NORFOLK STATE
UNIVERSITY

2017 MS4 Annual Report

NORFOLK STATE UNIVERSITY
ANNUAL MUNICIPAL SEPARATE STORM SEWER REPORT

Background information

1. *The name and permit number of the program submitting the annual report.*

   Norfolk State University, Permit # VAR 040097

2. *The annual report permit year.*

   Permit Year July 1, 2016 to June 30, 2017

3. *Modifications to any operator's department's roles and responsibilities.*

   The Facilities Management Department has replaced the positions of:

   - No replacements have been made.

4. *Number of new MS4 outfalls and associated acreage by HUC added during the permit year.*

   No new outfalls were added during the permit year. The existing outfalls and associated acreages by HUC are as follows:

Outfall Name	Acreage	HUC	Description
Outfall #1	±3.4 Acres	JL 54	Flows east into the City line under Ballentine Avenue
Pipes #2 to 8	±18.0 Acres	JL 54	Flow south into a perimeter ditch
Outfall #9	±104.8 Acres	JL 54	Is a large box culvert which flows to the south border
Outfall #10	±3.3 Acres	JL 54	Flows south to the City line under Brambleton Avenue
Outfall #11	±1.2 Acres	JL 54	Flows west to the City line under Park Avenue

An overlay map displaying these structures are in the attached appendix A.

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5. *Signed certification in accordance with 4 VAC 50-60-370.*

"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."

10/12/17
Date

Signature

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6. *The status of compliance with permit conditions, an assessment of the appropriateness of the identified best management practices including an assessment of the appropriateness of the identified BMPs in addressing discharges into waters that identified as impaired in the 2012 305(b)/303(d) Water Quality Assessment Integrated Report and progress towards achieving the identified measurable goals for each of the minimum control measures.*

   -See attached chart for additional information regarding this item.

7. *The results of information collected and analyzed, including monitoring data, if any, during the reporting period.*

   -See attached chart for additional information regarding this item.

8. *A summary of the stormwater activities the operator plans to undertake during the next reporting cycle.*

   - The University has retained a consultant to assist with updating a prior stormwater master plan for the campus which includes specific directions for current and future stormwater best management practices. The proposed Stormwater Management Master Plan is currently being updated to conform to new state regulations and TMDL requirements. A formal submittal of the updated Campus Stormwater Master Plan will be submitted to DEQ for review by late 2017.

   -See attached chart for additional information regarding this item.

9. *Any changes in any identified best management practices or measurable goals for any of the minimum control measures including steps to be taken to address any deficiencies.*

   -See attached chart for additional information regarding this item.

Minimum Control Measure #1: Public Education and Outreach on Stormwater Impacts

This measure requires the University to educate the public about the potential impact of stormwater discharges from the University. The University will show the impact it has on surrounding bodies of water, emphasizing the precautions to be taken to reduce pollutants in stormwater runoff. The University considers the campus community as its public and a critical stakeholder in the University's Stormwater Management Plan. Staff receive work orders that directly address physical conditions that can be the source of stormwater pollutants. Multiple Best Management Practices (BMP)s are associated with this Minimum Control Measure. All BMPs defined under this measure were implemented during the first permitting year and continuously since that time.

Proposed BMP	Measurable Goal and Effectiveness	Compliance Status	Plans for Next Permit Year
1A. High Priority Water Quality Issues: 1. - Bus Wash Facility - Prevent oils and grease from entering the storm sewer system. Design and construction of needed bus wash water inlet structure to be tied into the sanitary sewer system. 2. - Material Storage (Mulch, sand, dirt) - Prevent sediment and material being carried with storm runoff to storm sewer system. Design and construction of a material storage bays with E & S control measures. 3. - BMP and Outfall maintenance - Prevent vegetative matter from depositing and accumulating in Stormwater Management Facilitates or draining to storm sewer system. A presentation on the University's conservation initiatives, including stormwater pollution prevention will be presented to the grounds staff, students and other interested parties, to increase awareness of stormwater and pollution prevention measures and High Priority Water Quality Issues. This includes understanding of the differences between stormwater and sanitary sewer systems and will be presented annually.	Target Audience - 162 Housekeeping and grounds employees of which 83 Grounds Staff Member (50%) attended and received training. . Additionally, Approximately 400 students in residence halls and student orientations received Stormwater pollution prevention brochures. NSU has retained the services of a private consultant to design measures to mitigate the 3 high priority water quality issues.	Training on the University's conservation initiatives, including stormwater pollution prevention was completed and held on 1/13/17, 3/10/17, 5/31/17, 6/7/17, and 7/25/17, covering the 3 high priority water quality issues and additional stormwater pollution prevention information.	Show updated presentation to staff and students and other interested parties. An expanded program of training in 2018 will include police officers and more students and faculty. NSU will target its Staff members (162 +/-) for the next reporting year in hopes of increasing attendance 80% to 85%.

Proposed BMP	Measurable Goal and Effectiveness	Compliance Status	Plans for Next Permit Year
1B. The University's website is a source of information on the numerous programs. Among the topics under Facilities Management is information on pollution prevention and stormwater management. (Additional links to other local programs and the City of Norfolk initiatives aimed at improving water quality are to be incorporated.)	To provide the public with easy access to basic information on the various aspects of the University's concern for the natural environment. The program and annual report will be posted annually.	The 2016 MS4 Report is currently available on the University's Website - https://www.nsu.edu/Assets/websites/facilities-management/forms/NSU%20-%20%20ANNUAL%20MS4%20REPORT%202014%20Complete%20-%20REVISED%202015-04-06.pdf A copy of the 2017 MS4 Annual Report and Program Plan will be uploaded when completed. A technical staff member was utilized to upgrade the departments current site. A draft copy of both the department website as well as the additional Stormwater Management website was submitted as part of the 2013 Annual Report. The draft has not yet been approved due to administrative changes.	Continue to post Annual Report and Program. Stormwater Management Website is Pending review and approval 2018.
1C. Post stormwater pollution prevention information in the NSU Spartan E-Dailey Email.	One to Two page ad type inclusion to reach student body, staff, and faculty on a semi-annual basis.	NSU has a the Spartan E-Daily Web Email. The University Email covers a variety of topics, including sports, future events, guest speakers, and political topics of interest. In 2017, no stormwater pollution prevention topics were covered.	University staff plan to work with Spartan E-Daily staff to developing articles to include during the next permit year.
1D. Facilities Construction Manager and Inspectors to take DEQ E&S Inspector Course and obtain certification. (Construction Sites)	NSU's Construction Manager was recently promoted to Director of Capital Planning and Improvements. NSU's Director of Environmental Health, Safety and Risk Management Office and University Architect have taken the DEQ E&S and Stormwater Inspector Course.	A member of NSU's Environmental Health, Safety and Risk Management Office and University Architect have completed taking the DEQ E&S and Stormwater Management Course in the 2016 year. They are both currently taking the Program Administration course section.	Apply for and take corresponding exams. Apply for the examninations and maintain any required certifications.

Proposed BMP	Measurable Goal and Effectiveness	Compliance Status	Plans for Next Permit Year
1E. Storm water pollution prevention brochures are to promote interest in protecting the natural environment of the campus and related wetlands and rivers.	After approval by senior management, the brochures are to be printed in sufficient volume for the campus community. The brochures shall be available at strategic locations on campus.	The distribution of brochures has been done. A copy of the final version was submitted as part of the 2013 MS4 Report and has not changed since.	Continue to distribute to the students as outlined.
1F. Students have been invited to assist with the attaching of storm drain markers to stormwater inlets. This project will depend on weather conditions, and the students' academic schedules.	To encourage student/faculty/staff participation and recognition of the stormwater management system. This task will be performed until all inlets on campus have a marker.	100 markers were installed by a consultant in June 2011. The condition of the markers was verified. No markers required replacement in 2016.	In late 2017 / early 2018, all the markers will be removed and replaced with new markers.
1G. Preparation of a SWPPP (Stormwater Pollution Prevention Plan) for the University's Maintenance Facility .	Norfolk State University has retained the services of a private consultant for the preparation of a SWPPP (Stormwater Pollution Prevention Plan) for the Maintenance Facility that identifies methods for the prevention of sediment and pollutants from entering the storm sewer system. The concern is controlling any sediment, debris and oils from potentially entering the storm sewer system. The SWPPP identifies methods for the prevention of sediment and pollutants from entering the storm sewer system.	Preparation of the SWPPP has been completed as of September 2015 and has been implemented.	Maintain SWPPP documents and update as required based on updates from DEQ.

Proposed BMP	Measurable Goal and Effectiveness	Compliance Status	Plans for Next Permit Year
1H. Design of new Bus Wash Facility for the University's Maintenance Facility.	Norfolk State University has retained the services of a private consultant for the design of a new Bus Wash Facility for the University's Maintenance Facility. The concern is controlling any oils and grease from potentially entering the storm sewer system. This will be addressed with the installation of a new drop inlet that is tied to the sanitary system. As buses are washed the Inlet structure will be opened via a hatched cover, where wash water from the buses can be collected and sent through the sanitary sewer system. When washing is complete the hatch cover of the inlet is closed, so storm events can pass by the structure and drain to the storm system.	Planning, design, and construction completed in late 2016. Corrective modificiations are currently underway that will allow the new hinged hatch covered drain inlet to be more efficient at capturing bus wash water that is tied into the sanitary sewer system. Maintenance and inspection shall take place as required per the SWPPP for the Maintenance Facility.	Oversee modifications of the new bus wash facility. Continue with Inspection and Cleaning per the SWPPP.

Minimum Control Measure #2: Public Involvement/Participation

This measure requires the University to encourage the public to become involved in the protection of stormwater runoff and related sewer systems. As a State University and a campus open to the general public, NSU has provided program basics on its website, conferred with faculty, and made presentations to students. Multiple BMPs are associated with this Minimum Control Measure. All BMPs defined under this measure were implemented during the first permitting year and continuously since that time, unless specifically stated otherwise.

Proposed BMP	Measurable Goal and Effectiveness	Compliance Status	Plans for Next Permit Year
2A. Students will be invited to participate in a tree planting program.	To encourage student/faculty/staff awarness and participation to provide soil stabilization, reduce heat island effect, sediment and pollution from getting in storm drains. This will occur annually.	The Tree Planting Program was participated in during this permit year. Approximately 12 students particapated in the planting of an Oak Tree at the Main student Quad. Additionally, 8 trees were planted at the Student Greek Row Plaza and 4 trees were planted at Scott Dozier Planter.	Continue program and advertise on Spartan E-Daily to to increase student group involvement.

Proposed BMP	Measurable Goal and Effectiveness	Compliance Status	Plans for Next Permit Year
2B. Prepare for Earth Day Activities.	Students will be encouraged to participate and attendance will be taken. This process will occur annually and was started in 2013.	The University did not have an Earthday activity for the reporting year.	Earth Day will be celebrated on campus; it is uncertain what activities will be scheduled for this upcoming year.
2C. The University's website is a source of information on the status of the MS4 Program and all annual reports. Make copies of reports available on website.	To annually provide public access to the permit via the University's website. Increase their knowledge of stormwater regulations and NSU's efforts to improve the local water quality.	The 2016 MS4 Report is currently available on the University's Website - https://www.nsu.edu/Assets/websites/facilities-management/forms/NSU%20-%20%20ANNUAL%20MS4%20REPORT%202014%20Complete%20-%20REVISED%202016-10-01.pdf A copy of the 2017 MS4 Annual Report and Program Plan will be uploaded when completed. A technical staff member was utilized to upgrade the departments current site. A draft copy of both the department website as well as the additional Stormwater Management website was submitted as part of the 2013 Annual Report. The draft has not yet been approved due to administrative changes.	Continue to post Annual Report and Program. Stormwater Management Website is Pending review and approval in 2018.
2D. Involvement/Participation of Public, Students and Staff: Conduct a presentation on stormwater pollution prevention to Facilities Management Staff and Students.	To increase Public, Student and Staff awareness of stormwater and pollution prevention measures. This includes understanding of the differences between stormwater and sanitary sewer systems and allowable discharges, and will be conducted annually to biannually.	Housekeeping and grounds employees, of which 83, (50%) attended, received training on 1/13/17, 3/10/17, 5/31/17, 6/7/17, and 7/25/17. Additionally, approximately 900 students in residence halls and student orientations received Stormwater pollution prevention brochures.	Update presentations for staff and students and other interested parties. Continue training in next reporting year.

Proposed BMP	Measurable Goal and Effectiveness	Compliance Status	Plans for Next Permit Year
Minimum Control Measure #3: Illicit Discharge Detection and Elimination			
This measure requires the University to detect and eliminate illicit discharges into the MS4. The University is aware of potential sources of illicit discharges and has made their elimination a high priority. The following discharges are exempt from discharge prohibitions established by this Minimum Control Measure: • Water line flushing or other potable water sources • Landscape irrigation or lawn watering • Diverted stream flows • Rising ground water • Ground water infiltration to storm drains • Uncontaminated pumped ground water • Foundation or footing drains (not including active groundwater dewatering systems) • Crawl space pumps • Air conditioning condensation • Springs • Natural riparian habitat or wetland flows • Swimming pools (if de-chlorinated - typically less than one PPM chlorine) • Fire fighting activities • Any other water source not containing Pollutants. Materials used by the equipment maintenance staff, vegetative nutrients, housekeeping cleansers, chemicals used in academic and research laboratories have been identified as potential pollutants. Separate procedures have been established for each of these exposures. Multiple BMPs are associated with this Minimum Control Measure. All BMPs defined under this measure were implemented during the first permitting year and continued since that time, unless specifically stated otherwise.			
Proposed BMP	Measurable Goal and Effectiveness	Compliance Status	Plans for Next Permit Year
3A. Equipment maintenance: As much as possible, motorized unlicensed equipment will be stored under a shed roof to help minimize the amount of stormwater runoff from the equipment. This equipment can develop lubricant and fuel stains which could produce sheen on waters entering stormwater drains. Accumulations of grass clippings, leaves, dirt and loose debris are to be removed from the equipment, and swept up to prevent their inadvertent entry into stormwater inlets.	To make equipment operators more accountable for the cleanliness of the equipment and reduce the possibility of petrochemical residue and debris entering the stormwater sewer system. Operators will adhere to policies outlined in this plan.	Active. Grounds personnel are trained in keeping debris out of stormwater drains. A roof was installed over equipment in maintenance yard to prevent any oils from equipment entering storm sewers during rain events. In addition, the various fluid product cabinets have been moved from the yard.	Continue plan as is but reinforce it with the development of more specific procedures to clarify employee responsibilities.

Proposed BMP	Measurable Goal and Effectiveness	Compliance Status	Plans for Next Permit Year
3B. Motor vehicle refueling: The University has an underground gasoline storage tank for use in state vehicles. Refueling most of those vehicles is performed by the vehicle maintenance staff who have been instructed not to "top-off" the vehicle tank for fear of overflow and spilling onto the pavement. To help prevent incidents, 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.	Prevent gasoline from entering the stormwater drains, staining the pavement and reducing the risk of fire. The University will ensure that no unauthorized use of the gasoline tank will occur.	Active	Continue plan as is.
3C. Vegetative nutrients: The University has contracted with a consultant to assist with a nutrient management program. The program includes soil tests, assessments of vegetation and specified application amounts.	To maintain healthy lawns and plantings while reducing spillage on pavements that can enter stormwater inlets and adversely affect marine life.	The nutrient plan has been updated and approved by DCR in August 2017. The plan will be active through 2019. It is attached to this year's 2017 annual report.	Apply and maintain new nutrient management plan.
3D. Dumping: Develop procedures to detect and address non-stormwater discharges, including illegal dumping, will include the University Police patrolling the campus and the presence of facilities groundskeepers, tradesmen and shuttle bus drivers. 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 assure this structure remains functional.	To prevent illegal dumping from entering the stormwater drains, which could impair water quality. Incidents of dumping will be documented and provided.	The City conducts periodic checks. NSU grounds staff and Campus police patrol the campus regularly. No illicit discharges were reported. The draft policy for Illicit discharge is still being reviewed and considered by the University and is expected to be incorporated in 2018.	Continue monitoring. Initiate and maintain the formal policy, if the draft policy is approved. Amend policy if required and resubmit changes to DEQ for review and approval.
3E. Penalties: A policy proposal shall be drafted addressing the seriousness of illicit discharges on campus, and explaining the possible adverse impact of hazardous materials on the natural environment. The policy shall apply to all members of the campus community and visitors. Technical and legal reviews will be involved and may specify assessments of penalties by a faculty or student conduct board.	If approved, the policy would be made public through an extensive advertising campaign and a "grace" period clearly stated for all to become aware of the policy.	The draft policy is still being reviewed and considered by the University and is expected to be incorporated in 2018.	Initiate and maintain the formal policy, if the draft policy is approved. Amend policy if required and resubmit changes to DEQ for review and approval.

Proposed BMP	Measurable Goal and Effectiveness	Compliance Status	Plans for Next Permit Year
3F. 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 inlets.	To prevent illicit discharges from entering the University's stormwater system.	One incident occurred in the 2017 reporting year. A student's vehicle was reported as leaking gas within the parking field. The car was immediately towed to a repair shop and the spill was contained and removed before entering the storm sewer system.	Continue to monitor parking lot areas.
3G. In the event that an illicit discharge is identified, it will be reported to DEQ in the Annual Report.	To prevent illicit discharges from entering the University's stormwater system. Identified illicit discharges will be reported annually.	One incident occurred in the 2017 reporting year. A student's vehicle was reported as leaking gas within the parking field. The car was immediately towed to a repair shop and the spill was contained and removed before entering the storm sewer system.	Continue plan as is.
3H. Dry weather Screening. Stormwater Outfall inspection: This section includes details on how to find an illicit discharge in the field and the appropriate laboratory strategies to identify particular pollutants. The Outfall Reconnaissance Inventory (ORI) is the most proven method for screening campus stormwater outfalls. The ORI consists of walking all of the campus outfalls to document where they are and their condition. The field team should be able to find where continuous and intermittent stream flows exist. They will take note of any outfalls with discharges of very high turbidity, strong odors, unnatural colors or an extreme case of pH on a field litmus test strip. When obvious discharges are found, the field crew will take note and start working upstream to find where the source is and eliminate it. While traversing the campus, field crews should be looking for other more common illicit discharges like oil spills, un-permitted car washing or other harmful liquid spills. If these are encountered the appropriate abatement agency should be notified. The following table provides a step by step process for conducting an ORI.	To identify potential illicit discharges that could impair water quality. All outfalls to be inspected and inspection checklist kept onsite. All campus outfalls will be initially inspected by the end of the third permit year and quarterly thereafter. Inspections will be documented.	The 11 Outfalls were inspected with no major incidents reported. It was recorded that regular maintenance of overgrown vegetation was needed to be cut back and removed. Inspection Reports have been completed and recorded in the program.	Continue plan as is.
3I. Students have been 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.	To minimize the accumulations of drippings and stains in parking lots and campus streets that can become part of stormwater runoff. The campus will be reminded electronically each semester.	No incidents reported.	Continue plan as is.

Proposed BMP	Measurable Goal and Effectiveness	Compliance Status	Plans for Next Permit Year
3J. A list of any written notifications of physical interconnection given to other MS4 holders.	To make adjoining MS4 entities aware that there is interconnecting storm systems.	City of Norfolk is the only interconnected MS4 entity. Written notification was sent out to the Environmental Programs Manger - June Whitehurst on September 28, 2015.	Issue new notification if changes in interconnected MS4 should occur.
Minimum Control Measure #4: Construction Site Stormwater Runoff Control			
The University has adopted state mandated procedures to reduce pollutants in stormwater runoff from entering the stormwater inlets on campus during construction projects. The permit requires that			
Proposed BMP	Measurable Goal and Effectiveness	Compliance Status	Plans for Next Permit Year
4A. Maintain compliance with Virginia Erosion and Sediment Control and Stormwater Laws for Construction projects: Included in affected projects with a general contractor, is a section dedicated to slope protection and erosion control.	To adhere to all laws for erosion, sediment control, and stormwater management. The Construction Manager (NSU is currently seeking a new Construction Manager) will perform inspections to ensure compliance. The construction safety officer is handling these duties.	Requirements for complying with Virginia E&S are specified in contract including protection of slopes and erosion control. In addition, NSU has had Annual Standards and Specifications prepared, which describe the University's procedures for all land disturbance projects. The AS&S document has been submitted and approved by DEQ in the 2017 permitting year and is kept with the MS4 Program.	Continue plan as is.
4B. The University holds the general contractor responsible for maintaining the job site to the satisfaction of the University and all applicable regulations.	To provide a safe working environment and eliminate damages to the environment. This will be included in the inspection and documented within the MS4 Program records.	The general contractor is held responsible for the entire project and applicable regulations via their contract with the University. No incidents observed or reported.	Continue plan as is.
4C. The contractor is required to schedule work in a manner that best provides slope protection and erosion controls by installing grass, ditches or other means to prevent runoff into stormwater drains.	To prevent erosion on the construction site. This will be included in the inspection and documented.	The general contractor has coordinated their tasks to minimize erosion and slope protection with the use silt fences and vehicle traffic control.	Continue plan as is.
4D. The contractor must clean out any drains that become contaminated with construction site runoff.	To eliminate future contamination of stormwater entering previously contaminated drains on an as-needed basis. Documentation of cleaning will be provided.	No drains were adversely affected during the current project.	Continue plan as is.

Proposed BMP	Measurable Goal and Effectiveness	Compliance Status	Plans for Next Permit Year
4E. The contractor will be responsible for any damage to streams or other natural areas or wetlands by the addition of soil, rock, or topsoil, whether deposited by poor construction practice, sedimentation, or wind, and vegetation matter such as whole trees or any part thereof, or remnants from burning or other clearing processes, and waste construction materials such as concrete, broken pipe, equipment parts and any other additions which could be detrimental to said areas.	To protect the surrounding areas from damage due to poor construction practices. The Construction Manager (NSU is currently seeking a new Construction Manager) will perform inspection to ensure compliance and will enforce penalties as needed. The construction safety officer is handling these duties.	The contractor has been held responsible for minimizing any impact on the local natural features. Waste construction materials were controlled. No incidents observed.	Continue plan as is.
4F. Any damages will be assessed by the University based on site inspections. Currently the City of Norfolk's Environmental Division inspect projects with land disturbance every 5 business days and after rain events. The contractor will 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 contractor's payment.	To eliminate and repair damages to the surrounding areas. Inspections will take place every 5 business days and after rain events (to be compliant with MS4 Permit - TMDL requirements) and damages will be reviewed and assessed by the University as needed.	Currently the City of Norfolk's Environmental Division inspect projects with land disturbance. Inspection reports from the City of Norfolk are kept with the MS4 program records. In addition, NSU's Director of Environmental Health, Safety and Risk Management Office has completed the DEQ E&S Inspector training course. No remediation contractor was required in the permit year. With the introduction of the Annual Standards and Inpsections the University will be taking over inspections for Campus projects.	Continue plan as is.
4G. The contractor is to expect site inspections by the erosion and sediment control reviewing authority (City of Norfolk - Environmental Division). Current projects requiring SWPPP and City Inspections of E & S Measures: Brown Hall Building and Site Improvements.	Inspections will be performed by the City Inspector and documentation will be recorded. In the 2016 Reporting Year, The City of Norfolk's Environmental Division inspected the Brown Hall construction project a reported 36 times. Inspection reports are included with this years annual report and will be kept in the program records.	In the 2017 Reporting Year, The City of Norfolk's Environmental Division inspected the Brown Hall construction project a reported 43 times. Inspection reports are included with this years annual report and will be kept in the program records. The general contractor has been responsive to requests from the City Inspector. No incidents observed or reported.	Continue plan as is.

