598	-76.155244
Outfall 10	3.3	Eastern Branch Elizabeth River	JL54	Yes	Chesapeake Bay / Elizabeth River	Mixed Use	36.504624	-76.16094
Outfall 11	0.72	Eastern Branch Elizabeth River	JL54	Yes	Chesapeake Bay / Elizabeth River	Mixed Use	36.504808	-76.161304



CREATE AMAZING.

Burns & McDonnell

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