Proposed BMP	Measurable Goal and Effectiveness	Compliance Status	Plans for Next Permit Year
4H. The inspector for the erosion and sediment control reviewing authority will be allowed access to all areas of the construction site.	To ensure all areas of the site are properly monitored and examined. The inspector will document all considered locations.	The University's acting Construction Manager (NSU is currently seeking a new Construction Manager) has had full access to all sectors of the construction site.	Continue plan as is.
4I. All conditions or practices noted by the inspector, that could result in deteriorated slope protection or erosion control, will be immediately corrected.	To prevent damage to the construction site, the inspector will document damages and take immediate action.	The general contractor has been responsive to requests from the City Inspector. Minor comments were noted and addressed within the required time frames. The construction safety officer is handling these duties.	Continue plan as is.
4J. If the inspector for the erosion and sediment control reviewing authority submits a report to the University or contractor, all infractions or penalties will be addressed by the contractor at no expense to the University.	To make the contractor liable for all infractions and penalties caused by damages. The University will document all infractions and penalties.	No infractions or penalties were recorded.	Continue plan as is.
4K. At the agreed conclusion of a project, all temporary erosion control systems will be removed, and inspection of adjacent stormwater inlets and drains conducted. The contractor will remove all materials, sediment or vegetation that has entered due to activities related to the construction project when approved to remove measures by the inspector.	To ensure proper clean-up of site upon completion and removal of erosion control systems. Inspection documentation will be provided.	The new Brown Hall Building project started in 2015 and is expected to be completed late 2017. All erosion control measures shall be installed and maintained until the site is stabilized and inspectors have signed off that measures can be removed, with the site paved, and a plantings/grass lawn installed as specified.	Continue plan as is.
4L. For sites in excess of 2500 sf, the contractor will ensure compliance with all the requirements of VR 680-14-19 (VSMP).	Inspections will ensure the contractor follow requirements.	The general contractor has demonstrated compliance with the requirements of the contract. Inspection by the University's acting Construction Manager has served to assure compliance.	Continue plan as is.
4M. 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.	The University shall request to receive documentation of appropriate certifications.	Appropriate documentation and certifications have been provided as requested.	Continue plan as is.

Proposed BMP	Measurable Goal and Effectiveness	Compliance Status	Plans for Next Permit Year
4N. Contractor will provide the University with legible copies of all correspondence, reports, meeting minutes, etc. that involve stormwater issues.	The University will review all stormwater practice correspondence.	Site inspection reports submitted by inspectors have been reviewed and kept in file.	Continue plan as is.

Minimum Control Measure #5: Post-Construction Stormwater Management in New Development and Re-Development

The University will develop, implement and enforce procedures to address stormwater runoff from completed construction sites. Multiple BMPs are associated with this Minimum Control Measure. All BMPs defined under this measure will be continued to be implemented each permit year.

Proposed BMP	Measurable Goal and Effectiveness	Compliance Status	Plans for Next Permit Year
5A. Compliance with Virginia Erosion and Sediment Control and Stormwater Laws: • The location, size and routing of stormwater will be designed, approved and constructed in accordance with existing regulations. Tie-ins to existing structures will be permitted if engineering studies can prove that such configurations are within current capacities and do not inhibit severe stormwater flows. • The University will implement strategies that include structural and nonstructural best management practices appropriate for the campus and surrounding environments. In contracts with consultants, emphasis will be placed on replicating pre-construction runoff characteristics and site hydrology. Among the prominent concerns are the runoff from local city streets and the outfalls from the campus. • Any additional maintenance requirements of the new structure will be assigned to the respective tradesmen. If warranted, formal preventive maintenance procedures will be scheduled and modified as warranted by experience, efficiency and employee safety. • Work orders and inspections of stormwater structures will be documented and copies sent to the Office of Environmental Health. Discrepancies will be recorded and corrective measures identified, performed and documented. Timely completion of these functions will be a factor in the tradesmen's performance appraisals. • New construction activities will secure a VSMP permit.	To prevent pollution of stormwater and maintain healthy waterways. The inspector will ensure all new erosion and sediment control processes will be properly documented and approved.	These items are required within the construction contracts for all current and new construction on campus.	Continue plan as is.

Proposed BMP	Measurable Goal and Effectiveness	Compliance Status	Plans for Next Permit Year
5B. Outside consultants have been scheduled to conduct inspections of campus stormwater basins. Inspections are documented and include clearing of soil/sand, removal of debris, checks for erosion, reporting of sheen in standing water, and the removal of leaves and floating debris. Periodic inspections will be added to the preventive maintenance list.	To verify basins are clean and capable of retaining and draining. This will be done quarterly and documentation will be provided.	These items are required within the construction contracts for all current and new construction on campus.	Continue plan as is.
5C. Develop a Stormwater Master Plan: For State owned property, stormwater regulations are determined and enforced at the State level by the Virginia Department of Environmental Quality (DEQ). The Master Plan was developed to ensure compliance with current regulations.	To supplement the Current Campus Master Plan by providing a guideline for development on campus, and updating it as projects are completed. A copy can be provided upon request.	The University has retained a consultant to assist with updating the existing campus storm water master plan for the campus which includes specific directions for current and future stormwater best management practices.	The proposed Stormwater Management Master Plan concepts for Norfolk State University are to be updated to conform with new regulations. A formal submittal of the updated Campus Stormwater Master Plan will be submitted to DEQ for review by late 2017.
5D. Develop a Stormwater Management Facility Record to include: Treatment area, type of BMP, and Hydrologic Unit Code. Should also include inspection reports and checklist.	Create a plan that will be continuously updated with new construction projects and new SWMF. This plan will be updated and submitted with the annual report.	See Appendix A below for a list of current BMPs on campus. NSU has retained the services of a consultant to assist with the preparation of a SWMF Record documents and map.	Upon completion and approval of the stormwater master plan, a complete record and inspection schedule will be established.

Minimum Control Measure #6: Pollution prevention/good housekeeping for municipal operations

The University has been performing functions that contribute to the prevention of pollutants from entering stormwater inlets and adversely affecting the natural environment. Potential sources of

Proposed BMP	Measurable Goal and Effectiveness	Compliance Status	Plans for Next Permit Year
6A. Development and Implementation of Dailey Operation Procedures	Eliminate sources of illicit materials polluting surface waters. Dailey Good House keeping procedures are included in the new Facilities Maintenance SWPPP.	Preparation of the SWPPP containing Good House Keeping Procedures completed in September 2015 is being implemented. A copy will be kept in the program records.	Continue plan, update SWPPP as required based on updates from DEQ.

Proposed BMP	Measurable Goal and Effectiveness	Compliance Status	Plans for Next Permit Year
6B. Development and Implementation of required SWPPPs	Norfolk State University has retained the services of a private consultant for the preparation of a SWPPP (Stormwater Pollution Prevention Plan) for the Maintenance Facility that identifies methods for the prevention of sediment and pollutants from entering the storm sewer system. The concern is controlling any sediment, debris and oils from potentially entering the storm sewer system. The SWPPP identifies methods for the prevention of sediment and pollutants from entering the storm sewer system.	Preparation of the SWPPP has been completed as of September 2015 and has been implemented.	Maintain SWPPP documents and update as required based on updates from DEQ.
6C. Development and Implementation of turf and landscape Nutrient Management Plan. The University has chosen to select a consultant from a list, originally provided by the DCR. After soil conditions have been sampled and tested, specific fertilizer mixes will be administered by the University to maintain the lawns and flower beds. The application of fertilizers and herbicides will strictly follow the recommendations provided by the consultant, and will be fully documented. Those employees assigned to apply the fertilizers and herbicides will be certified to perform those tasks.	Maintain the minimum appropriate levels of fertilizers and to prevent excess from entering storm sewer system and causing downstream pollution. Nutrient Management is applicable for all locations containing turf and or planted areas within the University.	The nutrient plan 2017-2019 was updated and submitted in 2017 and is included in the Program Plan. NSU currently has 12.88 Acres of athletic field turf and decorative landscaped areas that 100% is accounted for in the nutrient management plan. A copy of the Nutrient Management Plan is included with this year's annual report.	Continue to follow and maintain the Nutrient Management Plan.
6D. Required Employee Training	Increase staff awareness and procedures for stormwater and pollution prevention measures. NSU's Director of Environmental Health, Safety and Risk Management Office has preresented multiple training seminars for in-house training of Facilities Maintenance Staff with regard to Stormwater Pollution Prevention and Good Housekeeping. The Training Calendar of events and topics of discussion are filed in the Program Plan.	Stormwater Pollution and BMP Maintenance training was held on 1/13/17, 3/10/17, 5/31/17, 6/7/17, and 7/25/17. 83, Grounds Staff Member (60%) attended and received training. The Director and University Architect have completed the DEQ Erosion and Sediment Control and Stormwater Management Courses during the 2016/2017 permit year. In addition the grounds supervisor has attended the DEQ stormwater inspector training.	Continue plan as is.

Proposed BMP	Measurable Goal and Effectiveness	Compliance Status	Plans for Next Permit Year
6E. Tradesmen have been instructed to immediately cleanup releases of any materials they are using and report any quantity that may have entered the stormwater sewer system.	Increase awareness for stormwater runoff and eliminate sources of illicit materials polluting surface waters.	Requirements added to work profile.	Continue plan as is.
6F. Groundskeepers have been instructed to pick-up debris and floatables to prevent shredding by lawn mowers and entering the stormwater sewer system.	Reduce the amount of pollutants in the stormwater, and promote the free flowing of stormwater in the sewer lines.	Requirements added to work profile.	Continue plan as is.
6G. 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.	Tradesmen and faculty to store hazardous wastes isolated from the weather and unauthorized personnel. Documentation of the location of the storage shed will be provided.	Completed. Storage shed is in the southeast corner of lot #4.	No further plans.
6H. Creation of a Hazardous Substance Policy: The discharge of hazardous substances or oil into the stormwater sewers has been prevented through the creation of a hazardous materials policy. The policy includes the periodic removal of hazardous wastes from the academic chemistry, biology and medical laboratories, along with chemical wastes from the research facilities. Hazardous substances and wastes from facility maintenance operations are controlled by storing the materials in flammable storage cabinets, keeping a limited amount on campus, and using an approved hazardous waste hauler to over pack stale or contaminated cans, bottles, etc. Temporary storage on campus is within a specially manufactured hazardous material shed until transport to a recycler, incinerator or approved landfill can be arranged by the hazardous waste transporter. Reporting, response and disposal requirements have been explained to staff as part of the Hazard Communication Training required by OSHA Standard 29 CFR 1910.1200.	Prevent hazardous materials from entering the University's stormwater sewer system and other downstream waters. A copy of this policy will be submitted.	Proposed F.M. Policies 49.03.08-49.03.12. The proposed policy is in draft form and must be routed through the management ranks for approval. It is expected to be approved in 2018.	Copies of approved policy will be forwarded once approved.
6I. Emergency generators, boilers, and hot water heaters have been converted to natural gas.	Prevent hazardous materials from entering the University's stormwater sewer system and other downstream waters.	Boilers and hot water heaters have been converted to natural gas. All emergency generators are powered by natural gas with the exception of one generator at the McDemmond Center which is powered by diesel fuel.	No further plans.

Proposed BMP	Measurable Goal and Effectiveness	Compliance Status	Plans for Next Permit Year
6J. A company with expertise in hazardous materials has been contracted to provide emergency response to incidents requiring additional resources and equipment. They have the added responsibility of over packing primary containers and arranging for transportation to approved disposal sites, recyclers or incinerators.	Assure a release is adequately contained and remediated, storm drains are protected, staff personnel do not become contaminated and disposal protocols are strictly followed.	Semi-annual hazardous material removal completed.	Continue plan as is. Documentation will be provided if necessary.
6K. All trash receptacles will be emptied and refilled with new trash bags when they become full, after the event ends and after the crowds leave. All stormwater inlets in the general area of the events will be checked and trash of all types removed from the inlet. An estimate of the amount of trash collected will be recorded and sites of the greatest accumulations noted.	Reduce the amount of pollutants in the stormwater.	Post event inspections to be scheduled with staff.	Continue plan as is.
6L. Exterior storage: Certain material storage practices include bulk piles of mulch, topsoil, sand and salt. It was recognized that heavy rains can cause the loose materials to flow into street gutters and eventually into stormwater inlets. Currently salt (for icing conditions) and urea fertilizer are received in bags and stored in a grounded storage container. If other lawn and garden supplies cannot be purchased in bags, then provisions will be considered to store such materials under an impervious cover.	Reduce the amount of pollutants in the stormwater. Norfolk State University has retained the services of a private consultant to design for a new series of storage bays for bulk material storage. The design will include adequate containment to prevent materials from spreading out side of the storage bay area.	Construction was completed in late 2016. Maintenance and inspection shall take place as required per the SWPPP for the Maintenance Facility.	Continue with Inspection and Cleaning per the SWPPP.
6M. Education of Staff: Conduct a presentation on stormwater pollution prevention to Facilities Management Staff and have staff complete pollution prevention training.	Increase staff awareness of stormwater and pollution prevention measures and proper BMP and Outfall maintenance. This includes understanding of the differences and appropriate maintenance between the various stormwater BMP types on campus.	Stormwater Pollution and BMP Maintenance training was held on 1/13/17, 3/10/17, 5/31/17, 6/7/17, and 7/25/17. 83, Grounds Staff Member (60%) attended and received training.	Continue plan as is.
6N. Development of on-site BMP Maintenance and Inspection Procedures.	Increase staff awareness of stormwater and pollution prevention measures. This includes the preparation of on-site BMP Maintenance and Inspection Procedures.	On-site BMP Maintenance and Inspection Procedures have been created and implemented. Procedures are maintained within the program.	Continue plan as is. Update as necessary.

10. *Notice that the operator is relying on another government entity to satisfy some of the permit obligations.*

- The University receives technical and regulatory assistance from the Department of Environmental Quality. DEQ reviews individual capital improvement projects for compliance with Virginia Stormwater Management regulations. DEQ also assists in establishing requirements for the Stormwater Master Plan.

- The University reviews technical and regulatory assistance provided by The City of Norfolk Environmental Services Department for the review of Erosion and Sediment (E & S) Control Plans and E & S Control Site Inspections.

11. *The approval status of any programs pursuant to section II C of the General Permit (if applicable), or the progress towards achieving full approval of these programs.*

- Not applicable.

12. *Regulated land-disturbing activities data tracked under Section II B 4 c of the General Permit.*

Table 1: Current Campus Land Disturbing Activities

Approximate Location	Area (Acres)
New Classroom Building (Brown Hall)	10.79 +/-
Total	10.79 +/-

13. *All known permanent stormwater management facility data tracked under Section II B 5 b (6) of the General Permit submitted in a database format to be prescribed by the department. Upon filing of this list, subsequent reports shall only include those new stormwater management facilities that have been brought online.*

- No new stormwater management facilities have been brought on line. See Table 2 below for a list of current facilities.

Table 2: Current Campus Stormwater Basins

Approximate Location	Description	HUC
Lot 10	Retention Basin	JL 54
Spartan Suites	Infiltration Trench	JL 54
Lot 17	Detention Basin	JL 54
Lot 7	Grassed Swale	JL 54
Lot 30	Detention Basin	JL 54
Wilder Performing Arts	Grassed Swale -West	JL 54
Wilder Performing Arts	Grassed Swale -East	JL 54

Hamm Fine Arts	Detention Basin	JL 54
Lots 2 and 3	Retention Basin	JL 54
Student Center	Bioretention	JL 54
Student Center	Underground Storage	JL 54

14. *A list of any new or terminated signed agreements between the operator and any applicable third parties where the operator has entered into an agreement in order to implement minimum control measures or portions of minimum control measures.*

- The University has a contract with Pennoni Associates Inc., who serve as a stormwater management consultant.

15. *Copies of any written comments received during a public comment period regarding the MS4 Program Plan or any modifications.*

- No written comments have been received.

APPENDIX A
ATTACHMENTS

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TIDEWATER AGRONOMICS, INC.

Research Office: 313 Turnpike Road, Belvidere, NC 27919
Tel. 252-297-2010 Fax: 252-297-2010

Consulting Office: 135 Gumberry Road, Camden, NC 27921
Tel. 252-331-1008 Fax: 252-331-2001

Mailing Address: P.O. Box 310, Camden, NC 27921

Stan's cell: 252-333-0212 Matt's cell: 252-312-8495
Website: www.tidewateraf.com
VA CERTIFIED NUTRIENT MANAGEMENT PLANNER #102

NUTRIENT MANAGEMENT PLAN
NORFOLK STATE UNIVERSITY
FACILITIES MANAGEMENT

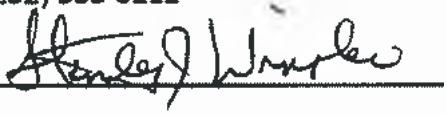
NMP ADMINISTRATOR:

Mr. Daniel Young
Director Facilities Management
Norfolk State University
700 Park Avenue Suite 101
(757) 823-9545
fdyoung@nsu.edu

PLANNER:

Stanley J. Winslow
VA CNMP #102
P.O. Box 310
Camden, NC 27921
(252) 333-0212

Planner Signature:



County: City of Norfolk
Watershed Code: JL 54

Total Area Planned:

Gen. Turf: 2,068,664.4 sq ft
Athletics: 258,310.8 sq ft

Plan Completion Date: March 31, 2017
Plan Expiration Date: March 31, 2019

Table of Content

LOCATION AND UTILIZATION

NORFOLK STATE UNIVERSITY is locating with in the Norfolk City limits. It is built on sandy loam well drained soils. There is no NRCS Soil Series information available for this site. Soils on the campus have been altered by construction and earthmoving projects. As a result, the soils are primarily man-made.

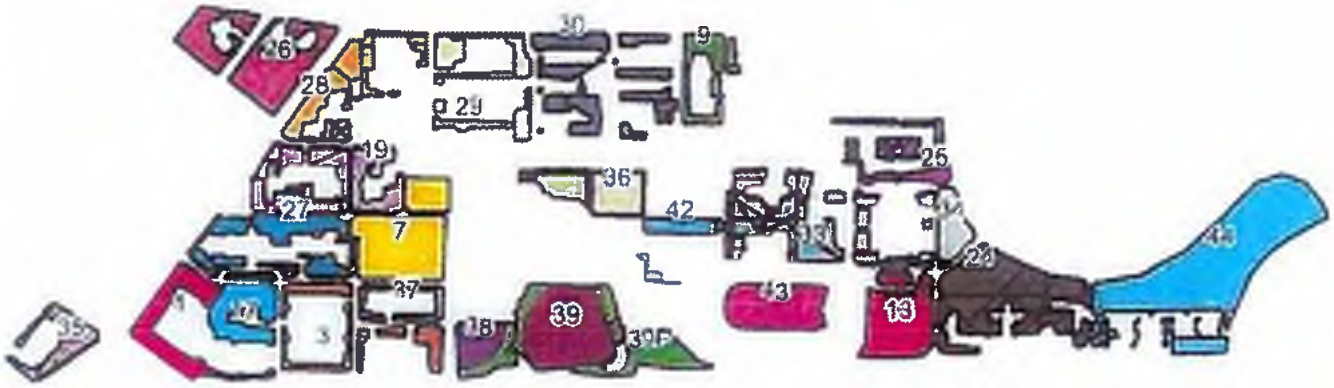
Turf utilization includes general lawn areas and athletic fields. General lawn areas are a mixture of cool season and warm season grasses. Athletic fields are all turf type Bermuda grass. Nutrient management plans are developed accordingly.

TIDEWATER AGRONOMICS, INC.

Current Map

Norfolk State University

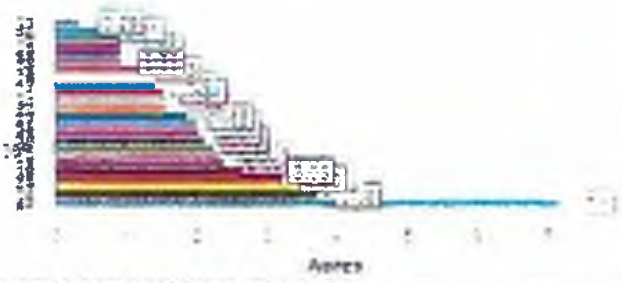
Farm: NSU
Field: Campus
Acres: 52.68
Sampled:
Lab Name: ""



Location:
County: Norfolk, VA
Twp Rng Sec:

Summary Statistics
Layer Name: Sample Procedure
Count: 25

SampleID*

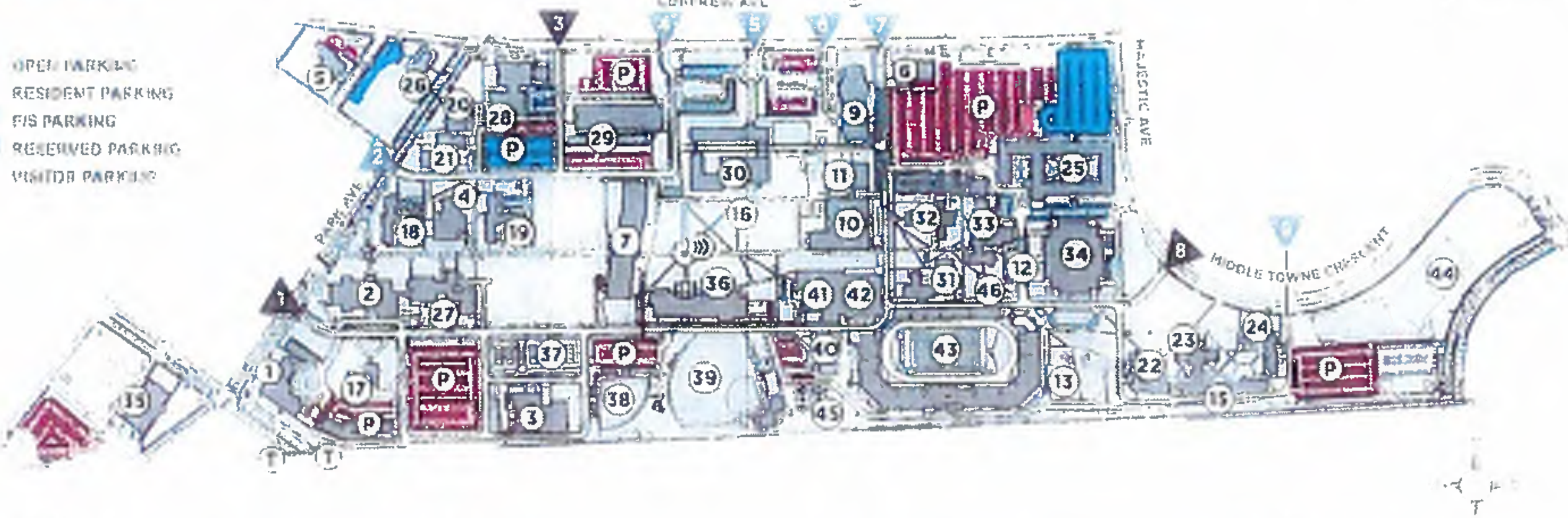


AgStudio

NSU

CAMPUS MAP

OPEN PARKING
RESIDENT PARKING
F/S PARKING
RESERVED PARKING
VISITOR PARKING



STUDENT SERVICES

1. Harrison B. Wilson Hall
   Administration Building
2. L. Douglas Wilder Performing Arts Center
3. Facilities Management Building
4. West Campus Dining Hall
5. Brambleton Community Outreach Center
6. University Police Building
7. Lyman Beecher Brooks Library
8. The Marian and Patricia Smith Alumni House
9. Scott/Dozier Dining Hall
10. Student Center
11. Student Services Center
12. Ticket Office
13. Picnic Area
14. [illegible] Station
15. [illegible] Garden

RESIDENTIAL

17. President's House
18. Samuel F. Scott Hall
19. Rosa A. Alexander Hall
20. Babbette E. Smith North Hall
21. Babbette E. Smith South Hall
22. Charles H. Smith Hall
23. Honors College + Hudnal Residence Hall
24. Lee W. Smith Hall
25. Spartan Suites
26. Phillis Wheatley Hall

EDUCATIONAL

27. E. L. Hamm Fine Arts Building
28. William P. Robinson, Sr.
    Technology Center
29. James A. Bowser Building
30. G.W.C. Brown Memorial Hall
31. J. Hugo Madison Hall
32. Herman R. Bozeman Hall
33. Roy A. Woods Science Building
34. Joseph G. Echols Memorial Hall
35. Harris V. McDermond Center
    for Applied Research
36. Nursing & General Education Building
46. NSU Greenhouse

ATHLETICS FACILITIES

37. Tennis Complex
38. Softball Field
39. Marty Miller Baseball Field
40. Sports Annex
41. James D. Gill Health & Physical Education Bldg
42. Sports Medicine Center
43. William "Dick" Price Football Stadium, Track & Field complex
44. Football Practice Field
45. Basketball Courts

T - The Tide Light Rail Station
[illegible] - Gate
P - Parking
[illegible] - Commuter/Visitor [illegible]

For NSU Parking information, please visit [illegible] or call 757-823-[illegible]

All Visitors/Vendors should obtain a Visitor's Pass from the Parking Office located in the University Police Station, 2501 Corprew Ave., Norfolk, VA 23504, prior to parking on campus.

TIDEWATER AGRONOMICS, INC.

Research Office: 313 Turnpike Road, Belvidere, NC 27919
Tel. 252-297-2010 Fax: 252-297-2010

Consulting Office: 135 Gumberry Road, Camden, NC 27921
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Website: www.tidewaterag.com
VA CERTIFIED NUTRIENT MANAGEMENT PLANNER #102

NUTRIENT MANAGEMENT SPECIFICS

March 31, 2017

1. General Turf areas are set up to receive a total of 2lbs N/1000^2. Note that general turf areas cannot receive over 4lb/1000^2 in a year. If 1 lb N applied/application it must be 15% slow release Athletic fields will be set up to receive 3.5 lb/1000 total N. If fields are sand-based application cannot exceed .35 lb/1000 in a single application of water soluble N.

2. Phosphorus levels are slowly declining you have been doing a good job of reducing phosphorus application. General turf areas still don't need Phosphorus, but Athletic field should now receive 1-1.5 lb P_2O_5/Year to maintain P at adequate levels.

3. Most areas have pHs of 6.0 or higher and will not need lime. Many pHs one 6.5 or higher. Please ise 21-0-0-24 as your N source. This will help reduce pH and reduce leaching. Zones 13, 30, 39, 39P,43 have pH <6.0and need 23 lb/1000ft^2 dolomitic lime.

4. Request that each fertilizer analysis include 4-7% sulfur. Sulfur will help maintain a dark green color and improve N utilization. The 21-0-0 recommended is actually 21-0-0-21 (ammonium sulfate), which will supply abundant sulfur. This material will also help lower pH on sample areas above 6.5.

5. In order to better achieve these nutrient management goals, consider applying herbicides as a separate application from fertilizers. This will allow more flexibility in getting the analysis needed.

6. Make all employees aware of storm drain openings. Cover the openings to all storm drains when applying fertilizers. Also, blow off all paved surfaces following fertilizer

applications. These practices will keep nutrients from flushing directly into surface waters with a rainfall event.

7. Avoid applying nutrients immediately in advance of a predicted large rain event. Thunderstorm type rains can dissolve surface applied Nitrogen, moving some of it into surface waters.

8. Soil samples should be taken and analyzed at least every two years to keep soil pH at optimum levels and to track Phosphorus indexes.

NORFOLK STATE UNIVERSITY

2016 Soil Sample Key

Sample Code

1) Harrison B. Wilson Hall Administration Building

3) Facilities Maintenance Building and Parking Area

7) Lyman Beecher Brooks Library (Intramural)

9) Mary Scott/Dozier Dining Hall and Police Station

13) Picnic Area

17) President's House

19) West Campus Dining Hall/Samuel F. Scott Hall/Rosa A. Alexander Hal

24) Spartan Station/Charles H. Smith Hall/Honor's College/Lee W. Smith Hall

25) Spartan Suites

26) Brambleton Community Outreach Center/Phillis Wheatley Hall

27) L. Douglas Wilder Performing Arts Center/E.L. Hamm Fine Arts Building

28) Babbette B. Smith North Hall/South Hall/William P. Robinson Technology Center

29) James A. Bowser Building

30) G.W.C. Brown Memorial Hall

33) Ticket Office/J. Hugo Madison Hall/Bozeman Building/Roy A. Woods Science Bldg

34) Joseph G. Echols Memorial Hall

35) Marie V. McDemmond Center

36) Nursing Building/ White Memorial Garden (includes student centers)

37) Tennis Complex

38) Softball Field

39) Marty Miller Baseball Field

39P) Football and Baseball Field Parking Area

42) James D. Gill Health & Phys. Ed. Bldg/Sports Medicine Center

43) William "Dick" Price Football Stadium

44) Football Practice Field

2016 NORFOLK STATE UNIVERSITY
pH & LIME CHART

Sample Code	pH *	Lime Rate **
1	7.2	0
3	7.6	0
7	6.0	0
9	6.0	0
13	5.9	23
16	6.6	0
17	6.2	0
19	6.9	0
24	6.1	0
25	7.0	0
26	6.3	0
27	6.1	0
28	6.3	0
29	6.1	0
30	5.7	23
33	6.4	0
34	6	0
35	7.4	0
36	6.6	0
37	6.5	0
38	6.4	0
39	5.9	23
39P	5.9	23
42	6.6	0
43	5.9	23
44	6.5	0

*** Note that optimum pH is 6.0-6.5. Many are much higher. Do not apply lime to areas with a pH above 6.5.**

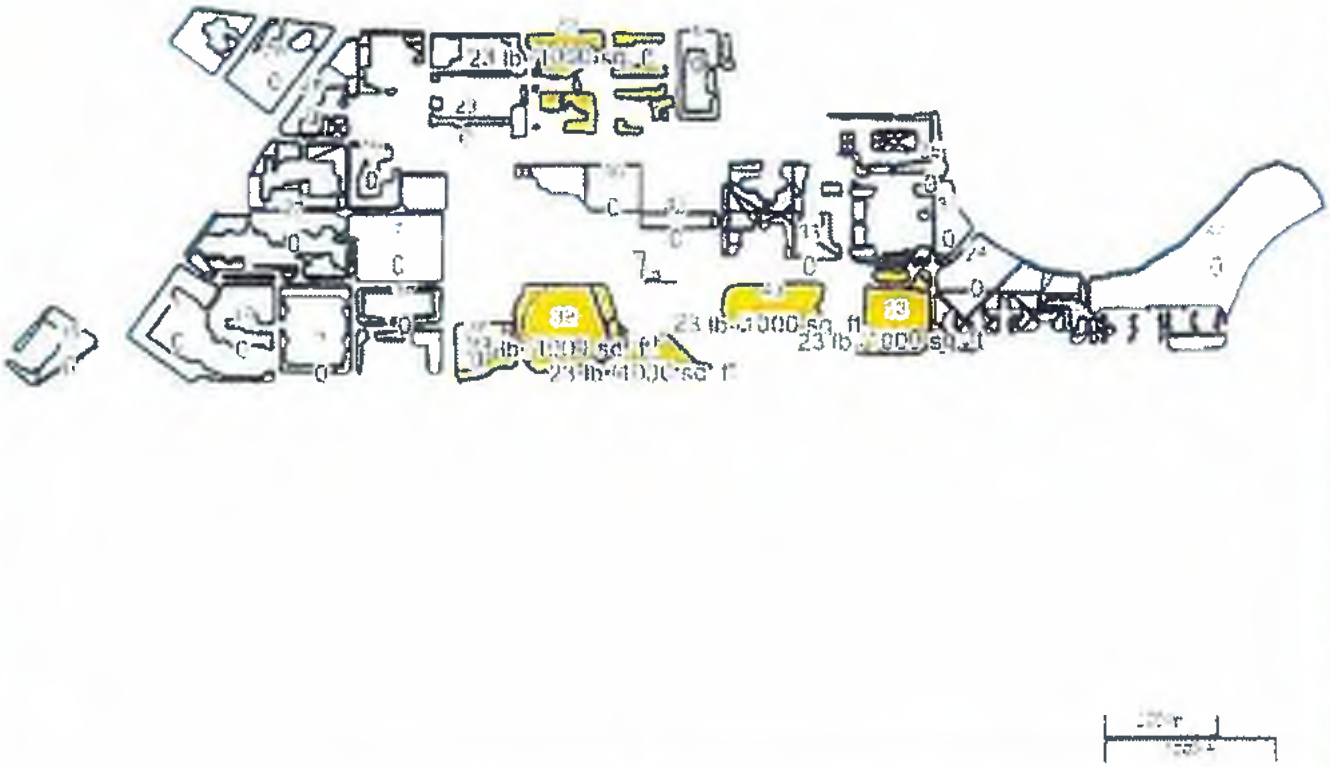
TIDEWATER AGRONOMICS, INC.

Current Map

Norfolk State University

Farm: NSU
Field: Campus

Acres: 52.68
Sampled:
Lab Name:



Location:
County: Norfolk, VA
Twp Rng Sec:

Summary Statistics
Layer Name: Sample Procedure
Count: 25

Lime1000SqFt

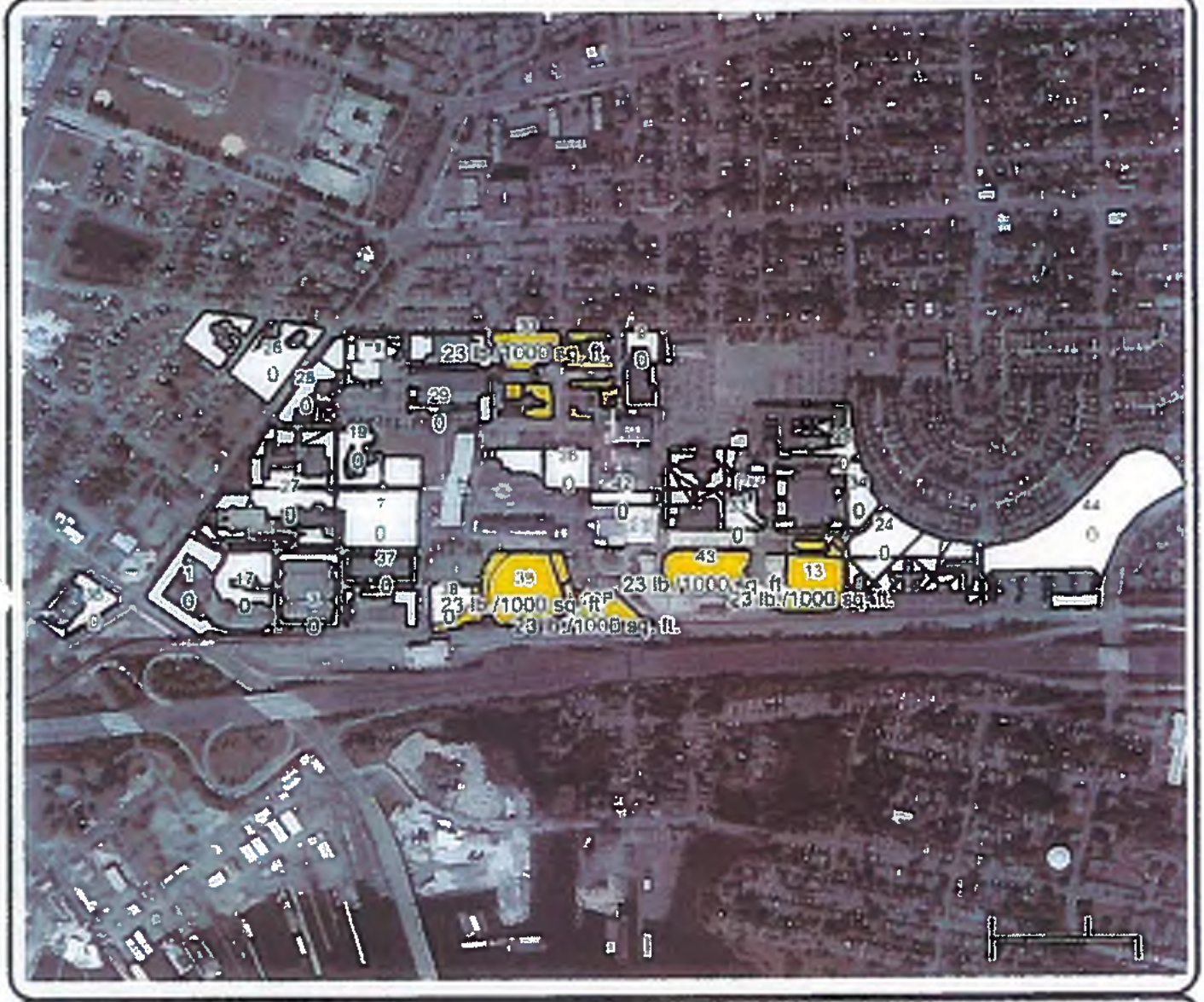
TIDEWATER AGRONOMICS, INC.

Current Map

Norfolk State University

Farm: NSU
Field: Campus

Acres: 52.68
Sampled:
Lab Name: ""



Location:
County: Norfolk, VA
Twp Rng Sec:

Summary Statistics
Layer Name: Sample Procedure
Count: 25

Lime1000SqFt

AgStudio

Nutrient Application Worsheet 2017

Agency: *Norfolk State University*	Management Area ID: *Football, Baseball, Softball Fields*
Date Prepared: *3/31/2017*	Size in Ft^2: *258,311*

Month/Date/Year	Fertilizer (lbs./1000 sq. ft.)	Fertilizer Analysis (N-P-K)	Nitrogen (lbs./1000 sq.ft.)	P_2O_5 (lbs./1000 sq. ft.)	K_2O (lbs./1000 sq. ft)
1-May-17	3.4 lbs	10-10-10	0.34	0.34	0.34
15-May-17	1.6 lbs	21-0-0	0.34	0	0
1-Jun-17	1.6 lbs	21-0-0	0.34	0	0
15-Jun-17	2.25 lbs	15-0-15	0.34	0	0.34
1-Jul-17	3.4 lbs	10-10-10	0.34	0.34	0.34
15-Jul-17	2.25 lbs	15-0-15	0.34	0	0.34
1-Aug-17	1.6 lbs	21-0-0	0.34	0	0
15-Aug-17	2.25 lbs	15-0-15	0.34	0	0.34
1-Sep-17	1.6 lbs	21-0-0	0.34	0	0.34
15-Sep-17	1.6 lbs	21-0-0	0.34	0	0
Total			3.4	0.68	2
DCR Allowed Maximums			5.0 (A)	0.75	1.0 (B)

Key
N-P-K=Fertilizer Analysis N=Nitrogen P=P2O5=Phosphate K=K2O=Potash

Note:

1) Athletic fields are turf bermuda
2) Note that fertilizer applications are divided into 15 day intervals. This eliminates over application at any one time. All N recommendations are water soluble. If you chose to use slow release N releases less frequently. The product must be 50% slow release and cannot exceed more than .7lbN/1000sqft in a single application. After September 15 actual N rate cannot exceed .5lb/1000sqft.
3) Applications cannot be closer than 15 days.
4) All N recommended above is water soluble.
5) P_2O_5 recommendations are strictly maintenance amounts based on the lowest rates as calculated from the soil test results.

A- 5 lb N allowed per season for areas where first killing frost is after October 20.

B- Extra K is suggested due to sand based fields which are subject to leaching loss from rainfall and irrigation.

Nutrient Application Worsheet 2018

Agency: *Norfolk State University*	**Management Area ID:** *Football, Baseball, Softball Fields*
Date Prepared: *3/31/2017*	**Size in Ft^2:** *258,311*

Month/Date/Year	Fertilizer (lbs./1000 sq. ft.)	Fertilizer Analysis (N-P-K)	Nitrogen (lbs./1000 sq.ft.)	P_2O_5 (lbs./1000 sq. ft.)	K_2O (lbs./1000 sq. ft)
1-May-18	3.4 lbs	10-10-10	0.34	0.34	0.34
15-May-18	1.6 lbs	21-0-0	0.34	0	0
1-Jun-18	1.6 lbs	21-0-0	0.34	0	0
15-Jun-18	2.25 lbs	15-0-15	0.34	0	0.34
1-Jul-18	3.4 lbs	10-10-10	0.34	0.34	0.34
15-Jul-18	2.25 lbs	15-0-15	0.34	0	0.34
1-Aug-18	1.6 lbs	21-0-0	0.34	0	0
15-Aug-18	2.25 lbs	15-0-15	0.34	0	0.34
1-Sep-18	1.6 lbs	21-0-0	0.34	0	0.34
15-Sep-18	1.6 lbs	21-0-0	0.34	0	0
Total			3.4	0.68	2
DCR Allowed Maximums			5.0 (A)	0.75	1.0 (B)

Key

N-P-K=Fertilizer Analysis
N=Nitrogen
P=P2O5=Phosphate
K=K2O=Potash

Note:

1) Athletic fields are turf bermuda

2) Note that fertilizer applications are divided into 15 day intervals. This eliminates over application at any one time. All N recommendations are water soluble. If you chose to use slow release N releases less frequently. The product must be 50% slow release and cannot exceed more than .7lbN/1000sqft in a single application. After September 15 actual N rate cannot exceed .5lb/1000sqft.

3) Applications cannot be closer than 15 days.

4) All N recommended above is water soluble.

5) P_2O_5 recommendations are strictly maintenance amount based on the lowest rates as calculated from the soil test results.

A- 5 lb N allowed per season for areas where first killing frost is after October 20.

B- Extra K is suggested due to sand based fields which are subject to leaching loss from rainfall and irrigation.

Nutrient Application Worsheet 2019

Agency: *Norfolk State University*	**Management Area ID:** *Football, Baseball, Softball Fields*
Date Prepared: *3/31/2017*	**Size in Ft^2:** *258,311*

Month/Date/Year	Fertilizer (lbs./1000 sq. ft.)	Fertilizer Analysis (N-P-K)	Nitrogen (lbs./1000 sq.ft.)	P_2O_5 (lbs./1000 sq. ft.)	K_2O (lbs./1000 sq. ft)
1-May-19	3.4 lbs	10-10-10	0.34	0.34	0.34
15-May-19	1.6 lbs	21-0-0	0.34	0	0
1-Jun-19	1.6 lbs	21-0-0	0.34	0	0
15-Jun-19	2.25 lbs	15-0-15	0.34	0	0.34
1-Jul-19	3.4 lbs	10-10-10	0.34	0.34	0.34
15-Jul-19	2.25 lbs	15-0-15	0.34	0	0.34
1-Aug-19	1.6 lbs	21-0-0	0.34	0	0
15-Aug-19	2.25 lbs	15-0-15	0.34	0	0.34
1-Sep-19	1.6 lbs	21-0-0	0.34	0	0.34
15-Sep-19	1.6 lbs	21-0-0	0.34	0	0
Total			3.4	0.68	2
DCR Allowed Maximums			5.0 (A)	0.75	1.0 (B)

Key
N-P-K=Fertilizer Analysis N=Nitrogen P=P2O5=Phosphate K=K2O=Potash

Note:

1) Athletic fields are turf bermuda

2) Note that fertilizer applications are divided into 15 day intervals. This eliminates over application at any one time. All N recommendations are water soluble. If you chose to use slow release N releases less frequently. The product must be 50% slow release and cannot exceed more than .7lbN/1000sqft in a single application. After September 15 actual N rate cannot exceed .5lb/1000sqft.

3) Applications cannot be closer than 15 days.

4) All N recommended above is water soluble.

5) P_2O_5 recommendations are strictly maintenance amounts based on the lowest rates as calculated from the soil test results.

A- 5 lb N allowed per season for areas where first killing frost is after October 20.

B- Extra K is suggested due to sand based fields which are subject to leaching loss from rainfall and irrigation.

Nutrient Application Worsheet

Agency: *Norfolk State University*	**Management Area ID:** *All areas except Athletic Fields*
Date Prepared: *3/31/2017*	**Size in Ft^2:** *2,068,664.4*

Year/Month	Fertilizer to Apply (lbs./1000 sq. ft.)	Fertilizer Analysis (N-P-K)	Nitrogen to Apply (lbs./1000 sq.ft.)	P_2O_5 to Apply (lbs./1000 sq. ft.)	K_2O Apply (lbs./1000 sq. ft)
17-Apr	4.5 lbs	15-0-15	0.68	0	0.68
17-Jun	3.25 lbs	21-0-0	0.68	0	0
17-Aug	3.25 lbs	21-0-0	0.68	0	0
18-Apr	4.5 lbs	15-0-15	0.68	0	0.68
18-Jun	3.25 lbs	21-0-0	0.68	0	0
18-Aug	3.25 lbs	21-0-0	0.68	0	0
19-Apr	4.5 lbs	15-0-15	0.68	0	0.68
19-Jun	3.25 lbs	21-0-0	0.68	0	0
19-Aug	3.25 lbs	21-0-0	0.68	0	0
DCR Allowed Maximums			4.00	0.50	0.75

Key
N-P-K=Fertilizer Analysis
N=Nitrogen
P=P_2O_5=Phosphate
K=K_2O=Potash

****This includes Football Practice Field****

Notes:

1) General Turf areas are mixed fescue/common bermuda/crab grass.

2) No P_2O_5 required. K_2O rates are maintenance only

Commonwealth of Virginia

Virginia Nutrient Management Standards and Criteria

Revised July 2014

Department of Conservation and Recreation
Division of Soil and Water Conservation
600 East Main Street, 4th floor
Richmond, VA 23219

(804) 786-2064

Section VI. Turfgrass Nutrient Recommendations for Home Lawns, Office Parks, Public Lands and Other Similar Residential/Commercial Grounds

Definitions

For the purposes of this section, the following definitions, as presented by the Association of American Plant Food Control Officials (AAPFCO), apply:

"Enhanced efficiency fertilizer" describes fertilizer products with characteristics that allow increased plant nutrient availability and reduce the potential of nutrient losses to the environment when compared to an appropriate reference product.

"Slow or controlled release fertilizer" means a fertilizer containing a plant nutrient in a form which delays its availability for plant uptake and use after application, or which extends its availability to the plant significantly longer than a reference "rapidly available nutrient fertilizer" such as ammonium nitrate, urea, ammonium phosphate or potassium chloride. A slow or controlled release fertilizer must contain a minimum of 15 percent slowly available forms of nitrogen.

"Water soluble nitrogen", "WSN", or "readily available nitrogen" means: Water soluble nitrogen in either ammonical, urea, or nitrate form that does not have a controlled release, or slow response.

Recommended Season of Application For Nitrogen Fertilizers - Applies to all Turf

A nitrogen fertilization schedule weighted toward fall application is recommended and preferred for agronomic quality and persistence of cool season turfgrass; however, the acceptable window of applications is much wider than this for nutrient management. The nutrient management recommended application season for nitrogen fertilizers to cool season turfgrasses begins six weeks prior to the last spring average killing frost date and ends six weeks past the first fall average killing frost date (see Figures 6-1 & 6-2). Applications of nitrogen during the intervening late fall and winter period should be avoided due to higher potential leaching or runoff risk, but where necessary, apply no more than 0.5 pounds per 1,000 ft^2 of water soluble nitrogen within a 30-day period. Higher application rates may be used during this late fall and winter period by using materials containing slowly available sources of nitrogen, if the water soluble nitrogen contained in the fertilizer does not exceed the recommended maximum of 0.5 pounds per 1,000 ft^2 rate. Do not apply nitrogen or phosphorus fertilizers when the ground is frozen.

The acceptable nitrogen fertilizer application season for non-overseeded warm season turfgrass begins no earlier than the last spring average killing frost date and ends no later than one month prior to the first fall average killing frost date (see Figures 6-1 & 6-2).

Figure 6-1

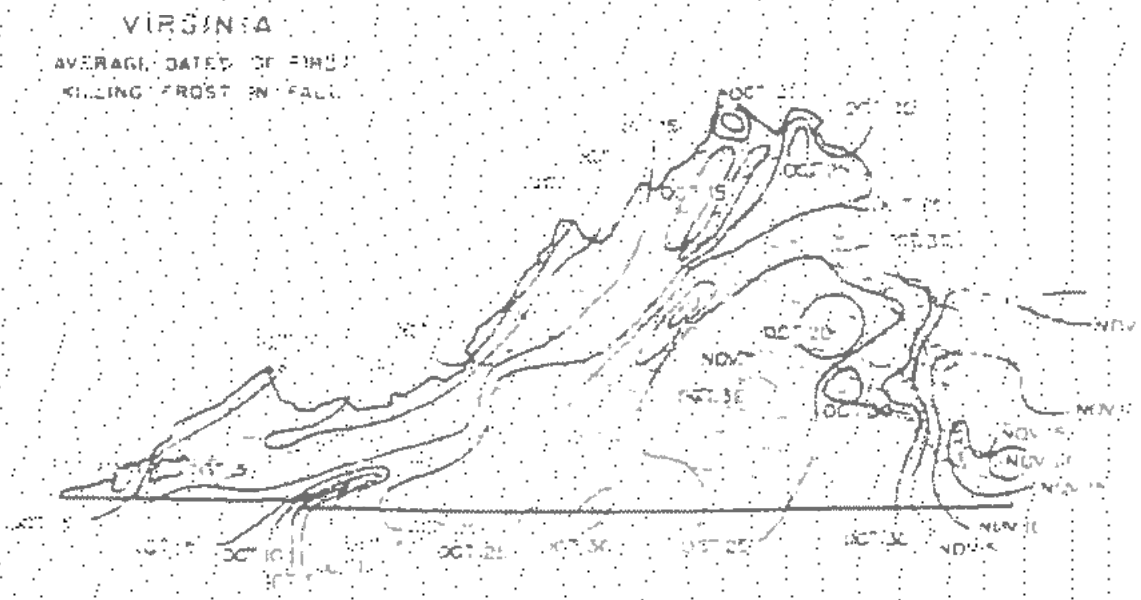
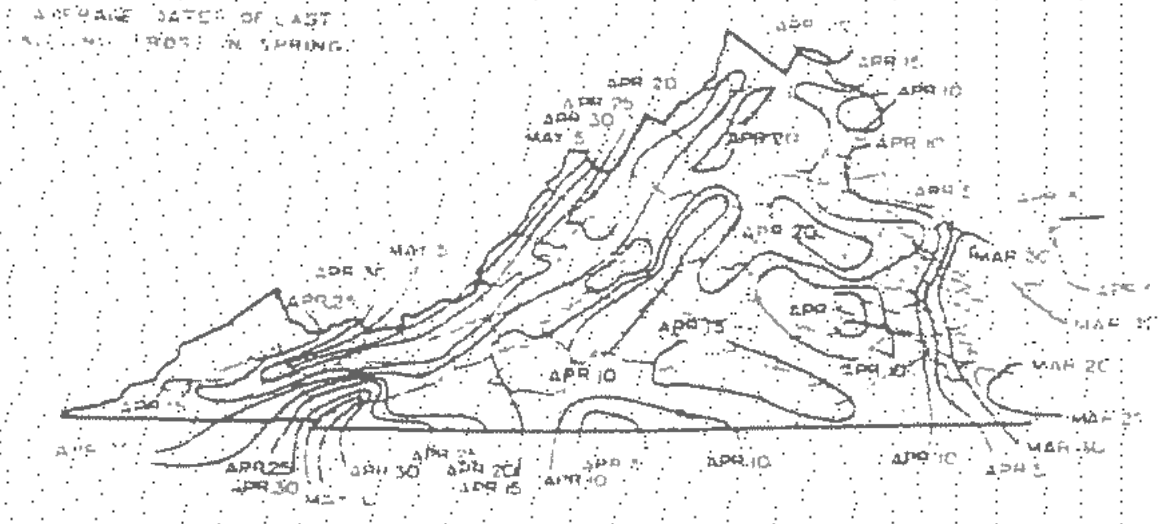


Figure 6-2



Per Application Rates

Do not apply more than 0.7 pounds of water soluble nitrogen per 1,000 ft^2 within a 30-day period. For cool season grasses, do not apply more than 0.9 pounds of total nitrogen per 1,000 ft^2 within a 30-day period. For warm season grasses, do not apply more than 1.0 pounds of total nitrogen per 1,000 ft^2 within a 30-day period. Lower per application rates of water soluble nitrogen sources or use of slowly available nitrogen sources should be ut ilized on very permeable sandy soils, shallow soils over fractured bedrock, or areas near water wells.

Annual Application Rates for Home Lawns and Commercial Turf

Up to 3.5 pounds per 1,000 ft^2 of nitrogen may be applied annually to cool season grass species or up to 4 pounds per 1,000 ft^2 may be applied annually to warm season grass species using 100 percent water soluble nitrogen sources. Lower rates of nitrogen application may be desirable on those mature stands of grasses that require less nitrogen for long-term quality. As a result, lower application rates will probably be more suited to the fine leaf fescues (hard fescue, chewings fescue, creeping red fescue, and sheep fescue) and non-overseeded zoysiagrass. Lower rates should also be used on less intensively managed areas.

Use of Slowly Available Forms of Nitrogen

For slow or controlled release fertilizer sources, or enhanced efficiency fertilizer sources, no more than 0.9 pounds of nitrogen per 1,000 ft^2 may; be applied to cool season grasses within a 30-day period and no more than 1.0 pounds of nitrogen per 1,000 ft^2 may be applied to warm season grasses within a 30-day period.

Provided the fertilizer label guarantees that the product can be used in such a way that it will not release more than 0.7 pounds of nitrogen per 1,000 ft^2 in a 30-day period, no more than 2.5 pounds of nitrogen per 1,000 ft^2 may be appl ied in a single application. Additionally, total annual applications shall not exceed 80 percent of the annual nitrogen rates for cool or warm season grasses.

Phosphorus and Potassium Nutrient Needs (Established Turf)

Apply phosphorus (P_2O_5) and potassium (K_2O) fertilizers as indicated necessary by a soil test using the following guidelines:

Soil Test Level	Nutrient Needs (pounds per 1,000 ft^2)*	
	P_2O_5	K_2O
L	2-3	2-3
M	1-2	1-2
H	0.5-1	0.5-1
VH	0	0

* For the lower soil test level within a rating, use the higher side of the range and for higher soil test level within a rating use the lower side of the recommendation range. (For example the recommendation for a P_2O_5 soil test level of L- would be 3 pounds per 1,000 ft^2.)

Do not use high phosphorus ratio fertilizers such as 10-10-10 or 5-10-10, unless soil tests indicate phosphorus availability below the M+ level.

Recommendations for Establishment of Turf

These recommendations are for timely planted turfgrass, that is, the seed or vegetative material (sod, plugs, and /or sprigs), are planted at a time of the year when temperatures and moisture are adequate to maximize turfgrass establishment. These recommended establishment periods would be late summer to early fall for cool-season turfgrasses and late spring through mid-summer for warm-season turfgrasses.

Nitrogen Applications

At the time of establishment, apply no more than 0.9 pounds per 1,000 ft^2 of total nitrogen for cool season grasses or 1.0 pounds per 1,000 ft^2 of total nitrogen for warm season grasses, using a material containing slowly available forms of nitrogen, followed by one or two applications beginning 30 days after planting, not to exceed a total of 1.8 pounds per 1,000 ft^2 total for cool season grasses and 2.0 pounds per 1,000 ft^2 for warm season grasses for the establishment period. Applications of WSN cannot exceed more than 0.7 pounds per 1,000 ft^2 within a 30-day period.

Phosphorus and Potassium Recommendations for Establishment

Soil Test Level	Nutrient Needs (pounds per 1,000 ft^2) *	
	P_2O_5	K_2O
L	3-4	2-3
M	2-3	1-2
H	2-1	0.5-1
VH	0	0

* For the lower soil test level within a rating, use the higher side of the range and for higher soil test level within a rating use the lower side of the recommendation range.

Nutrient Recommendations for Golf Courses

Nitrogen Timing

The beginning and ending dates for application of nitrogen shall be determined using guidance and frost date maps contained in the Season of Application for Nitrogen section, Figures 6-1 and 6-2.

If the full rate or the highest rate of the recommendation range for a monthly application is applied in a single application, then the interval of application for nitrogen shall be at least 30 days to allow turf to utilize previous nitrogen applications. If several applications are to be made for the monthly nitrogen rate, then the timing of the applications shall be at approximately even intervals, with the rate per application to be evenly divided between each application with the total nitrogen applied not to exceed the maximum monthly rate. Use of Water Insoluble Nitrogen forms of Nitrogen is encouraged.

Nitrogen Rates

	Grass Type	Maximum WSN Rate Per Application - pounds per 1,000 ft^2	Total Annual Nitrogen Rate - pounds per 1,000 ft^2 [a]
Greens		0.7 [b]	3-6
Tees		0.7 [b]	2-5
Fairways	Cool Season	0.7 [c]	2-3
	Warm Season	0.7 [c]	3-4
Fairways – Intensive Management	Cool Season	0.5 [b]	3-4
	Warm Season	0.5 [b]	3.5-4.5
Overseeding Warm Season Fairways		.5	1.25
Roughs		0.7 [b]	1-3

Fairways-Overseeding Warm Season Fairways

- For warm season grasses, up to 0.7 pounds of nitrogen per 1,000 ft^2 in a 30-day period may be applied in the Fall after perennial ryegrass overseeding is well established. An additional nitrogen application of 0.7 pounds per 1,000 ft^2 may be made in February-March to overseeded perennial ryegrass if growth and color indicate need. Applications using WSN may not exceed 0.7 pounds per 1,000 ft^2 within a 30-day period.

- Soluble nitrogen rates of 0.25 pounds per 1,000 ft^2 or less which may be a component of a pesticide or minor element application, may be applied any time during the application windows described in Recommended Season of Application for Nitrogen Fertilizers of this section, but must be considered with the total annual nitrogen application rate.

(a)Use higher rates for intensively used turf where accelerated growth and/or rapid recovery are required, use lower rates for maintenance of lesser used areas; do not exceed total annual nitrogen levels as stated above.

(b) Greens and Tees – Per application timing must be a minimum of 30 days between applications. A rate of 0.9 pounds per 1,000 ft^2 of total nitrogen may be applied for cool season grasses or 1.0 pounds per 1,000 ft^2 of total nitrogen may be applied for warm season grasses using a material containing slowly available forms of nitrogen.

(c) Fairways-Normal Management (Non-Irrigated or Irrigated) - Per Application timing must be a minimum of 30 days between applications. Total nitrogen application rates of 0.9 pounds per 1,000 ft^2 of total nitrogen may be applied for cool season grasses or 1.0 pound per 1,000 ft^2 of total nitrogen may be applied for warm season grasses using a material containing slowly available forms of nitrogen.

(d) Fairways-Intensive Management (Irrigated)- Per Application timing must be a minimum of 15 days between applications. This option requires optimized timing of more frequent applications of nitrogen with lesser rates per application. Alternatively, a maximum application rate of 0.9 pounds per 1,000 ft^2 of total nitrogen for cool season grasses or 1.0 pounds per 1,000 ft^2 of total nitrogen for warm season grasses using a material containing slowly available forms of nitrogen may be applied with a minimum of 30 days between applications.

(e) Foliar fertilizer may be applied to warm season grasses within 30 days prior to the first killing frost in the fall, at a rate not to exceed 0.1 pounds per 1,000 ft^2 of nitrogen per application. This application must be accounted for in the total annual nitrogen rate.

Phosphorus and Potassium Recommendations for Established Golf Courses

Apply phosphorus (P_2O_5) and potassium (K_2O) fertilizers as indicated by a soil test using the following guidelines:

Soil Test Level	Nutrient Needs (pounds per 1,000 ft^2)*	
	P_2O_5	K_2O
L	2-3	2-3
M	1-2	1-2
H	0.5-1	0.5-1
VH	0	0

* For the lower soil test level within a rating, use the higher side of the range and for higher soil test level within a rating use the lower side of the recommendation range.

- For irrigated turf grown on Naturally Occurring and Modified Sand Based soils only, up to 0.5 pounds of P_2O_5 per 1,000 ft^2 may be applied, if needed, to aid in recovery of damaged turf during times of extreme use. No phosphorus applications shall be made when the soil phosphorus test level is above 65% saturation, based on the soil test phosphorus values and region as listed in Table 4-1 of Section IV.

- Avoid the general use of high phosphorus ratio fertilizers such as 10-10-10 or 5-10-10, unless soil tests indicate phosphorus availability below the M+ level.

Nitrogen Management on Athletic Fields - Cool Season Grasses

- This program is intended for those fields which are under heavy use.

- Nitrogen recommendations are based on the assumption that there is adequate soil moisture to promote good turf growth at the time of application. If no rainfall has occurred since the last application, further applications should be delayed until significant soil moisture is available.

Cool Season Grasses	Maintenance Program[a]	
	Normal	Intensive
When to Apply[b]	Pounds per 1,000 ft^2 Nitrogen	
After August 15	------	0.5
September	0.7	0.7[c]
October	0.7[c]	0.7[c]
November	0.5	0.7[c]
April 15 - May 15	0.5	0.5
June 1 - June 15	----	0.5

Notes:

- Soluble nitrogen rates of 0.25 pounds per 1,000 ft^2 or less which may be a component of a pesticide or minor element application may be applied any time the turf is actively growing, but must be considered with the total annual nitrogen application rate.
- WSN = water soluble nitrogen; WIN = water insoluble nitrogen

(a) Intensive managed areas must be irrigated.

(b) The beginning and ending dates for application of nitrogen shall be determined using guidance and frost date maps contained in the preceding Season of Application for Nitrogen section, using Figures 6-1 and 6-2.

(c) Rates up to 0.9 pounds per 1,000 ft^2 of total nitrogen can be applied using a material containing slowly available forms of nitrogen, with a minimum of 30 days between applications.

(d) Make this application only if turf use warrants additional nitrogen for sustaining desirable growth and /or color.

Nitrogen Management on Athletic Fields - Warm Season Grasses

The following comments apply to both Naturally Occurring or Modified Sand based Fields and Predominantly Silt/Clay Soil Fields:

- Annual nitrogen rates for warm season grasses shall not exceed **4 pounds** in areas which have the average first killing frost on or before October 20, and shall not exceed 5 **pounds** in areas which have the average first killing frost after October 20 as shown in Figure 6-1. Nitrogen rates and timings for overseeding warm season grasses are not included in these rates.
- April 15 - May 15 applications should not be made until after complete green-up of turf.
- Nitrogen applications June through August should be coordinated with anticipated rainfall if irrigation is not available.
- Use the lower end of the ranges for non-irrigated fields and the higher end of the ranges should be used on fields with irrigation.

- Nitrogen rates towards the higher end of the ranges may be applied on heavily used fields to accelerate recovery, however per application and annual rates cannot be exceeded.

Bermudagrass - Predominantly Silt/Clay Soil Fields [a]		
When to Apply[b]	Pounds per 1,000 ft^2 Nitrogen[c]	First Fall Killing Frost Date[b]
April 15 - May 15	0.5- 0.7[(c)]	Before Oct. 20
June	0.7	
July	0.5 – 0.7 [(d)]	
August	0.5 - 0.7 [(d)]	
Sept 1 - Sept 15	0.5 -0.7 [(c)]	After Oct. 20
If overseeded with perennial ryegrass		
Oct - Nov	0.5 [(e)]	
Feb-Mar	0.5 [(e)]	

Bermudagrass - Naturally Occurring or Modified Sand based Fields [a]		
When to Apply[b]	Pounds per 1,000 ft^2 Nitrogen	First Fall Killing Frost Date[b]
April 15 - May 15	0.5 -0.7[(c)]	Before Oct. 20
June1	0.7[(c)]	
July	0.7[(c)]	
August	0.7[(c)]	
Sept 1 - Sept 15	0.7[c]	After Oct. 20
If overseeded with perennial ryegrass		
Oct - Nov	0.5 [(e)]	
Feb - Mar	0.5 [(e)]	

The following notes apply to both of the Bermudagrass tables above:

(a) In the Piedmont and the Ridge and Valley areas of Virginia, the existing native soil will normally be comprised predominantly of clay and/or silt and these soils have inherently lower water infiltration and percolation rates and greater nutrient holding capacity. However, most areas of the Coastal Plain have existing native soils that are predominantly sandy textured soils and other facilities throughout the state may choose to install modified soil root zones that are predominantly sand (>50%) in order to maximize drainage and reduce compaction tendency. If subsurface drain tile surrounded by sand and/or gravel has been installed under the playing surface of any of these fields, their nitrogen programs should be managed as predominantly sand-based systems to minimize nutrient leaching.

(b) The beginning and ending dates for application of nitrogen shall be determined using guidance and frost date maps contained in the Season of Application for Nitrogen section, Figures 6-1 and 6-2.

(c) WSN must be applied as two applications not to exceed 0.35 pounds per 1,000 ft^2 each with a minimum of 15 days between applications. Alternatively, using a material that contains slowly available nitrogen sources, split applications of 0.5 pounds per 1,000 ft^2 may be applied with a minimum of 15 days between applications.

(d) If a material containing slowly available forms of nitrogen is used, rates up to 1.0 pounds of nitrogen per 1,000 ft^2 may be applied in a single application with a minimum of 30 days between applications.

(e) For overseeded warm season grasses, an additional 0.7 pounds per 1,000ft^2 of WSN may be applied in the Fall after the perennial ryegrass overseeding is well established. The WSN must be applied as two applications not to exceed 0.35 pounds per 1,000 ft^2 of nitrogen each, with a minimum of 15 days between applications. Additional WSN application of 0.5 pounds per 1,000 ft^2 may be made in February-March to overseeded perennial ryegrass if growth and color indicate need. Alternatively, split applications of 0.5 pounds of nitrogen per 1,000 ft^2 each with a minimum of 15 days between applications may be applied using a material containing slowly available nitrogen sources.

Phosphorus and Potassium Recommendations Athletic Fields
Apply phosphorus (P_2O_5) and potassium (K_2O) fertilizers as indicated by a soil test using the following guidelines:

Soil Test Level	Nutrient Needs (pounds per 1,000 ft^2)*	
	P_2O_5	K_2O
L	2-3	2-3
M	1-2	1-2
H	0.5-1	0.5-1
VH	0	0

* For the lower soil test level within a rating, use the higher side of the range and for higher soil test level within a rating use the lower side of the recommendation range.

- For irrigated turf grown on Naturally Occurring and Modified Sand Based soils only, up to 0.5 pounds of P_2O_5 per 1,000 ft^2 may be applied, if needed, to aid in recovery of damaged turf during times of extreme use. No phosphorus applications shall be made when the soil phosphorus test level is above 65% saturation, based on the soil test phosphorus values and region as listed in Table 4-1 of Section IV.

- Avoid the general use of high phosphorus ratio fertilizers such as 10-10-10 or 5-10-10, unless soil tests indicate phosphorus availability below the M+ level.

Establishment/Grow-In Recommendations for Golf Courses, Athletic Fields, and Sod Production

(These rates replace normal maintenance fertilizer applications that would have occurred during these time periods.)

Warm Season Grasses:

Predominantly Silt/Clay Soils

- Plant Date - late May -June for sprigs, plugs, sod, or seeding.
- Apply P_2O_5 and K_2O as needed based on soil test recommendations, incorporate into the top 2 inches if possible.
- At Planting - Up to 1.0 pounds of nitrogen per 1,000 ft^2 using a material containing slowly available forms of nitrogen may be applied as one application or lesser amounts applied at regular intervals, through the first 4 weeks, not to exceed a total of 1.0 pounds of nitrogen per 1,000ft^2.
- Four weeks after planting - 0.25 pounds of WSN per 1,000 ft^2 per week for the next 4 weeks.

Naturally Occurring or Modified Sand Based Soils

- Plant Date - late May -June for sprigs, plugs, sod, or seeding.
- Apply P_2O_5 and K_2O as needed based on soil test recommendations, incorporate into the top 2 inches if possible.
- At Planting - Up to 1.0 pounds of nitrogen per 1,000 ft^2 using a material containing slowly available forms of nitrogen may be applied as one application or lesser amounts at regular intervals through the first 4 weeks, not to exceed a total of 1.0 pounds of nitrogen per 1,000 ft^2.
- Four weeks after planting - 0.25 pounds per1,000 ft^2 using a material containing slowly available forms of nitrogen per week for the next 4 weeks.

Cool Season Grasses:

Predominantly Silt/Clay Soils

- Plant Date - August - September (preferred)
- Apply P_2O_5 and K_2O as needed based on soil test recommendations, incorporate into the top 2 inches if possible.
- At Planting - up to 0.9 pounds of nitrogen per 1,000 ft^2 using a material containing slowly available forms of nitrogen may be applied; 30 days after planting, apply up to 0.5 pounds of nitrogen per 1,000 ft^2 every week for the next 4 weeks.

Naturally Occurring or Modified Sand Based Soils

- Plant Date - August -September (preferred)
- Apply P_2O_5 and K_2O as needed based on soil test recommendations, incorporate into the top 2 inches if possible.
- At Planting - up to 0.9 pounds of nitrogen per 1,000 ft^2 using a material containing slowly available forms of nitrogen may be applied.
- Apply up to 0.25 pounds of nitrogen per 1,000 ft^2 per week after germination is complete, for the next 8 weeks. If using a material that contains slowly available forms of nitrogen, up to 0.5 pounds of nitrogen per 1,000 ft^2 every two weeks may be applied after germination is complete for the next 8 weeks.

Sod Installations:

Site preparation should include a soil test, which can be done several months before the project begins in order to have time to get test results back. Phosphorus, potassium and lime applications should be based on soil test analysis to increase the likelihood of a successful installation. Shallow incorporation of material into the top 2 inches of the soil is preferred prior to sod installation, especially if lime is required.

No more than 0.7 pounds of nitrogen per 1,000 ft^2 of WSN may be applied before sod is installed. Alternatively, using a material with slowly available forms of nitrogen, 0.9 pounds of nitrogen per 1,000 ft^2 for cool season grasses or 1.0 pounds of nitrogen per 1,000 ft^2 for warm season grasses may be applied before sod is installed.

After installation apply adequate amounts of water to maintain sufficient soil moisture (i.e. to prevent visible wilt symptoms). Excessive water will limit initial root development. After roots begin to establish (as verified by lightly tugging on the sod pieces), shift irrigation strategy to a deep and infrequent program in order to encourage deep root growth. Apply approximately 1 inch of water per week (either by rainfall or irrigation), making sure that the water is being accepted by the soil profile without running off. This will insure thorough wetting of the soil profile.

After sod has completed rooting and is well established, initiate the normal nitrogen management program as described for the appropriate use shall be recommended.

Phosphorus and Potassium Recommendations for Establishment/Grow-In/Installation

Soil Test Level	Nutrient Needs (pounds per 1,000 ft^2) *	
	P_2O_5	K_2O
L	3-4	2-3
M	2-3	1-2
H	2-1	0.5-1
VH	0	0

* For the lower soil test level within a rating, use the higher side of the range and for higher soil test level within a rating use the lower side of the recommendation range.

Other Turf Management Considerations for Golf Courses, Athletic fields, and Home Lawns

Lime Recommendations

Lime should be recommended based on a soil test to maintain soil pH within an agronomic range for turfgrass.

For new seedings where lime is recommended, incorporate the lime into the topsoil for best results.

Returning Grass Clippings

Recycling of clippings on turf should be encouraged as an effective means of recycling nitrogen, phosphorus, and potassium. Proper mowing practices that ensure no more than 1/3 of the leaf blade is removed in any cutting event will enhance turf appearance and performance when clippings are returned. Return all leaf clippings from mowing events to the turf rather than discharging them onto sidewalks or streets. Rotary mulching mowers can further enhance clipping recycling by reducing the size of clippings being returned to the turfgrass canopy.

Management of Collected Clippings

If clippings are collected they should be disposed of properly. They may be composted or spread uniformly as a thin layer over other turf areas or areas where the nutrient content of the clippings can be recycled through actively growing plants. They should not be blown onto impervious surfaces or surface waters, dumped down stormwater drains, or piled outside where rainwater will leach out the nutrients creating the potential for nutrient loss to the environment.

Use of Iron

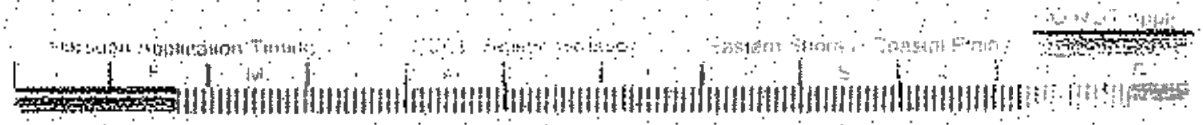
Iron applications (particularly foliar applications) may periodically be used for enhanced greening as an alternative to nitrogen. These applications are most beneficial if applied in late spring through summer for cool season grasses and in late summer/fall applications for warm-season grasses.

Impervious Surfaces

Do not apply fertilizers containing nitrogen or phosphorus to impervious surfaces (sidewalks, streets, etc.). Remove any granular materials that land on impervious surfaces by sweeping and collecting, and either put the collected material back in the bag, or spread it onto the turf and /or using a leaf blower etc. to return the fertilizer back to the turfgrass canopy.

Season of Nitrogen Application

And Caution



Imperious Surfaces

Do not apply fertilizer containing Nitrogen or Phosphorus to impervious surfaces (sidewalks, streets etc.). DO NOT use urea as an ice melting substance in cold weather. Remove any granular materials that land on impervious surfaces by sweeping and/or using a leaf blower etc. to return the fertilizer back to turfgrass canopy.

Lime Recommendations

Lime should be recommended based on a soil test to maintain soil pH within an agronomic range for turfgrass. For new seeding where lime is recommended, incorporate the lime into the topsoil for best results..

Returning Grass Clippings

Recycling of clippings on turf should be encouraged as an effective means of recycling Nitrogen, Phosphorus, and Potassium. Proper mowing practices that insure no more than 1/3 of the leaf blade is removed in any cutting event will enhance turf appearance and preforming when clippings are returned. Return all grass clippings from mowing events to the turf rather than discharging them onto sidewalks or streets. Rotary mulching movers can further enhance clipping recycling by reducing the size of clippings being returned to the turfgrass canopy.

Management of Collected Clippings

If clippings are collected they should be disposed of properly. They may be composted or spread uniformly as a thin layer over other turf areas or areas where the nutrient content of the clippings can be recycles through actively growing plants. They should not be blown onto impervious surfaces or surface waters, dumped down stormwater drains, or piled outsice where rainwater will leach out the nutrient creating the potential for nutrient loss to the environment.

Use of Iron

Iron applications (particularly foliar applications) many periodically be used for enhanced greening as an alternative to Nitrogen. These applications are most beneficial if applied in late spring through summer for cool season grasses and in late summer/fall applications for warm-season grasses.

Nutrient Applications for Turfgrass

- Nutrient Management is a means for producing quality turfgrass while maintaining a high level of environmental stewardship. A nutrient management plan does not encourage greater use of fertilizers, but addresses the way in which current practices may be adapted to promote a higher level of water quality and better turfgrass.

- Do not apply more than 1 lb of water soluble Nitrogen/1000ft^2 within a 30 day period and 30 days before 1st frost.

- Higher application rates are acceptable if slowly available Nitrogen fertilizers are used, as long as the soluble fraction of the Nitrogen does not exceed 1 lb/1000^2 within a 30 day period.

- Lower rates of water soluble Nitrogen should be used on very permeable sandy soils, shallow soils over fractured bedrock, or areas near water wells.

- No more than 3.5 lb of soluble Nitrogen/1000^2 may be applied to cool season turf in any one year. No more than 4 lb of soluble Nitrogen may be applied to warm season turf in any one year.

- Lower rates of Nitrogen are desirable on mature stands of turf that require less Nitrogen for long-term quality. Lower application rates are more suitable for fine leaf fescues (hard fescue, chewing fescue, creeping red fescue, and sheep fescues) and non-overseeded zoysia grass.

- Lower rates of Nitrogen should be applied on less intensively managed turf.

- Do not high Phosphorus ratio fertilizers such as 10-10-10 or 5-10-10 unless soil tests indicate Phosphorus availability below the M+ level.

- When soil disturbance of at least 2,500 square feet occurs in a Chesapeake Bay Preservation Area as designated by the Chesapeake Bay Preservation Act, or for soil disturbance of at least 10,000 square feet outside of Chesapeake Bay Preservation Areas, Erosion and Sediment Control measures will supercede Nutrient Management Plan provisions for that site for the duration of the disturbance. The Nutrient Management Plan will once again be in force once vegetation has been re-established.

Starter Fertilizer

Fertilizer Analysis	#Nitrogen/ 1000 sq ft	#Fertilizer /1000 sq ft	P_2O_5 1000 sq ft	P_2O_5 1000 sq ft
15-30-15	0.5	3.3	1.0	6.6
	1.0	6.7	2.0	13
	1.5	10.0	3.0	19.8
9-21-9	0.5	5	1.0	10
	1.0	10.2	2.0	20
	1.5	21.2	3.0	30
18-24-12	0.5	2.8	0.7	3.9
	1.0	5.6	1.3	7.8
	1.5	8.3	2.0	11.7

Formula for Calculating How Many Pounds of Fertilizer to Apply

$$\frac{\text{Desired \# Nitrogen per 1000 sq ft}}{\text{\% Nitrogen in Fertilizer}} \times 100 = \text{\# Fertilizer to apply per 1000 sq ft}$$

Calibration of Spreaders

Pan Method:

Push the spreader over a pan(s) and collect and weigh the material that is spread. By knowing the area of the pan and weight of the material, the application rate can be determined by:

$$\text{Grams Material per 1,000 sq. ft} = 1{,}000 \times \frac{\text{Grams Material Collected}}{\text{ft. Pan} \times \text{\# of Pans} \times \text{\# of Passes}}$$

Sweep and Weigh Method for Drop Spreader

Push a drop spreader over a clean, smooth surface of known distance and sweep and weigh the material. The application rate can be determined by:

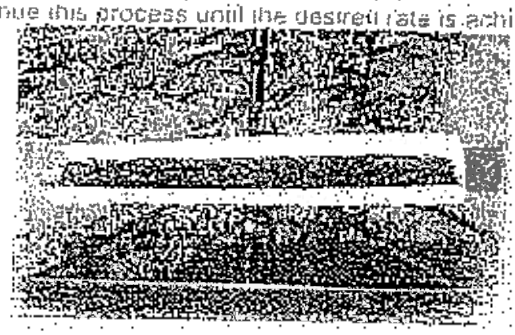
$$\text{Grams Material per 1,000 sq. ft} = 1{,}000 \times \frac{\text{Grams Material Collected}}{\text{Spreader Width} \times \text{Distance Traveled}}$$

Catch Pan Method:

Attach a catch pan to the bottom of the spreader. Establish and mark two points of a known distance. Push the spreader over the known distance, opening the hopper at the starting point, and closing at the finish point, while collecting the material in the catch pan. The application rate is determined by using the following formula:

$$\text{Grams Material per 1,000 sq. ft} = 1{,}000 \times \frac{\text{Grams Material Collected}}{\text{Spreader Width} \times \text{Distance Traveled}}$$

Whichever method is used, make enough passes at travel enough distance so that the material collected is enough to be weighed accurately. If the calculated rate is too high, reduce the setting adjustment. If it is too low, increase the setting adjustment. Continue this process until the desired rate is achieved.



Fertilization for Landscape Areas

As for turf management, the decision to apply fertilizer to landscape plantings should be based on the results of soil testing. Most established plantings of trees and shrubs will prosper from the application of a ½" to 2" layer of compost per year. Quite often, soils in public areas are compacted. The resulting oxygen depletion and water-logging in the plant root zone are responsible for lack of vigor and poor condition. Compost, leaf mold, and composted manures or biosolids are three products that will greatly increase the porosity of clay soils and improve water and nutrient retention in sandy soils.

Installation Plantings: A liquid or soluble starter fertilizer formulated for ornamental plants is generally accepted as a beneficial treatment for annuals, perennials, shrubs, and trees at the time of installation. Follow label directions.

New Plantings: For the first few years after planting, woody ornamentals will achieve optimum growth when 1 lb. to 3 lb. of nitrogen per 1000 sq. ft. is applied per year. When applying a total of more than 1 lb. water soluble nitrogen per 1000 sq. ft., split applications of 1 lb. nitrogen per 1000 sq. ft. or less through June are recommended. Slow release fertilizers may be applied all at once. According to research, trees and shrubs respond best to fertilizers with ratios and analyses listed below.

Fertilizer Ratio	Fertilizer Analysis
4-1-2	24-6-12
3-1-2	15-5-12
4-1-1	20-5-5
3-1-1	12-4-5

Established Plantings: Mature plantings of five years or more will generally not require fertilization to remain healthy. Topdressing with organic materials is all that is needed.

Fertilizers should be applied after bud break in the spring. When deciding how much nitrogen to apply to woody ornamentals, err on the side of caution. Too much nitrogen results in weak growth that is susceptible to attack by pests and pathogens. Surface application of granular or pelleted fertilizer is as effective as other application methods. The feeder roots of trees and shrubs are primarily located in the top 6" to 8" of the soil. Landscape plantings will perform best when they are maintained in mulched beds separated from lawn areas. For trees surrounded by turf, generally no supplemental fertilization is required.

Micronutrients are seldom needed for plantings in Virginia with the exception of iron. For azaleas, rhododendrons, and other acid soil loving plants, an application of liquid chelated iron in the spring will generally correct chlorosis. This can be followed by application of shredded leaves as mulch in the fall to enhance and maintain acidity, which in turn makes iron more available for plant uptake. Sweet-gums, oaks, hollies, and dogwoods are among the landscape plants that prefer acidic soil.

Elton M. Smith, Professor Emeritus, The Ohio State University

Soil Test Summary

Key
P = Phosphorus
K = Potassium
H = High
M = Medium
L = Low

Site: *Norfolk State University*

Nutrient Management Plan Years: *March 31, 2017 - March 31, 2019*

Management Area	Soil Test Date	pH	Melich III P ppm	H/M/L	VT K ppm	H/M/L
1 - HBW Hall Admin Bldg	10/24/16	7.2	78	H	103	H-
3 - Facilities Maintenance	10/24/16	7.6	68	M	116	H
7 - Lyman Beecher Library	10/24/16	6.0	34	H	91	H-
36 - Nursing Bld, White Memorial Garden	10/24/16	6.6	47	M+	70	M
9 - Scott/Dozier Dining Hall	10/24/16	6	72	H	70	M
13 - Picnic Area	10/24/16	5.9	34	M	71	M
17 - President's House	10/24/16	6.2	78	H	94	H-
19 - West C. Dining Hall	10/24/16	6.9	73	H	91	H-
24 - Spartan Station	10/24/16	6.1	60	H-	76	M+
25 - Spartan Suites	10/24/16	7	62	H-	69	M
26 - Brambleton Center	10/24/16	6.3	118	H	71	M
27 - Wilder Arts Center	10/24/16	6.1	80	H	74	M
28 - Smith North Hall/South	10/24/16	6.3	25	M-	88	M+
29 - James A. Bowser Bldg	10/24/16	6.1	42	M+	60	M
30 - GWC Brown Hall	10/24/16	5.7	103	H+	60	M
33 - Ticket Office	10/24/16	6.4	92	H	62	M
34 - Joseph G Echols Hall	10/24/16	6	78	H	69	M
35 - Marie V McDemmond Ctr	10/24/16	7.4	80	H	88	M+
37 - Tennis Complex	10/24/16	6.5	37	M	64	M
38 - Softball Field	10/24/16	6.4	65	H-	69	M
39 - Baseball Field	10/24/16	5.9	86	H	66	M
39P - Baseball Field Parking	10/24/16	5.9	68	H	91	H-
42 - Sports Medicine Center	10/24/16	6.6	76	H	90	H-
43 - Football Stadium	10/24/16	5.9	82	H	41	M-
44 - Football Practice Field	10/24/16	6.5	79	H	41	M-

Waters Agricultural Laboratories, Inc.
P.O. Box 382 257 Newton Hwy
Camilla, GA 31730
(229) 336-7216 FAX (229) 336-7967

TIDEWATER AGRONOMICS, INC.
P O BOX 310
CAMDEN, NC 27921

Soil Analysis Report
NCDA Index

Grower: TIDEWATER AGRONOMICS
Field ID: NSI

Account: 8826
Received: 10/24/2016
Processed: 10/26/2016

Lab Number	Sample ID	P-I	K-I	Mg%	Ca%	Water pH	Ac	S-I	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	Soil Class
813761QC	1	65	85	6.4	78.2	7.2	1.4	52	2.6	973	78	481	1546	20.9	2.554	MIN
813762QC	2	28	96	8.6	55.9	6	2.4	38	1.6	644	65	436	446	14.9	2.387	MIN
813763QC	3	57	75	6.4	61.7	7.6	1	63	2.6	1236	84	533	1118	20.0	2.124	MIN
813764QC	36	39	58	7.7	61.3	6.6	1.6	80	1.7	174	60	481	178	12.5	1.755	MIN
813765QC	9	60	58	7.4	55.1	6	2.4	51	1.6	333	100	416	268	13.6	2.278	MIN
813766QC	13	28	59	8.0	52.2	5.9	2.4	38	1.5	279	128	351	260	12.8	2.072	MIN
813767QC	17	65	78	8.6	56.4	6.2	2.2	35	2.0	905	56	523	625	13.7	2.467	MIN
813768QC	19	61	75	6.2	69.3	6.9	1.4	52	2.0	1610	65	431	654	14.1	1.755	MIN
813769QC	24	50	63	9.5	55.2	6.1	2.2	46	1.6	559	109	484	309	13.0	1.881	MIN
813770QC	25	52	57	7.4	68.5	7	1.4	53	1.7	836	153	450	285	12.8	1.745	MIN
813771QC	26	98	59	8.0	65.6	6.3	1.8	38	1.8	2298	84	368	490	14.7	2.242	MIN
813772QC	27	67	61	7.5	55.4	6.1	2.0	42	1.9	1066	71	415	475	15.9	2.944	MIN
813773QC	28	21	73	9.2	61.7	6.3	2	30	2.2	1140	71	444	527	15.0	2.473	MIN
813774QC	29	35	50	9.5	55.9	6.1	2	32	1.7	661	87	436	414	12.3	2.165	MIN
813775QC	30	86	50	7.6	53.8	5.7	2.4	43	1.8	516	112	525	342	13.1	2.510	MIN
813776QC	33	77	51	7.3	60.6	6.4	1.8	41	1.7	502	84	421	261	12.0	2.148	MIN
813777QC	34	65	67	7.9	51.2	6	2.2	38	1.6	871	78	432	279	11.4	2.096	MIN
813778QC	35	67	73	7.2	75.7	7.4	1	37	2.1	1027	65	543	558	13.9	2.242	MIN
813779QC	37	31	53	7.4	63.0	6.5	1.0	40	1.7	958	50	427	587	13.1	2.049	MIN

L=Low M=Medium A=Adequate H=High VH=Very High

Waters Agricultural Laboratories Inc.

P.O. Box 382 257 Newton Hwy
Camilla, GA 31730
(229) 336-7216 FAX (229) 336-7967

TIDEWATER AGRONOMICS, INC.
P O BOX 310
CAMDEN, NC 27921

Soil Analysis Report
NCDA Index

Grower: TIDEWATER AGRONOMICS
Field ID: NSF

[illegible]: 8326
Received: 10/24/2016
[illegible]: 10/26/2016

Lab Number	Sample ID	[illegible]	[illegible]	Mg%	[illegible]	Buffer pH	[illegible]	[illegible]	[illegible]	[illegible]	Mn-I	[illegible]	[illegible]	[illegible]	[illegible]	Soil Class
813780QC	38	54	57	7.5	62.4	6.4	1.6	51	2.1	350	100	693	320	11.6	1.842	MIN
813781QC	39	72	55	8.1	53.0	5.9	2	55	1.8	270	109	641	225	11.0	1.97	MIN
813782QC	39P	57	75	7.0	51.2	5.9	2.6	42	1.4	471	68	391	283	13.3	2.504	MIN
813783QC	42	63	51	7.4	65.5	6.6	1.6	38	2.0	476	115	453	432	12.8	1.987	MIN
813784QC	43	68	34	7.6	47.9	5.9	1.4	45	1.5	234	67	665	146	6.7	1.634	MIN
813785QC	44	66	34	7.0	61.9	6.5	1.4	50	1.2	193	59	473	111	5.6	1.734	MIN

L=Low M=Medium A=Adequate H=High VH=Very High

TIDEWATER AGRONOMICS, INC.

Research Office: 313 Turnpike Road, Belvidere, NC 27919
Tel. 252-297-2010 Fax: 252-297-2010

Consulting Office: 135 Gumberry Road, Camden, NC 27921
Tel. 252-331-1008 Fax: 252-331-2001

Mailing Address: P.O. Box 310, Camden, NC 27921

Stan's cell: 252-333-0212 Matt's cell: 252-312-8495
Website: www.tidewaterag.com
VA CERTIFIED NUTRIENT MANAGEMENT PLANNER #102

ATTACHED ARE YOUR NUTRIENT APPLICATION RECORD SHEETS.
PLEASE FILL THEM OUT AS YOUR APPLICATIONS ARE MADE.

REPORTS WILL BE DUE ANNUALLY ON THE ANNIVERSARY DATE OF THIS PLAN.

SEND COPIES OF APPLICATION RECORDS TO:

Chantel Wilson
Urban nutrient Management Specialist
Virginia Department of Conservation and Recreation.
600 East Main Street, 24th floor
Richmond, VA 23219
Office: (804) 887-8917
Chantel.Wilson@dcr.virigina.gov

CITY OF NORFOLK

BUREAU OF ENVIRONMENTAL SERVICES

Erosion and Sediment Control Inspection Report

Project Name: NSU Brown Hall

Address: 700 Park Ave. CGP: Yes #: E765

Inspection Date: 10/13/16
Inspection Time: 2:36 pm

Stage of Construction: __Pre-Con __Clearing __Rough Grading
__Utility Work __ Demo x Bldg Const. __F. Grading __F. Stabilization

E & S Control Practices	Installed Effective	Installed Not Effective	Not Installed	Violation	Remove	N/A
Construction Entrance (CE)	✓					
Inlet Protection (IP)	✓	✗				
Outlet Protection (OP)						✗
Silt Fence (SF)	✓					
Sediment Trap/Basin (ST)						✗
Soil Stabilization (SS)						✗
Soil Stockpile Stabilization (SPS)	✓					
Tree Protection (TP)						✗
Dewatering Structure (DS)						✗
Concrete Washout (CW)	✓					

Trash/Debris on Site: No

Sediment Leaving Site: Yes — Minor Tracking - Continue sweeping daily

The inspection reveals that deficiencies are present in the above categories.
The following actions are required to correct the deficiencies:

✓ CE IP SF SPS CW installed

**Installed Correctly - Maintain until surrounding area is stabilized

IP - Clean IP within 24 hours

**shovel mud from IP and reinforce silt fence

SF - Repair SF (minor issues)

**shovel mud from around SF near the gate across from Student Center

**repair SF North of site where dewatering runoff is taking place

Targeted Re-Inspection Date / Compliance Time: 7 calendar days from the receipt of this notice.

Reported to: Carl Greene
Print Name

Signature

Phone Number — Date: 10/13/16

Inspector: JaonTray D. Coley
Print Name

Signature

620-0839 — Date: 10/13/16
Phone Number

CITY OF NORFOLK
BUREAU OF ENVIRONMENTAL SERVICES

Erosion and Sediment Control Inspection Report

Project Name: NSU Brown Hall

Address: 700 Park Ave CGP: Yes #: E765

Inspection Date: 10/20/16
Inspection Time: 10:40 am

Stage of Construction: __Pre-Con __Clearing __Rough Grading __Utility Work __ Demo x Bldg Const. __F. Grading __F. Stabilization

E & S Control Practices	Installed Effective	Installed Not Effective	Not Installed	Violation	Remove	N/A
Construction Entrance (CE)	✓					
Inlet Protection (IP)	✓					
Outlet Protection (OP)						x
Silt Fence (SF)	✓	x				
Sediment Trap/Basin (ST)						x
Soil Stabilization (SS)						x
Soil Stockpile Stabilization (SPS)						x
Tree Protection (TP)						x
Dewatering Structure (DS)						x
Concrete Washout (CW)	✓					

Trash/Debris on Site: No

Sediment Leaving Site: No

The inspection reveals that deficiencies are present in the above categories.
The following actions are required to correct the deficiencies:

✓SF,CE,CW,IP

**Installed Correctly - Maintain until surrounding area is stabilized

SF - Repair SF IMMEDIATELY, South &West & North of site

IP - Reinstall IP within 24 hours

Targeted Re-inspection Date / Compliance Time: 5 calendar days from the receipt of this notice.

Reported to: Neftal Alberto Lopez
Print Name

Signature

757 472 0522 10-20-16
Phone Number Date

Inspector: Odell Glenn
Print Name

Signature

6644365 10/20/16
Phone Number Date

CITY OF NORFOLK
BUREAU OF ENVIRONMENTAL SERVICES

Erosion and Sediment Control Inspection Report

Project Name: NSU Brown Hall

Address: 700 Park Ave CGP: Yes #: E765

Inspection Date: 10/25/16
Inspection Time: 3:50 pm

Stage of Construction: __Pre-Con __Clearing __Rough Grading __Utility Work __ Demo x Bldg Const. __F. Grading __F. Stabilization

E & S Control Practices	Installed Effective	Installed Not Effective	Not Installed	Violation	Remove	N/A
Construction Entrance (CE)	✓					
Inlet Protection (IP)	✓					
Outlet Protection (OP)						✗
Silt Fence (SF)	✓	✗				
Sediment Trap/Basin (ST)						✗
Soil Stabilization (SS)						✗
Soil Stockpile Stabilization (SPS)						✗
Tree Protection (TP)						✗
Dewatering Structure (DS)						✗
Concrete Washout (CW)	✓	✗				

Trash/Debris on Site: No

Sediment Leaving Site: No — Continue sweeping daily

The inspection reveals that deficiencies are present in the above categories.
The following actions are required to correct the deficiencies:

✓SF,CE,CW,IP

**Installed Correctly - Maintain until surrounding area is stabilized

IP - Reinstalled, SF - Some SF REPAIRED.

SF - Repair SF IMMEDIATELY, South &West & North of site.

CW - Clean CW IMMEDIATELY

-Clean up washout near West CE

Targeted Re-inspection Date / Compliance Time: 3 calendar days from the receipt of this notice.

Reported to: Nikki Lopez
Print Name
Signature
7526720522 10-25-16
Phone Number Date

Inspector: Odell Glenn
Print Name
Signature
6644365 10/25/16
Phone Number Date

CITY OF NORFOLK
BUREAU OF ENVIRONMENTAL SERVICES

Erosion and Sediment Control Inspection Report

Project Name: NSU Brown Hall

Address: 700 Park Ave **CGP:** Yes **#:** E765

Inspection Date: 10/28/16 **Stage of Construction:** __Pre-Con __Clearing __Rough Grading
Inspection Time: 3:00 pm __Utility Work __ Demo x Bldg Const. __F. Grading __F. Stabilization

E & S Control Practices	Installed Effective	Installed Not Effective	Not Installed	Violation	Remove	N/A
Construction Entrance (CE)	✓					
Inlet Protection (IP)	✓					
Outlet Protection (OP)						x
Silt Fence (SF)	✓	x				
Sediment Trap/Basin (ST)						x
Soil Stabilization (SS)						x
Soil Stockpile Stabilization (SPS)						x
Tree Protection (TP)						x
Dewatering Structure (DS)						x
Concrete Washout (CW)	✓	x				

Trash/Debris on Site: No

Sediment Leaving Site: No Continue sweeping daily

The inspection reveals that deficiencies are present in the above categories.
The following actions are required to correct the deficiencies:

✓SF,CE,CW,IP

**Installed Correctly - Maintain until surrounding area is stabilized

SF - Some SF REPAIRED, some damaged

SF - Repair SF IMMEDIATELY, South &West & North & East of site

CW - Replace CW IMMEDIATELY

CW - Clean CW IMMEDIATELY

-Clean up washout North of Bldg, near west CE

Targeted Re-inspection Date / Compliance Time: 5 **calendar days from the receipt of this notice.**

Reported to: Neftali De Leon Lopez
Print Name

[signature]
Signature

757 672 0522 10-28-16
Phone Number Date

Inspector: Odell Glenn
Print Name

[signature]
Signature

6644365 10/28/16
Phone Number Date

CITY OF NORFOLK
BUREAU OF ENVIRONMENTAL SERVICES

Erosion and Sediment Control Inspection Report

Project Name: NSU Brown Hall

Address: 700 Park Ave **CGP:** Yes **#:** E765

Inspection Date: 11/1/16
Inspection Time: 3:50 pm

Stage of Construction: __Pre-Con __Clearing __Rough Grading __Utility Work __Demo x Bldg Const. __F. Grading __F. Stabilization

E & S Control Practices	Installed Effective	Installed Not Effective	Not Installed	Violation	Remove	N/A
Construction Entrance (CE)	✓					
Inlet Protection (IP)	✓					
Outlet Protection (OP)						x
Silt Fence (SF)	✓		x			
Sediment Trap/Basin (ST)						x
Soil Stabilization (SS)						x
Soil Stockpile Stabilization (SPS)			x			
Tree Protection (TP)						x
Dewatering Structure (DS)						x
Concrete Washout (CW)	✓					

Trash/Debris on Site: No

Sediment Leaving Site: No — Continue sweeping daily

The inspection reveals that deficiencies are present in the above categories.
The following actions are required to correct the deficiencies:

*Failure to comply will result in a violation

SPS - Install SPS within 24 hours

SF - Repair SF IMMEDIATELY, East of site

✓CW REINSTALLED, SF REPAIRED

Targeted Re-inspection Date / Compliance Time: 3 **calendar days from the receipt of this notice.**

Reported to: _____
Print Name

_____
Signature

_____
Phone Number Date

Inspector: Odell Glenn
Print Name


Signature

6644365 11/1/16
Phone Number Date

CITY OF NORFOLK
BUREAU OF ENVIRONMENTAL SERVICES

Erosion and Sediment Control Inspection Report

Project Name: NSU Brown Hall

Address: 700 Park Ave **CGP:** Yes **#:** E765

Inspection Date: 11/7/16
Inspection Time: 3:30 pm

Stage of Construction: __Pre-Con __Clearing __Rough Grading __Utility Work __Demo X Bldg Const. __F. Grading __F. Stabilization

E & S Control Practices	Installed Effective	Installed Not Effective	Not Installed	Violation	Remove	N/A
Construction Entrance (CE)	✓					
Inlet Protection (IP)	✓					
Outlet Protection (OP)						X
Silt Fence (SF)	✓		X			
Sediment Trap/Basin (ST)						X
Soil Stabilization (SS)						X
Soil Stockpile Stabilization (SPS)			X			
Tree Protection (TP)						X
Dewatering Structure (DS)						X
Concrete Washout (CW)	✓					

Trash/Debris on Site: No

Sediment Leaving Site: No — Continue sweeping daily

The inspection reveals that deficiencies are present in the above categories.
The following actions are required to correct the deficiencies:

1st Violation - Failure to comply, Failure to install SPS & SF

SPS - Install SPS within 24 hours

SF - Install SF IMMEDIATELY, East of site

*Failure to comply will result in an additional violation

Targeted Re-inspection Date / Compliance Time: CARL GREENE 3 **calendar days from the receipt of this notice.**

Reported to: _____ (Print Name)

757 773 5667 11/7/16
Signature

Phone Number **Date**

Inspector: Odell Glenn (Print Name)

Signature

6644365 11/7/16
Phone Number **Date**

CITY OF NORFOLK
BUREAU OF ENVIRONMENTAL SERVICES

Erosion and Sediment Control Inspection Report

Project Name: NSU Brown Hall

Address: 700 Park Ave **CGP:** Yes **#:** E765

Inspection Date: 11/15/16
Inspection Time: 3:30 pm

Stage of Construction: __Pre-Con __Clearing __Rough Grading
x Utility Work __ Demo x Bldg Const. __F. Grading __F. Stabilization

E & S Control Practices	Installed Effective	Installed Not Effective	Not Installed	Violation	Remove	N/A
Construction Entrance (CE)	✓					
Inlet Protection (IP)	✓					
Outlet Protection (OP)						x
Silt Fence (SF)	✓		x			
Sediment Trap/Basin (ST)						x
Soil Stabilization (SS)						x
Soil Stockpile Stabilization (SPS)			x			
Tree Protection (TP)						x
Dewatering Structure (DS)						x
Concrete Washout (CW)	✓		x			

Trash/Debris on Site: No

Sediment Leaving Site: No Continue sweeping daily

The inspection reveals that deficiencies are present in the above categories.
The following actions are required to correct the deficiencies:

✓ SF INSTALLED ✓CE,IP,SF,CW: **Installed Correctly - Maintain until surrounding area is stabilized

SPS - Installed (Tarp)

SF - Install SF IMMEDIATELY, North & South of site

CW - Cleanup concrete IMMEDIATELY

-Use CW for pump truck

*Failure to comply will result in a violation

Targeted Re-inspection Date / Compliance Time: 1 **calendar days from the receipt of this notice.**

Reported to: CARL GREENE
Print Name

Signature

757-773-5667 11/15/16
Phone Number Date

Inspector: Odell Glenn
Print Name

Signature

6644365 11/15/16
Phone Number Date

CITY OF NORFOLK
BUREAU OF ENVIRONMENTAL SERVICES

Erosion and Sediment Control Inspection Report

Project Name: NSU Brown Hall

Address: 700 Park Ave CGP: Yes #: E765

Inspection Date: 11/16/16
Inspection Time: 3:30 pm

Stage of Construction:
__Pre-Con __Clearing __Rough Grading
x Utility Work __ Demo x Bldg Const. __F. Grading __F. Stabilization

E & S Control Practices	Installed Effective	Installed Not Effective	Not Installed	Violation	Remove	N/A
Construction Entrance (CE)	✓					
Inlet Protection (IP)	✓					
Outlet Protection (OP)						x
Silt Fence (SF)	✓					
Sediment Trap/Basin (ST)						x
Soil Stabilization (SS)						x
Soil Stockpile Stabilization (SPS)						
Tree Protection (TP)						x
Dewatering Structure (DS)						x
Concrete Washout (CW)	✓					

Trash/Debris on Site: No

Sediment Leaving Site: No Continue sweeping daily

The inspection reveals that deficiencies are present in the above categories.
The following actions are required to correct the deficiencies:

✓CE,IP,SF,CW: **Installed Correctly - Maintain until surrounding area is stabilized

SF - Maintain SF

CW - Cleaned concrete

Targeted Re-inspection Date / Compliance Time: 14 calendar days from the receipt of this notice.

Reported to: Naftali De Leon López
Print Name

Signature

757 673 0502
Phone Number

11-16-16
Date

Inspector: Odell Glenn
Print Name

Signature

6644365
Phone Number

11/16/16
Date

CITY OF NORFOLK

BUREAU OF ENVIRONMENTAL SERVICES

Erosion and Sediment Control Inspection Report

Project Name: NSU Brown Hall

Address: 700 Park Ave **CGP:** Yes **#:**________

Inspection Date: 11/28/16
Inspection Time: 2:10 pm

Stage of Construction: __Pre-Con __Clearing __Rough Grading
x Utility Work __ Demo x Bldg Const. __F. Grading __F. Stabilization

E & S Control Practices	Installed Effective	Installed Not Effective	Not Installed	Violation	Remove	N/A
Construction Entrance (CE)		✗				
Inlet Protection (IP)	✓					
Outlet Protection (OP)						✗
Silt Fence (SF)	✓					
Sediment Trap/Basin (ST)						✗
Soil Stabilization (SS)						✗
Soil Stockpile Stabilization (SPS)						✗
Tree Protection (TP)						✗
Dewatering Structure (DS)						✗
Concrete Washout (CW)	✓					

Trash/Debris on Site: No

Sediment Leaving Site: No

The inspection reveals that deficiencies are present in the above categories.
The following actions are required to correct the deficiencies:

✓IP,SF,CW

**Installed Correctly - Maintain until surrounding area is stabilized

CE - Replace CE within 48 hours

Reinstalling CW

Install plug in fuel tank containment box

SF - Repair SF (minor issues)

- South of site

Targeted Re-inspection Date / Compliance Time: 14 **calendar days from the receipt of this notice.**

Reported to: [illegible]
Print Name

[illegible]
Signature

757 672 0522 11-28-16
Phone Number Date

Inspector: Odell Glenn
Print Name

[illegible]
Signature

6644365 11/28/16
Phone Number Date

CITY OF NORFOLK

BUREAU OF ENVIRONMENTAL SERVICES

Erosion and Sediment Control Inspection Report

Project Name: NSU Brown Hall

Address: 700 Park Ave **CGP:** Yes **#:** N/A

Inspection Date: 12/8/16
Inspection Time: 3:50 pm

Stage of Construction: __Pre-Con __Clearing __Rough Grading __Utility Work __ Demo x Bldg Const. __F. Grading __F. Stabilization

E & S Control Practices	Installed Effective	Installed Not Effective	Not Installed	Violation	Remove	N/A
Construction Entrance (CE)	✓					
Inlet Protection (IP)	✓	✗				
Outlet Protection (OP)						✗
Silt Fence (SF)	✓					
Sediment Trap/Basin (ST)						✗
Soil Stabilization (SS)						✗
Soil Stockpile Stabilization (SPS)						✗
Tree Protection (TP)						✗
Dewatering Structure (DS)						✗
Concrete Washout (CW)	✓					

Trash/Debris on Site: No

Sediment Leaving Site: Yes Continue sweeping daily

The inspection reveals that deficiencies are present in the above categories. The following actions are required to correct the deficiencies:

✓CE,IP,SF,CW

**Installed Correctly - Maintain until surrounding area is stabilized

IP - Clean IPs within 24 hours

SF - Repair SF within 24 hours

CW - Repair CW IMMEDIATELY

Plug fuel tank containment box

*CE closed for utility work

Targeted Re-Inspection Date / Compliance Time: 5 **calendar days from the receipt of this notice.**

Reported to: Neftali De León López
Print Name

[illegible]
Signature

7576420522 12-8-16
Phone Number Date

Inspector: Odell Glenn
Print Name

[illegible]
Signature

6644365 12/8/16
Phone Number Date

CITY OF NORFOLK
BUREAU OF ENVIRONMENTAL SERVICES

Erosion and Sediment Control Inspection Report

Project Name: NSU - Brown Hall

Address: 700 Park Ave CGP: Yes #: N/A

Inspection Date: 12/19/16
Inspection Time: 2:10 pm

Stage of Construction: __Pre-Con __Clearing __Rough Grading __Utility Work __ Demo x Bldg Const. __F. Grading __F. Stabilization

E & S Control Practices	Installed Effective	Installed Not Effective	Not Installed	Violation	Remove	N/A
Construction Entrance (CE)	✓	x				
Inlet Protection (IP)	✓					
Outlet Protection (OP)						x
Silt Fence (SF)	✓	x				
Sediment Trap/Basin (ST)						x
Soil Stabilization (SS)						x
Soil Stockpile Stabilization (SPS)						x
Tree Protection (TP)						x
Dewatering Structure (DS)						x
Concrete Washout (CW)	✓	x				

Trash/Debris on Site: No

Sediment Leaving Site: Yes Shovel / Sweep pavement adjacent to site

The inspection reveals that deficiencies are present in the above categories.
The following actions are required to correct the deficiencies:

✓CE,IP,SF,CW

**Installed Correctly - Maintain until surrounding area is stabilized

CW - Re-Install CW IMMEDIATELY

SF - Repair SF within 24 hours, West & South site

- Control area west of site

CE - Rework CE within 48 hours

Targeted Re-inspection Date / Compliance Time: 3 calendar days from the receipt of this notice.

Reported to: CARI GREENE
Print Name
Signature
757-773 5667
Phone Number
12/19/16
Date

Inspector: Odell Glenn
Print Name
Signature
6644365
Phone Number
12/19/16
Date

CITY OF NORFOLK
BUREAU OF ENVIRONMENTAL SERVICES

Erosion and Sediment Control Inspection Report

Project Name: NSU - Brown Hall

Address: 700 Park Ave CGP: Yes #: N/A

Inspection Date: 12/22/16
Inspection Time: 12:30 pm

Stage of Construction: __Pre-Con __Clearing __Rough Grading __Utility Work x Demo x Bldg Const. __F. Grading __F. Stabilization

E & S Control Practices	Installed Effective	Installed Not Effective	Not Installed	Violation	Remove	N/A
Construction Entrance (CE)	✓	x				
Inlet Protection (IP)	✓					
Outlet Protection (OP)						x
Silt Fence (SF)	✓	x				
Sediment Trap/Basin (ST)						x
Soil Stabilization (SS)						x
Soil Stockpile Stabilization (SPS)						x
Tree Protection (TP)						x
Dewatering Structure (DS)						x
Concrete Washout (CW)	✓	x				

Trash/Debris on Site: No

Sediment Leaving Site: Yes Shovel / Sweep pavement adjacent to site

The inspection reveals that deficiencies are present in the above categories.
The following actions are required to correct the deficiencies:

✓CE,IP,SF,CW

**Installed Correctly - Maintain until surrounding area is stabilized

CW - Re-Installed

Straw Bales installed west of site

CE - Replace CE within 48 hours

SF - Repair SF within 24 hours, West & South site

Targeted Re-inspection Date / Compliance Time: 7 calendar days from the receipt of this notice.

Reported to: Neftali De Leon Lopez
Print Name

Neftali Lopez
Signature

7576720522 12-27-16
Phone Number Date

Inspector: Odell Glenn
Print Name

Signature

6644365 12/22/16
Phone Number Date

R.I. - 1" 1/3/17

CITY OF NORFOLK

BUREAU OF ENVIRONMENTAL SERVICES

Erosion and Sediment Control Inspection Report

Project Name: NSU Brown Hall

Address: 700 Park Ave. CGP: Yes #: N/A

Inspection Date: 1/5/17
Inspection Time: 12:19 pm

Stage of Construction: __Pre-Con __Clearing x Rough Grading
x Utility Work __ Demo x Bldg Const. __F. Grading __F. Stabilization

E & S Control Practices	Installed Effective	Installed Not Effective	Not Installed	Violation	Remove	N/A
Construction Entrance (CE)	✓	✗				
Inlet Protection (IP)	✓	✗				
Outlet Protection (OP)						✗
Silt Fence (SF)	✓	✗				
Sediment Trap/Basin (ST)						✗
Soil Stabilization (SS)						✗
Soil Stockpile Stabilization (SPS)						✗
Tree Protection (TP)						✗
Dewatering Structure (DS)						✗
Concrete Washout (CW)	✓					

Trash/Debris on Site: No

Sediment Leaving Site: Yes — Tracking - Shovel / Sweep pavement Immediately

The inspection reveals that deficiencies are present in the above categories.
The following actions are required to correct the deficiencies:

✓ CE SF IP CW

**Installed Correctly - Maintain until surrounding area is stabilized

SF - Repair SF within 24 hours

**repair SF West, East, and South of site

**put straw bells back in place, also shovel and sweep sediment leaving site

**shovel sediment from around SF East, West, and South of site

IP - Replace IP IMMEDIATELY (replace gutter buddies W of site)

CE - Close CE IMMEDIATELY

Targeted Re-inspection Date / Compliance Time: 5 calendar days from the receipt of this notice.

Reported to: Neftali De Leon Lopez
Print Name

Signature

757-672-0522 1/5/17
Phone Number Date

Inspector: JaonTray D. Coley
Print Name

Signature

620-0839 1/5/17
Phone Number Date

CITY OF NORFOLK
BUREAU OF ENVIRONMENTAL SERVICES

Erosion and Sediment Control Inspection Report

Project Name: NSU - Brown Hall

Address: 700 Park Avenue **CGP:** Yes **#:** N/A

Inspection Date: 1/12/17
Inspection Time: 1158 am

Stage of Construction: __Pre-Con __Clearing __Rough Grading __Utility Work __ Demo x Bldg Const. __F. Grading __F. Stabilization

E & S Control Practices	Installed Effective	Installed Not Effective	Not Installed	Violation	Remove	N/A
Construction Entrance (CE)	✓					
Inlet Protection (IP)	✓					
Outlet Protection (OP)						
Silt Fence (SF)	✓	x				
Sediment Trap/Basin (ST)						
Soil Stabilization (SS)						
Soil Stockpile Stabilization (SPS)						
Tree Protection (TP)						
Dewatering Structure (DS)						
Concrete Washout (CW)	✓	x				

Trash/Debris on Site: No

Sediment Leaving Site: Yes Tracking - Shovel / Sweep pavement Immediately

The inspection reveals that deficiencies are present in the above categories.
The following actions are required to correct the deficiencies:

✓ CE IP SF CW

**Installed Correctly - Maintain until surrounding area is stabilized

SF - Repair SF within 24 hours

**repair SF West, East, and South of site

**put extra straw bells along fence where work is being done on the South of site.

**put straw bells back in place and shovel/sweep sediment along South of site

**put straw bells along the perimeter of the fence South and East of the site

*Shovel / Sweep IMMEDIATELY (ALL sediment that has left the site needs to be removed)

*Failure to comply will result in a violation

Targeted Re-inspection Date / Compliance Time: 5 **calendar days from the receipt of this notice.**

Reported to: Print Name

Signature

757-672-0522 1/12/17
Phone Number Date

Inspector: JaonTray D. Coley
Print Name

Signature

620-0839 1/12/17
Phone Number Date

CITY OF NORFOLK
BUREAU OF ENVIRONMENTAL SERVICES

Erosion and Sediment Control Inspection Report

Project Name: NSU Brown Hall

Address: 700 Park Ave. CGP: Yes #: N/A

Inspection Date: 1/19/17
Inspection Time: 1:10 pm

Stage of Construction: __Pre-Con __Clearing __Rough Grading
__Utility Work __ Demo X Bldg Const. __F. Grading __F. Stabilization

E & S Control Practices	Installed Effective	Installed Not Effective	Not Installed	Violation	Remove	N/A
Construction Entrance (CE)	✓					
Inlet Protection (IP)	✓	✗				
Outlet Protection (OP)	✓					
Silt Fence (SF)	✓		✗			
Sediment Trap/Basin (ST)						✗
Soil Stabilization (SS)						✗
Soil Stockpile Stabilization (SPS)						✗
Tree Protection (TP)						✗
Dewatering Structure (DS)						✗
Concrete Washout (CW)	✓					

Trash/Debris on Site: No

Sediment Leaving Site: Yes — Minor Tracking - Continue sweeping daily

The inspection reveals that deficiencies are present in the above categories.
The following actions are required to correct the deficiencies:

✓ CE IP SF OP CW

**Installed Correctly - Maintain until surrounding area is stabilized

IP - Replace IP within 24 hours

**replace IP East of site

SF - Install SF IMMEDIATELY

**instal SF East of site

Sweep/shovel sediment from in between silt fence East of site

SF - Repair SF within 24 hours

**repair SF South of site

Targeted Re-inspection Date / Compliance Time: 5 calendar days from the receipt of this notice.

Reported to: Neftali De Leon
Print Name

Signature

757-672-0522 — 1/19/17
Phone Number — Date

Inspector: JaonTray D. Coley
Print Name

Signature

620-0839 — 1/19/17
Phone Number — Date

CITY OF NORFOLK
BUREAU OF ENVIRONMENTAL SERVICES

Erosion and Sediment Control Inspection Report

Project Name: NSU Brown Hall

Address: 700 Park Ave. **CGP:** Yes **#:** N/A

Inspection Date: 1/23/17
Inspection Time: 3:32 pm

Stage of Construction: __Pre-Con __Clearing __Rough Grading __Utility Work __ Demo X Bldg Const. __F. Grading __F. Stabilization

E & S Control Practices	Installed Effective	Installed Not Effective	Not Installed	Violation	Remove	N/A
Construction Entrance (CE)	✓					
Inlet Protection (IP)	✓					
Outlet Protection (OP)	✓					
Silt Fence (SF)	✓		✗			
Sediment Trap/Basin (ST)						✗
Soil Stabilization (SS)			✗			
Soil Stockpile Stabilization (SPS)						✗
Tree Protection (TP)						✗
Dewatering Structure (DS)						✗
Concrete Washout (CW)	✓					

Trash/Debris on Site: No

Sediment Leaving Site: Yes — Minor Tracking - Continue sweeping daily

The inspection reveals that deficiencies are present in the above categories.
The following actions are required to correct the deficiencies:

✓ CE IP SF OP CW

**Installed Correctly - Maintain until surrounding area is stabilized

Inlet protection on the E of site was replaced

Place silt fence in front of drain on the E of site

Stabilize bare areas near new walkway on the E of site

Targeted Re-inspection Date / Compliance Time: 4 **calendar days from the receipt of this notice.**

Reported to: Carl Greene
Print Name

Signature

7735667 1/23/17
Phone Number Date

Inspector: JaonTray D. Coley
Print Name

Signature

620-0839 1/23/17
Phone Number Date

CITY OF NORFOLK
BUREAU OF ENVIRONMENTAL SERVICES

Erosion and Sediment Control Inspection Report

Project Name: NSU Brown Hall

Address: 700 Park Avenue **CGP:** No **#:**

Inspection Date: 1/27/17
Inspection Time: 1112 am

Stage of Construction: __Pre-Con __Clearing __Rough Grading __Utility Work __ Demo ✗ Bldg Const. __F. Grading __F. Stabilization

E & S Control Practices	Installed Effective	Installed Not Effective	Not Installed	Violation	Remove	N/A
Construction Entrance (CE)	✓					
Inlet Protection (IP)	✓					
Outlet Protection (OP)						✗
Silt Fence (SF)	✓					
Sediment Trap/Basin (ST)						✗
Soil Stabilization (SS)	✓					
Soil Stockpile Stabilization (SPS)						✗
Tree Protection (TP)						✗
Dewatering Structure (DS)						✗
Concrete Washout (CW)	✓					

Trash/Debris on Site: No

Sediment Leaving Site: Yes — Shovel / Sweep pavement adjacent to site

The inspection reveals that deficiencies are present in the above categories.
The following actions are required to correct the deficiencies:

✓ CE IP SF CW

**Installed Correctly - Maintain until surrounding area is stabilized

SF - Repair SF (minor issues)

**on the S side of site

✓ silt fence on the west of site has been repaired

✓ more straw bells have been added E of site to protect inlet from runoff area

✓ bare area E of site have been seeded and matted with straw

Targeted Re-inspection Date / Compliance Time: 14 **calendar days from the receipt of this notice.**

Reported to: Carl Greene
Print Name

Signature

7235677 1/27/17
Phone Number Date

Inspector: JaonTray D. Coley
Print Name

Signature

620-0839 1/27/17
Phone Number Date

CITY OF NORFOLK
BUREAU OF ENVIRONMENTAL SERVICES

Erosion and Sediment Control Inspection Report

Project Name: NSU Brown Hall

Address: 700 Park Avenue **CGP:** No **#:**

Inspection Date: 2/24/17
Inspection Time: 1134 am

Stage of Construction: __Pre-Con __Clearing __Rough Grading __Utility Work __ Demo x Bldg Const. __F. Grading __F. Stabilization

E & S Control Practices	Installed Effective	Installed Not Effective	Not Installed	Violation	Remove	N/A
Construction Entrance (CE)	✓					
Inlet Protection (IP)	✓					
Outlet Protection (OP)						x
Silt Fence (SF)	✓					
Sediment Trap/Basin (ST)						x
Soil Stabilization (SS)	✓					
Soil Stockpile Stabilization (SPS)						x
Tree Protection (TP)						x
Dewatering Structure (DS)						x
Concrete Washout (CW)						x
Straw Barriers SB	✓					

Trash/Debris on Site: No

Sediment Leaving Site: No Continue sweeping daily

The inspection reveals that deficiencies are present in the above categories. The following actions are required to correct the deficiencies:

✓ CE IP SF SB

**Installed Correctly - Maintain until surrounding area is stabilized

✓ silt fence repaired correctly

✓ stockpile removed

✓ street swept

Targeted Re-inspection Date / Compliance Time: 14 **calendar days from the receipt of this notice.**

Reported to: Carl Greene
Print Name

Signature

7735667 2/24/17
Phone Number Date

Inspector: JaonTray D. Coley
Print Name

Signature

620-0839 2/24/17
Phone Number Date

CITY OF NORFOLK
BUREAU OF ENVIRONMENTAL SERVICES

Erosion and Sediment Control Inspection Report

Project Name: NSU Brown Hall

Address: 700 Park Avenue **CGP:** No **#:**

Inspection Date: 3/10/17
Inspection Time: 2:30 pm

Stage of Construction: __Pre-Con __Clearing __Rough Grading __Utility Work __ Demo __Bldg Const. __F. Grading __F. Stabilization

E & S Control Practices	Installed Effective	Installed Not Effective	Not Installed	Violation	Remove	N/A
Construction Entrance (CE)	✓				X	
Inlet Protection (IP)	✓					
Outlet Protection (OP)						X
Silt Fence (SF)	✓	X				
Sediment Trap/Basin (ST)						X
Soil Stabilization (SS)	✓					
Soil Stockpile Stabilization (SPS)						X
Tree Protection (TP)						X
Dewatering Structure (DS)						X
Concrete Washout (CW)						X

Trash/Debris on Site: No

Sediment Leaving Site: No — Continue sweeping daily

The inspection reveals that deficiencies are present in the above categories.
The following actions are required to correct the deficiencies:

✓ CE IP SF

**Installed Correctly - Maintain until surrounding area is stabilized

SF - Repair SF within 24 hours

**Repair silt fence North, South, and West of site (may need new silt fence)

CE - Close CE IMMEDIATELY

**not a construction entrance. All vehicles must enter site through construction entrance NE of site only

Targeted Re-inspection Date / Compliance Time: 7 **calendar days from the receipt of this notice.**

Reported to: Carl Greene
Print Name
CARL GREENE
Signature
7735667 3/10/17
Phone Number Date

Inspector: JaonTray D. Coley
Print Name
Signature
620-0839 3/10/17
Phone Number Date

RI 1" 3/14

CITY OF NORFOLK
BUREAU OF ENVIRONMENTAL SERVICES

Erosion and Sediment Control Inspection Report

Project Name: NSU Brown Hall

Address: 700 Park Ave. CGP: No #:

Inspection Date: 3/14/17
Inspection Time: 1143 am

Stage of Construction: __Pre-Con __Clearing __Rough Grading __Utility Work __ Demo x Bldg Const. __F. Grading __F. Stabilization

E & S Control Practices	Installed Effective	Installed Not Effective	Not Installed	Violation	Remove	N/A
Construction Entrance (CE)	✓					
Inlet Protection (IP)	✓					
Outlet Protection (OP)						x
Silt Fence (SF)	✓	x				
Sediment Trap/Basin (ST)						x
Soil Stabilization (SS)						x
Soil Stockpile Stabilization (SPS)						x
Tree Protection (TP)						x
Dewatering Structure (DS)						x
Concrete Washout (CW)						x

Trash/Debris on Site: Yes — Cleanup trash on site

Sediment Leaving Site: No — Continue sweeping daily

The inspection reveals that deficiencies are present in the above categories.
The following actions are required to correct the deficiencies:

✓ CE IP SF

**Installed Correctly - Maintain until surrounding area is stabilized

SF - Repair SF IMMEDIATELY

**all areas where needed

Targeted Re-inspection Date / Compliance Time: 2 calendar days from the receipt of this notice.

Reported to: Carl Green
Print Name

Signature

773-5667
Phone Number Date

Inspector: JaonTray D. Coley
Print Name

Signature

620-0839 3/14/17
Phone Number Date

CITY OF NORFOLK
BUREAU OF ENVIRONMENTAL SERVICES

Erosion and Sediment Control Inspection Report

Project Name: NSU Brown Hall

Address: 700 Park Ave. **CGP:** No **#:**

Inspection Date: 3/16/17
Inspection Time: 10:43 am

Stage of Construction: __Pre-Con __Clearing __Rough Grading __Utility Work __ Demo x Bldg Const. __F. Grading __F. Stabilization

E & S Control Practices	Installed Effective	Installed Not Effective	Not Installed	Violation	Remove	N/A
Construction Entrance (CE)	✓					
Inlet Protection (IP)	✓					
Outlet Protection (OP)						✗
Silt Fence (SF)	✓	✗	✗			
Sediment Trap/Basin (ST)						✗
Soil Stabilization (SS)	✓					
Soil Stockpile Stabilization (SPS)			✗			
Tree Protection (TP)						✗
Dewatering Structure (DS)						✗
Concrete Washout (CW)						✗
Wattles/Hay Bales	✓		✗			

Trash/Debris on Site: No

Sediment Leaving Site: No

The inspection reveals that deficiencies are present in the above categories.
The following actions are required to correct the deficiencies:

✓ CE SF IP

**Installed Correctly - Maintain until surrounding area is stabilized

SF - Repair SF IMMEDIATELY (N, S, E, and W of site)

SPS - Install SPS within 24 hours

**stabilize stockpile by installing silt fence around it, and installing hay bales for concrete areas

**NE of site and far East

SF - Install SF Along walkway far E of site

Targeted Re-inspection Date / Compliance Time: 5 **calendar days from the receipt of this notice.**

Reported to: Carl Green
Print Name

Signature

773 566 7 3/16/17
Phone Number Date

Inspector: JaonTray D. Coley
Print Name

Signature

620-0839 3/16/17
Phone Number Date

CITY OF NORFOLK
BUREAU OF ENVIRONMENTAL SERVICES

Erosion and Sediment Control Inspection Report

Project Name: NSU Brown Hall

Address: 700 Park Ave. **CGP:** No **#:**

Inspection Date: 4/3/17
Inspection Time: 10:30 am

Stage of Construction: __Pre-Con __Clearing __Rough Grading
x Utility Work __ Demo x Bldg Const. __F. Grading __F. Stabilization

E & S Control Practices	Installed Effective	Installed Not Effective	Not Installed	Violation	Remove	N/A
Construction Entrance (CE)	✓					
Inlet Protection (IP)	✓	✗	✗			
Outlet Protection (OP)						✗
Silt Fence (SF)	✓					
Sediment Trap/Basin (ST)						✗
Soil Stabilization (SS)	✓		✗			
Soil Stockpile Stabilization (SPS)	✓					
Tree Protection (TP)						✗
Dewatering Structure (DS)						✗
Concrete Washout (CW)						✗

Trash/Debris on Site: No

Sediment Leaving Site: Yes — Shovel / Sweep pavement adjacent to site

The inspection reveals that deficiencies are present in the above categories.
The following actions are required to correct the deficiencies:

✓ CE IP SF SPS

**Installed Correctly - Maintain until surrounding area is stabilized

✓ silt fence and hay bales placed around soil stockpile

IP - Reinstall IP IMMEDIATELY

IP - Clean IP within 24 hours

SS - Stabilize bare soils East of site (flower bed)

*Shovel / Sweep IMMEDIATELY

Targeted Re-inspection Date / Compliance Time: 3 **calendar days from the receipt of this notice.**

Reported to: Carl Greene
Print Name
Signature
Phone Number
4/3/17
Date

Inspector: JaonTray D. Coley
Print Name
Signature
620-0839
Phone Number
4/3/17
Date

CITY OF NORFOLK
BUREAU OF ENVIRONMENTAL SERVICES

Erosion and Sediment Control Inspection Report

Project Name: NSU Brown Hall

Address: 700 Park Ave. **CGP:** No **#:**

Inspection Date: 4/6/17
Inspection Time: 2:00 pm

Stage of Construction: __Pre-Con __Clearing __Rough Grading __Utility Work __ Demo x Bldg Const. __F. Grading __F. Stabilization

E & S Control Practices	Installed Effective	Installed Not Effective	Not Installed	Violation	Remove	N/A
Construction Entrance (CE)	✓					
Inlet Protection (IP)	✓					
Outlet Protection (OP)						X
Silt Fence (SF)	✓					
Sediment Trap/Basin (ST)						X
Soil Stabilization (SS)	✓					
Soil Stockpile Stabilization (SPS)	✓					
Tree Protection (TP)						X
Dewatering Structure (DS)						X
Concrete Washout (CW)						X

Trash/Debris on Site: No

Sediment Leaving Site: Yes — Shovel / Sweep pavement adjacent to site

The inspection reveals that deficiencies are present in the above categories.
The following actions are required to correct the deficiencies:

✓ CE SF IP SPS

**Installed Correctly - Maintain until surrounding area is stabilized

✓ inlet protection reinstalled

Add more straw to flower bed

SF - Repair SF (minor issues)

Targeted Re-inspection Date / Compliance Time: 14 **calendar days from the receipt of this notice.**

Reported to: Carl Green
Print Name
Signature
Phone Number
4/6/17
Date

Inspector: JaonTray D. Coley
Print Name
Signature
620-0839
Phone Number
4/6/17
Date

CITY OF NORFOLK
BUREAU OF ENVIRONMENTAL SERVICES

Erosion and Sediment Control Inspection Report

Project Name: NSU Brown Hall

Address: 700 Park Avenue **CGP:** No **#:**

Inspection Date: 4/20/17
Inspection Time: 1:55 pm

Stage of Construction: __Pre-Con __Clearing __Rough Grading __Utility Work __ Demo x Bldg Const. __F. Grading __F. Stabilization

E & S Control Practices	Installed Effective	Installed Not Effective	Not Installed	Violation	Remove	N/A
Construction Entrance (CE)	✓	x				
Inlet Protection (IP)	✓					
Outlet Protection (OP)						x
Silt Fence (SF)	✓	x				
Sediment Trap/Basin (ST)						x
Soil Stabilization (SS)	✓					
Soil Stockpile Stabilization (SPS)	✓					
Tree Protection (TP)						x
Dewatering Structure (DS)						x
Concrete Washout (CW)						x

Trash/Debris on Site: No

Sediment Leaving Site: Yes — Continue sweeping daily

The inspection reveals that deficiencies are present in the above categories.
The following actions are required to correct the deficiencies:

✓ CE IP SF SPS

**Installed Correctly - Maintain until surrounding area is stabilized

SF - Install SF IMMEDIATELY

**install straw bales along bare areas where the new flower beds are being installed S of site

CE - Repair CE IMMEDIATELY

**add VDOT #1 stone to construction entrance SW of site

SF - Repair SF within 24 hours

**repair all silt fence

Targeted Re-inspection Date / Compliance Time: 7 **calendar days from the receipt of this notice.**

Reported to: Charlie Helms
Print Name
Signature
4/20/17
Phone Number Date

Inspector: JaonTray D. Coley
Print Name
Signature
620-0839 4/20/17
Phone Number Date

CITY OF NORFOLK
BUREAU OF ENVIRONMENTAL SERVICES

Erosion and Sediment Control Inspection Report

Project Name: NSU Brown Hall

Address: 700 Park Ave. **CGP:** No **#:**

Inspection Date: 4/27/17
Inspection Time: 1:30 pm

Stage of Construction: __Pre-Con __Clearing __Rough Grading __Utility Work __ Demo x Bldg Const. __F. Grading __F. Stabilization

E & S Control Practices	Installed Effective	Installed Not Effective	Not Installed	Violation	Remove	N/A
Construction Entrance (CE)	✓	✗				
Inlet Protection (IP)	✓					
Outlet Protection (OP)						✗
Silt Fence (SF)	✓	✗				
Sediment Trap/Basin (ST)						✗
Soil Stabilization (SS)	✓					
Soil Stockpile Stabilization (SPS)						✗
Tree Protection (TP)						✗
Dewatering Structure (DS)						✗
Concrete Washout (CW)						✗
Hay Bales	✓		✗			

Trash/Debris on Site: No

Sediment Leaving Site: Yes — Shovel / Sweep pavement adjacent to site

The inspection reveals that deficiencies are present in the above categories.
The following actions are required to correct the deficiencies:

✓ CE IP SF Hay Bales

**Installed Correctly - Maintain until surrounding area is stabilized

SF - Repair SF within 24 hours

**all silt fence in need of repairing

CE - Close CE IMMEDIATELY

**add VDOT #1 stone to areas SW and NW where cars have been parking, or close IMMEDIATELY

Straw Bales - place straw bales S of site

*Failure to comply will result in a violation

Targeted Re-Inspection Date / Compliance Time: 7 **calendar days from the receipt of this notice.**

Reported to: Nattali Lopez
Print Name
Signature
4/27/17
Phone Number Date
757-672-0522

Inspector: JaonTray D. Coley
Print Name
Signature
620-0839 4/27/17
Phone Number Date

RI - 1" 5/2/17

CITY OF NORFOLK
BUREAU OF ENVIRONMENTAL SERVICES

Erosion and Sediment Control Inspection Report

Project Name: NSU Brown Hall

Address: 700 Park Ave. CGP: No #: N/A

Inspection Date: 5/2/17
Inspection Time: 12:35 pm

Stage of Construction: __Pre-Con __Clearing __Rough Grading __Utility Work __ Demo X Bldg Const. __F. Grading __F. Stabilization

E & S Control Practices	Installed Effective	Installed Not Effective	Not Installed	Violation	Remove	N/A
Construction Entrance (CE)	✓					
Inlet Protection (IP)	✓	✗	✗			
Outlet Protection (OP)						✗
Silt Fence (SF)	✓	✗				
Sediment Trap/Basin (ST)						✗
Soil Stabilization (SS)						✗
Soil Stockpile Stabilization (SPS)	✓					
Tree Protection (TP)						✗
Dewatering Structure (DS)						✗
Concrete Washout (CW)						✗
Straw Bales	✓	✗	✗			

Trash/Debris on Site: No

Sediment Leaving Site: Yes — Shovel / Sweep pavement adjacent to site

The inspection reveals that deficiencies are present in the above categories.
The following actions are required to correct the deficiencies:

✓ CE IP SF SPS

**Installed Correctly - Maintain until surrounding area is stabilized

IP - Reinstall IP within 24 hours

IP - Replace IP within 24 hours

SF - Repair SF IMMEDIATELY

Straw Bales - install new straw bales S of site

**Cleanup dark liquid (may be from a work machine or vehicle OR color from hay bales) IMMEDIATELY

*Shovel / Sweep IMMEDIATELY

Targeted Re-inspection Date / Compliance Time: 3 calendar days from the receipt of this notice.

Reported to: Nel Lopez
Print Name

Signature

7576720522 5/2/17
Phone Number Date

Inspector: JaonTray D. Coley
Print Name

Signature

620-0839 5/2/17
Phone Number Date

RI - 1" 5/5

CITY OF NORFOLK

BUREAU OF ENVIRONMENTAL SERVICES

Erosion and Sediment Control Inspection Report

Project Name: NSU Brown Hall

Address: 700 Park Ave. CGP: No #:

Inspection Date: 5/8/17
Inspection Time: 10:16 am

Stage of Construction: __Pre-Con __Clearing __Rough Grading __Utility Work __ Demo x Bldg Const. __F. Grading __F. Stabilization

E & S Control Practices	Installed Effective	Installed Not Effective	Not Installed	Violation	Remove	N/A
Construction Entrance (CE)	✓					
Inlet Protection (IP)	✓					
Outlet Protection (OP)						x
Silt Fence (SF)	✓					
Sediment Trap/Basin (ST)						x
Soil Stabilization (SS)	✓					
Soil Stockpile Stabilization (SPS)	✓					
Tree Protection (TP)						x
Dewatering Structure (DS)						x
Concrete Washout (CW)	✓					
Straw Bales - SB	✓					

Trash/Debris on Site: Yes — Cleanup trash on site

Sediment Leaving Site: Yes — Shovel / Sweep pavement adjacent to site

The inspection reveals that deficiencies are present in the above categories.
The following actions are required to correct the deficiencies:

✓ CE IP SF SPS CW SB

**Installed Correctly - Maintain until surrounding area is stabilized

✓ straw bales installed

✓ silt fence is repaired and new silt fence installed

Targeted Re-inspection Date / Compliance Time: 14 calendar days from the receipt of this notice.

Reported to: Carl Green
Print Name
Carl Green
Signature
7735467 5/8/17
Phone Number Date

Inspector: JaonTray D. Coley
Print Name
Signature
620-0839 5/8/17
Phone Number Date

RI - 1" 5/15

CITY OF NORFOLK

BUREAU OF ENVIRONMENTAL SERVICES

Erosion and Sediment Control Inspection Report

Project Name: NSF

Address: 700 Park Ave. CGP: No #:

Inspection Date: 5/15/17
Inspection Time: 9:35 am

Stage of Construction: __Pre-Con __Clearing __Rough Grading
__Utility Work __ Demo X Bldg Const. __F. Grading __F. Stabilization

E & S Control Practices	Installed Effective	Installed Not Effective	Not Installed	Violation	Remove	N/A
Construction Entrance (CE)	✓					
Inlet Protection (IP)	✓	X				
Outlet Protection (OP)						X
Silt Fence (SF)	✓					
Sediment Trap/Basin (ST)						X
Soil Stabilization (SS)	✓	X				
Soil Stockpile Stabilization (SPS)	✓		X			
Tree Protection (TP)						X
Dewatering Structure (DS)						X
Concrete Washout (CW)						X

Trash/Debris on Site: No — Cleanup trash on site

Sediment Leaving Site: Yes — Continue sweeping daily

The inspection reveals that deficiencies are present in the above categories.
The following actions are required to correct the deficiencies:

✓ CE IP SF SPS

**Installed Correctly - Maintain until surrounding area is stabilized

IP - Install IP IMMEDIATELY

SPS - Install SPS within 24 hours

SS - Stabilize bare soils within 7 days

**Clean up mortar from brick layers

**Shovel / Sweep

Targeted Re-inspection Date / Compliance Time: 4 calendar days from the receipt of this notice.

Reported to: Carl Green
Print Name

Signature

7735667 5/15/17
Phone Number Date

Inspector: JaonTray D. Coley
Print Name

Signature

620-0839 5/15/17
Phone Number Date

CITY OF NORFOLK
BUREAU OF ENVIRONMENTAL SERVICES

Erosion and Sediment Control Inspection Report

Project Name: NSU Brown Hall

Address: 700 Park Ave. **CGP:** No **#:**

Inspection Date: 6/2/17
Inspection Time: 2:00 pm

Stage of Construction: __Pre-Con __Clearing __Rough Grading __Utility Work __ Demo x Bldg Const. __F. Grading __F. Stabilization

E & S Control Practices	Installed Effective	Installed Not Effective	Not Installed	Violation	Remove	N/A
Construction Entrance (CE)	✓					
Inlet Protection (IP)	✓					
Outlet Protection (OP)						x
Silt Fence (SF)	✓					
Sediment Trap/Basin (ST)						x
Soil Stabilization (SS)						x
Soil Stockpile Stabilization (SPS)						x
Tree Protection (TP)						x
Dewatering Structure (DS)						x
Concrete Washout (CW)	✓					
Wattles	✓					

Trash/Debris on Site: No

Sediment Leaving Site: Yes — Shovel / Sweep pavement adjacent to site

The inspection reveals that deficiencies are present in the above categories.
The following actions are required to correct the deficiencies:

✓ CE IP SF CW Wattles

**Installed Correctly - Maintain until surrounding area is stabilized

✓ silt fence is repaired

✓ IP is installed

✓ New wattles installed

*Shovel / Sweep street and sidewalk W of site and E of site

IP - Replace IP IMMEDIATELY

Targeted Re-inspection Date / Compliance Time: 14 **calendar days from the receipt of this notice.**

Reported to: Nef Lopez
Print Name
Neftali Lopez
Signature
757 672 0522 6/2/17
Phone Number Date

Inspector: JaonTray D. Coley
Print Name
Signature
620-0839 6/2/17
Phone Number Date

RI - .9" 6/5

CITY OF NORFOLK

BUREAU OF ENVIRONMENTAL SERVICES

Erosion and Sediment Control Inspection Report

Project Name: NSU Brown Hall

Address: 700 Park Ave. CGP: No #:

Inspection Date: 6/6/17
Inspection Time: 1121 am

Stage of Construction: __Pre-Con __Clearing __Rough Grading
__Utility Work __ Demo x Bldg Const. __F. Grading __F. Stabilization

E & S Control Practices	Installed Effective	Installed Not Effective	Not Installed	Violation	Remove	N/A
Construction Entrance (CE)	✓	x				
Inlet Protection (IP)	✓					
Outlet Protection (OP)						x
Silt Fence (SF)	✓	x				
Sediment Trap/Basin (ST)						x
Soil Stabilization (SS)						x
Soil Stockpile Stabilization (SPS)	✓	x				
Tree Protection (TP)						x
Dewatering Structure (DS)						x
Concrete Washout (CW)						x

Trash/Debris on Site: No

Sediment Leaving Site: No

The inspection reveals that deficiencies are present in the above categories.
The following actions are required to correct the deficiencies:

✓ CE IP SF SPS

**Installed Correctly - Maintain until surrounding area is stabilized

CE - Repair CE IMMEDIATELY

SF - Repair SF IMMEDIATELY

SPS - Repair SPS within 24 hours

SF - Install SF IMMEDIATELY

**S of site

*Shovel / Sweep IMMEDIATELY

Targeted Re-inspection Date / Compliance Time: 3 calendar days from the receipt of this notice.

Reported to: Nef Lopez
Print Name

Signature

7576720522 6/6/17
Phone Number Date

Inspector: JaonTray D. Coley
Print Name

Signature

620-0839 6/6/17
Phone Number Date

CITY OF NORFOLK
BUREAU OF ENVIRONMENTAL SERVICES

Erosion and Sediment Control Inspection Report

Project Name: NSU Brown Hall

Address: 700 Park Ave. **CGP:** No **#:**

Inspection Date: 6/9/17
Inspection Time: 1143 am

Stage of Construction: __Pre-Con __Clearing __Rough Grading
x Utility Work __ Demo x Bldg Const. x F. Grading __F. Stabilization

E & S Control Practices	Installed Effective	Installed Not Effective	Not Installed	Violation	Remove	N/A
Construction Entrance (CE)	✓	x				
Inlet Protection (IP)	✓					
Outlet Protection (OP)						x
Silt Fence (SF)	✓					
Sediment Trap/Basin (ST)						x
Soil Stabilization (SS)						x
Soil Stockpile Stabilization (SPS)						x
Tree Protection (TP)						x
Dewatering Structure (DS)						x
Concrete Washout (CW)	✓		x			

Trash/Debris on Site: No

Sediment Leaving Site: Yes — Shovel / Sweep pavement adjacent to site

The inspection reveals that deficiencies are present in the above categories.
The following actions are required to correct the deficiencies:

✓ CE IP SF CW

**Installed Correctly - Maintain until surrounding area is stabilized

CE - Repair CE within 48 hours

CW - Install CW IMMEDIATELY

**install CW for the E of site to STOP the washing out of concrete onto site ground

*Shovel / Sweep IMMEDIATELY

Targeted Re-inspection Date / Compliance Time: 5 **calendar days from the receipt of this notice.**

Reported to: Nef Lopez
Print Name
Nef Lopez
Signature
757 672 0522 6/9/17
Phone Number Date

Inspector: JaonTray D. Coley
Print Name
Signature
620-0839 6/9/17
Phone Number Date

CITY OF NORFOLK
BUREAU OF ENVIRONMENTAL SERVICES

Erosion and Sediment Control Inspection Report

Project Name: NSU Brown Hall

Address: 700 Park Ave. **CGP:** No **#:**

Inspection Date: 6/14/17
Inspection Time: 9:05 am

Stage of Construction: __Pre-Con __Clearing __Rough Grading __Utility Work __ Demo x Bldg Const. __F. Grading __F. Stabilization

E & S Control Practices	Installed Effective	Installed Not Effective	Not Installed	Violation	Remove	N/A
Construction Entrance (CE)	✓					
Inlet Protection (IP)	✓					
Outlet Protection (OP)						x
Silt Fence (SF)	✓	x				
Sediment Trap/Basin (ST)						x
Soil Stabilization (SS)						x
Soil Stockpile Stabilization (SPS)	✓	x				
Tree Protection (TP)						x
Dewatering Structure (DS)						x
Concrete Washout (CW)	✓					
Straw Bales	✓	x	x			

Trash/Debris on Site: Yes — Cleanup trash on site

Sediment Leaving Site: Yes — Shovel / Sweep pavement adjacent to site

The inspection reveals that deficiencies are present in the above categories.
The following actions are required to correct the deficiencies:

✓ CE IP SF SPS CW

**Installed Correctly - Maintain until surrounding area is stabilized

SF - Repair SF within 24 hours

SPS - Repair SPS within 24 hours (add new straw bales)

Straw Bales - add straw bales S and W of site

Targeted Re-inspection Date / Compliance Time: 2 **calendar days from the receipt of this notice.**

Reported to: Nef Lopez
Print Name
Signature
7572672052
Phone Number
6/14/17
Date

Inspector: JaonTray D. Coley
Print Name
Signature
620-0839
Phone Number
6/14/17
Date

RI - .9" 6/16

CITY OF NORFOLK

BUREAU OF ENVIRONMENTAL SERVICES

Erosion and Sediment Control Inspection Report

Project Name: NSU Brown Hall

Address: 700 Park Ave. CGP: No #:

Inspection Date: 6/20/17
Inspection Time: 8:05 am

Stage of Construction: __Pre-Con __Clearing __Rough Grading
__Utility Work __ Demo x Bldg Const. __F. Grading __F. Stabilization

E & S Control Practices	Installed Effective	Installed Not Effective	Not Installed	Violation	Remove	N/A
Construction Entrance (CE)	✓					
Inlet Protection (IP)	✓		x			
Outlet Protection (OP)						x
Silt Fence (SF)	✓	x	x			
Sediment Trap/Basin (ST)						x
Soil Stabilization (SS)						x
Soil Stockpile Stabilization (SPS)	✓					
Tree Protection (TP)						x
Dewatering Structure (DS)						x
Concrete Washout (CW)						x
Straw Bales	✓		x			

Trash/Debris on Site: No

Sediment Leaving Site: Yes — Shovel / Sweep pavement adjacent to site

The inspection reveals that deficiencies are present in the above categories.
The following actions are required to correct the deficiencies:

✓ CE IP SF SPS Straw Bales

**Installed Correctly - Maintain until surrounding area is stabilized

SF - Repair SF IMMEDIATELY

SF - Replace SF IMMEDIATELY

Straw Bales - install new straw bales W of site

*Shovel / Sweep IMMEDIATELY

Targeted Re-inspection Date / Compliance Time: 3 calendar days from the receipt of this notice.

Reported to: Carl Greene
Print Name

Signature

773 566 7 6/20/17
Phone Number Date

Inspector: JaonTray D. Coley
Print Name

Signature

620-0839 6/20/17
Phone Number Date

CITY OF NORFOLK
BUREAU OF ENVIRONMENTAL SERVICES

Erosion and Sediment Control Inspection Report

Project Name: NSU Park Ave.

Address: 700 Park Ave. **CGP:** No **#:**

Inspection Date: 7/28/17
Inspection Time: 1118 am

Stage of Construction: __Pre-Con __Clearing __Rough Grading __Utility Work __Demo x Bldg Const. __F. Grading __F. Stabilization

E & S Control Practices	Installed Effective	Installed Not Effective	Not Installed	Violation	Remove	N/A
Construction Entrance (CE)	✓					
Inlet Protection (IP)	✓					
Outlet Protection (OP)						x
Silt Fence (SF)	✓		x			
Sediment Trap/Basin (ST)						x
Soil Stabilization (SS)	✓					
Soil Stockpile Stabilization (SPS)	✓					
Tree Protection (TP)						x
Dewatering Structure (DS)						x
Concrete Washout (CW)						
Hay Bales	✓					x

Trash/Debris on Site: No

Sediment Leaving Site: Yes — Continue sweeping daily

The inspection reveals that deficiencies are present in the above categories.
The following actions are required to correct the deficiencies:

✓ CE IP SF SPS Hay Bales

**Installed Correctly - Maintain until surrounding area is stabilized

SF - Install SF IMMEDIATELY

**NW of site

Targeted Re-inspection Date / Compliance Time: 7 **calendar days from the receipt of this notice.**

Reported to: Nef Lopez
Print Name

Signature

7576720522 7/28/17
Phone Number Date

Inspector: JaonTray D. Coley
Print Name

Signature

620-0839 7/28/17
Phone Number Date

CITY OF NORFOLK
BUREAU OF ENVIRONMENTAL SERVICES

Erosion and Sediment Control Inspection Report

Project Name: NSU Brown Hall

Address: 700 Park Ave. **CGP:** No **#:**

Inspection Date: 8/3/17
Inspection Time: 1100 am

Stage of Construction: __Pre-Con __Clearing __Rough Grading __Utility Work __ Demo x Bldg Const. x F. Grading x F. Stabilization

E & S Control Practices	Installed Effective	Installed Not Effective	Not Installed	Violation	Remove	N/A
Construction Entrance (CE)	✓					
Inlet Protection (IP)	✓					
Outlet Protection (OP)						x
Silt Fence (SF)	✓		x			
Sediment Trap/Basin (ST)						x
Soil Stabilization (SS)	✓		x			
Soil Stockpile Stabilization (SPS)	✓					
Tree Protection (TP)						x
Dewatering Structure (DS)						x
Concrete Washout (CW)						x
Hay bales	✓		x			

Trash/Debris on Site: No

Sediment Leaving Site: Yes — Continue sweeping daily

The inspection reveals that deficiencies are present in the above categories.
The following actions are required to correct the deficiencies:

✓ CE IP SF SPS Hay bales

**Installed Correctly - Maintain until surrounding area is stabilized

✓ silt fence installed NW of site

SF - Install SF South of site IMMEDIATELY after laying brick pavers

Hay Bales - add more hay bales to stabilize bare soils SE of site

-OR-

SS - Stabilize bare soils with sod

Targeted Re-inspection Date / Compliance Time: 5 **calendar days from the receipt of this notice.**

Reported to: Nef Lopez
Print Name
Signature
7571672152
Phone Number
8/3/17
Date

Inspector: JaonTray D. Coley
Print Name
Signature
620-0839
Phone Number
8/3/17
Date

CITY OF NORFOLK
BUREAU OF ENVIRONMENTAL SERVICES

Erosion and Sediment Control Inspection Report

Project Name: NSU Brown Hall

Address: 700 Park Ave. **CGP:** No **#:**

Inspection Date: 8/9/17
Inspection Time: 10:35 am

Stage of Construction: __Pre-Con __Clearing __Rough Grading __Utility Work __ Demo x Bldg Const. __F. Grading x F. Stabilization

E & S Control Practices	Installed Effective	Installed Not Effective	Not Installed	Violation	Remove	N/A
Construction Entrance (CE)	✓					
Inlet Protection (IP)	✓	✗	✗			
Outlet Protection (OP)						✗
Silt Fence (SF)	✓					
Sediment Trap/Basin (ST)						✗
Soil Stabilization (SS)	✓					
Soil Stockpile Stabilization (SPS)		✗				
Tree Protection (TP)						✗
Dewatering Structure (DS)						✗
Concrete Washout (CW)						✗

Trash/Debris on Site: No

Sediment Leaving Site: Yes — Continue sweeping daily

The inspection reveals that deficiencies are present in the above categories.
The following actions are required to correct the deficiencies:

✓ CE IP SF

**Installed Correctly - Maintain until surrounding area is stabilized

IP - Install IP IMMEDIATELY

**IP missing W of site

IP - Reinstall IP within 24 hours

**Drop inlet protection, fabric needs to be reinstall properly

SPS - Install SPS within 24 hours

**need new hay bales for stockpile stabilization NE of site

Targeted Re-inspection Date / Compliance Time: 2 **calendar days from the receipt of this notice.**

Reported to: Carlton Bitgood
Print Name

Signature

Phone Number — Date: 8/9/17

Inspector: JaonTray D. Coley
Print Name

Signature

Phone Number: 620-0839 — Date: 8/9/17

CITY OF NORFOLK
BUREAU OF ENVIRONMENTAL SERVICES

Erosion and Sediment Control Inspection Report

Project Name: NSU Brown Hall

Address: 700 Park Ave. **CGP:** No **#:**

Inspection Date: 8/11/17
Inspection Time: 1:55 pm

Stage of Construction: __Pre-Con __Clearing __Rough Grading __Utility Work __ Demo __Bldg Const. __F. Grading __F. Stabilization

E & S Control Practices	Installed Effective	Installed Not Effective	Not Installed	Violation	Remove	N/A
Construction Entrance (CE)	✓					
Inlet Protection (IP)	✓		✗			
Outlet Protection (OP)						✗
Silt Fence (SF)	✓					
Sediment Trap/Basin (ST)						✗
Soil Stabilization (SS)						✗
Soil Stockpile Stabilization (SPS)		✗	✗			
Tree Protection (TP)						✗
Dewatering Structure (DS)						✗
Concrete Washout (CW)						✗

Trash/Debris on Site: No

Sediment Leaving Site: No

The inspection reveals that deficiencies are present in the above categories.
The following actions are required to correct the deficiencies:

✓ CE IP SF

**Installed Correctly - Maintain until surrounding area is stabilized

IP - Repair IP IMMEDIATELY (drop inlet protection E of site needs to be repaired)

IP - Install IP IMMEDIATELY

**install gutter buddy NW of site

SPS - Install SPS NE of site IMMEDIATELY

Targeted Re-inspection Date / Compliance Time: 4 **calendar days from the receipt of this notice.**

Reported to: Nef Lopez
Print Name

Signature

757 672 1065 22
Phone Number

8/11/17
Date

Inspector: JaonTray D. Coley
Print Name

Signature

620-0839
Phone Number

8/11/17
Date

CITY OF NORFOLK
BUREAU OF ENVIRONMENTAL SERVICES

Erosion and Sediment Control Inspection Report

Project Name: NSU Brown Hall

Address: 700 Park Ave. **CGP:** No **#:**

Inspection Date: 8/15/17
Inspection Time: 2:00 pm

Stage of Construction: __Pre-Con __Clearing __Rough Grading __Utility Work __ Demo x Bldg Const. __F. Grading x F. Stabilization

E & S Control Practices	Installed Effective	Installed Not Effective	Not Installed	Violation	Remove	N/A
Construction Entrance (CE)	✓					
Inlet Protection (IP)	✓					
Outlet Protection (OP)						✗
Silt Fence (SF)	✓					
Sediment Trap/Basin (ST)						✗
Soil Stabilization (SS)	✓		✗			
Soil Stockpile Stabilization (SPS)	✓	✗				
Tree Protection (TP)						✗
Dewatering Structure (DS)						✗
Concrete Washout (CW)						✗
Hay Bales	✓					

Trash/Debris on Site: No

Sediment Leaving Site: Yes — Shovel / Sweep pavement adjacent to site

The inspection reveals that deficiencies are present in the above categories.
The following actions are required to correct the deficiencies:

✓ CE IP SF Sod SPS Hay Bales

**Installed Correctly - Maintain until surrounding area is stabilized

✓ IP reinstalled correctly

✓ stockpile S of site has been covered with plastic

SS - Stabilize bare soils (finish putting down sod S & E of site

**keep silt fence installed until all bare areas are stabilized

SPS - repair SPS within 24 hours (pile of sand used for brick pavers, S of site)

*Shovel / Sweep brick area S of site IMMEDIATELY

Targeted Re-inspection Date / Compliance Time: 3 **calendar days from the receipt of this notice.**

Reported to: Carlton Bitgood
Print Name
Signature
Phone Number
8/15/17
Date

Inspector: JaonTray D. Coley
Print Name
Signature
620-0839
Phone Number
8/15/17
Date

CITY OF NORFOLK
BUREAU OF ENVIRONMENTAL SERVICES

Erosion and Sediment Control Inspection Report

Project Name: NSU Brown Hall

Address: 700 Park Ave. **CGP:** No **#:**

Inspection Date: 8/18/17
Inspection Time: 2:00 pm

Stage of Construction: __Pre-Con __Clearing __Rough Grading __Utility Work __ Demo X Bldg Const. __F. Grading X F. Stabilization

E & S Control Practices	Installed Effective	Installed Not Effective	Not Installed	Violation	Remove	N/A
Construction Entrance (CE)	✓					
Inlet Protection (IP)	✓	X				
Outlet Protection (OP)						X
Silt Fence (SF)	✓					
Sediment Trap/Basin (ST)						X
Soil Stabilization (SS)	✓		X			
Soil Stockpile Stabilization (SPS)	✓					
Tree Protection (TP)						X
Dewatering Structure (DS)						X
Concrete Washout (CW)						X

Trash/Debris on Site: No

Sediment Leaving Site: No — Continue sweeping daily

The inspection reveals that deficiencies are present in the above categories.
The following actions are required to correct the deficiencies:

✓ CE IP SF Sod SPS

**Installed Correctly - Maintain until surrounding area is stabilized

SS - Stabilize bare soils within 7 days

**finish install sod E of site

IP - Reinstall IP within 24 hours

**reinstall drop inlet protection, fabric to IP E of site

Targeted Re-Inspection Date / Compliance Time: 7 **calendar days from the receipt of this notice.**

Reported to: Nef Lopez
Print Name

Signature

7576720522 8/18/17
Phone Number Date

Inspector: JaonTray D. Coley
Print Name

Signature

620-0839 8/18/17
Phone Number Date

RI - 3.73" 8/29

CITY OF NORFOLK

BUREAU OF ENVIRONMENTAL SERVICES

Erosion and Sediment Control Inspection Report

Project Name: NSU Brown Hall

Address: 700 Park Ave. **CGP:** No **#:**

Inspection Date: 8/30/17
Inspection Time: 1116 am

Stage of Construction: __Pre-Con __Clearing __Rough Grading __Utility Work __ Demo x Bldg Const. __F. Grading x F. Stabilization

E & S Control Practices	Installed Effective	Installed Not Effective	Not Installed	Violation	Remove	N/A
Construction Entrance (CE)	✓					
Inlet Protection (IP)	✓		x			
Outlet Protection (OP)						x
Silt Fence (SF)	✓					
Sediment Trap/Basin (ST)						x
Soil Stabilization (SS)	✓					
Soil Stockpile Stabilization (SPS)	✓					
Tree Protection (TP)						x
Dewatering Structure (DS)						x
Concrete Washout (CW)						x

Trash/Debris on Site: No

Sediment Leaving Site: Yes — Continue sweeping daily

The inspection reveals that deficiencies are present in the above categories.
The following actions are required to correct the deficiencies:

✓ CE IP SF SPS

**Installed Correctly - Maintain until surrounding area is stabilized

✓ stockpile is removed

✓ sod installed E of site

IP - Install IP W of site IMMEDIATELY

**clean debris from inside of stormdrain

*Shovel / Sweep sediment W of site IMMEDIATELY

Targeted Re-inspection Date / Compliance Time: 2 **calendar days from the receipt of this notice.**

Reported to: Nef Lopez
Print Name

Signature

7576720522 8/30/17
Phone Number Date

Inspector: JaonTray D. Coley
Print Name

Signature

620-0839 8/30/17
Phone Number Date

CITY OF NORFOLK
BUREAU OF ENVIRONMENTAL SERVICES

Erosion and Sediment Control Inspection Report

Project Name: NSU Brown Hall

Address: 700 Park Ave. **CGP:** No **#:**

Inspection Date: 9/1/17
Inspection Time: 9:56 am

Stage of Construction: __Pre-Con __Clearing __Rough Grading __Utility Work __ Demo x Bldg Const. __F. Grading x F. Stabilization

E & S Control Practices	Installed Effective	Installed Not Effective	Not Installed	Violation	Remove	N/A
Construction Entrance (CE)	✓					
Inlet Protection (IP)	✓					
Outlet Protection (OP)						x
Silt Fence (SF)	✓					
Sediment Trap/Basin (ST)						x
Soil Stabilization (SS)						x
Soil Stockpile Stabilization (SPS)	✓					
Tree Protection (TP)						x
Dewatering Structure (DS)						x
Concrete Washout (CW)						x

Trash/Debris on Site: No

Sediment Leaving Site: Yes — Shovel / Sweep pavement adjacent to site

The inspection reveals that deficiencies are present in the above categories.
The following actions are required to correct the deficiencies:

✓ CE IP SF SPS

**Installed Correctly - Maintain until surrounding area is stabilized

✓ Inlet protection reinstalled

Targeted Re-inspection Date / Compliance Time: 14 **calendar days from the receipt of this notice.**

Reported to: Nef Lopez
Print Name

Signature

7576725572
Phone Number

9/1/17
Date

Inspector: JaonTray D. Coley
Print Name

Signature

620-0839
Phone Number

9/1/17
Date

RI - .8" 9/2

CITY OF NORFOLK

BUREAU OF ENVIRONMENTAL SERVICES

Erosion and Sediment Control Inspection Report

Project Name: NSU Brown Hall

Address: 700 Park Ave. **CGP:** No **#:**

Inspection Date: 9/6/17
Inspection Time: 9:18 am

Stage of Construction: __Pre-Con __Clearing __Rough Grading
__Utility Work __ Demo __Bldg Const. __F. Grading x F. Stabilization

E & S Control Practices	Installed Effective	Installed Not Effective	Not Installed	Violation	Remove	N/A
Construction Entrance (CE)	✓					
Inlet Protection (IP)	✓					
Outlet Protection (OP)						x
Silt Fence (SF)	✓					
Sediment Trap/Basin (ST)						x
Soil Stabilization (SS)	✓	x				
Soil Stockpile Stabilization (SPS)	✓					
Tree Protection (TP)						x
Dewatering Structure (DS)						x
Concrete Washout (CW)						x

Trash/Debris on Site: No

Sediment Leaving Site: No — Continue sweeping daily

The inspection reveals that deficiencies are present in the above categories.
The following actions are required to correct the deficiencies:

✓ CE IP SF SPS

**Installed Correctly - Maintain until surrounding area is stabilized

SS - Stabilize bare soils within 7 days

**install seeding and matting to ALL bare soils S and E of site

Targeted Re-inspection Date / Compliance Time: 7 **calendar days from the receipt of this notice.**

Reported to: Nef Lopez
Print Name
Signature
9/6/17
Phone Number Date

Inspector: JaonTray D. Coley
Print Name
Signature
620-0839 9/6/17
Phone Number Date

CITY OF NORFOLK
BUREAU OF ENVIRONMENTAL SERVICES

Erosion and Sediment Control Inspection Report

Project Name: NSU Brown Hall

Address: 700 Park Ave. CGP: No #:

Inspection Date: 9/20/17
Inspection Time: 10:32 am

Stage of Construction: __Pre-Con __Clearing __Rough Grading
__Utility Work __ Demo x Bldg Const. __F. Grading x F. Stabilization

E & S Control Practices	Installed Effective	Installed Not Effective	Not Installed	Violation	Remove	N/A
Construction Entrance (CE)	✓					
Inlet Protection (IP)	✓					
Outlet Protection (OP)						x
Silt Fence (SF)	✓					
Sediment Trap/Basin (ST)						x
Soil Stabilization (SS)	✓					
Soil Stockpile Stabilization (SPS)	✓					
Tree Protection (TP)						x
Dewatering Structure (DS)						x
Concrete Washout (CW)						x

Trash/Debris on Site: No

Sediment Leaving Site: No

The inspection reveals that deficiencies are present in the above categories.
The following actions are required to correct the deficiencies:

✓ CE IP SF SPS

**Installed Correctly - Maintain until surrounding area is stabilized

✓ bare soils are stabilized

**stabilize bare soils Far East of site

Targeted Re-inspection Date / Compliance Time: 14 calendar days from the receipt of this notice.

Reported to: Nef Lopez
Print Name

Signature

7576720522
Phone Number

9/20/17
Date

Inspector: JaonTray D. Coley
Print Name

Signature

620-0839
Phone Number

9/20/17
Date