Virginia State University MS-4 Permit: VAR040119 July 1, 2013 - June 30, 2014 Annual Report



Prepared for

Virginia State University Capital Outlay & Facilities Management PO Box 9414 Virginia State University, VA 23806

October 1, 2014

Prepared by: Timmons Group 1001 Boulders Parkway, Suite 300 Richmond, VA 23225 (804) 200-6500



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Appendices & Documentation

SC:	No Special Conditions	Documentation i	is required with this report	
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- MCM1: Fort Lee's Earth Day Event Documentation Arbor Day at Ettrick Elementary School Documentation USDA Field Day Documentation
- MCM2: Tree Campus USA Program Documentation VSU/City of Petersburg Rain Barrel Workshop Documentation Classroom guest speakers Documentation
- MCM3: Interconnected MS4 Systems Notification Completed Stormwater Outfall Inspection Forms
- MCM4: 2014 Land Disturbance Report Summary ESC Inspection Report Samples
- MCM5: Completed BMP Inspection Forms
- MCM6: NMP Documentation



Virginia State University MS4 Annual Report July 1, 2013 - June 30, 2014

1.0 Background Information

(1) Name and permit number of the program submitting the annual report; (2) The annual report permit year; (3) Modifications to any operator's department's roles and responsibilities; (4) Number of new MS4 outfalls and associated acreage by HUC added during the permit year; (5) Signed certification in accordance with 9VAC25-870-370.

 Name and permit number of the program submitting the annual report. Virginia State University Permit # VAR040119

 The annual report permit year.
This serves as the annual report for permit year one of the 2013-2018 General Permit term. This annual report covers a time period from approximately July 2013 – June 2014.

 Modifications to any operator's department's roles and responsibilities.
This is the first year of the 2013-2018 General Permit term and as such the Program Plan has been prepared to meet the new permit requirements. The operator's roles and responsibilities have been provided in the new Program Plan and are not considered to be modified for the purposes of this report.

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

No new outfalls were added during the permit year.

Signed certification in accordance with 9VAC25-870-370

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.

mith a gl

Jonathan Taylor Director for Capital Outlay

9-17-14 Date



For questions about the annual report submittal or VSU's MS4 Program Plan, please contact:

Jonathan Taylor Director for Capital Outlay Virginia State University Physical Plant Building 2916 Myster Macklin Street PO Box 9414, Suite 25 Virginia State University, VA 23806 Tel: (804) 504-7500 jataylor@vsu.edu

2.0 Status of Permit Condition Compliance

The status of compliance with permit conditions, an assessment of the appropriateness of the identified best management practices and progress towards achieving the identified measurable goals for each of the minimum control measures.

2.1. Assessment of BMP Appropriateness/Self Audit

This is the first year of the 2013-2018 General Permit term and as such a new Program Plan has been prepared to meet the new permit requirements as required at the time of this report. An MS4 program evaluation was performed on the VSU MS4 Program in accordance with the EPA's <u>MS4 Program Evaluation Guidance</u>, as required by the 2008-2013 General Permit. The results of the evaluation in conjunction with the 2013-2018 General Permit requirements were used to develop a new Program Plan for 2013-2018. The new Program Plan elements and BMPs are considered to be appropriate based on the 2013-2018 General Permit requirements.

2.2. Measurable Goals Progress

MCM 1: Public Education and Outreach

This is the first year of the 2013-2018 General Permit term and as such the Program Plan has been prepared to meet the new permit requirements for MCM1 as required at the time of this report. While the 2013-2018 Program Plan was being prepared, VSU continued to implement the public education and outreach program from the 2008-2013 Program Plan that was included with the registration statement as allowed by the 2013-2018 General Permit. This annual report includes an update on the 2008-2013 MCM 1 Program Plan BMPs/elements in addition to an update on the 2013-2018 MCM1 Program Plan BMPs/elements, as appropriate. Subsequent annual reports will include the reporting requirements based on the 2013-2018 Program Plan.

Annual Reporting based on the 2008-2013 Program Plan:

BMP 2.1.1 Environmental Stewardship link on VSU website



The University has created the link on their website, which was located at the following web address: <u>http://www.vsu.edu/about/administrative-offices/admin-finance/capital-outlay-and-facilities/facilities-management/enviromental-stewardship.php</u>

The webpage information has been moved due to a recent website update, and can now be found at:

<u>http://www.vsu.edu/about/administrative-offices/admin-finance/facilities-</u> management/enviromental-stewardship.php

BMP 2.1.2 Public Outreach

During 2013/2014, students, faculty and staff at VSU participated in the following public education and outreach initiatives, specifically geared at reaching target audiences:

- 1) Fort Lee's Annual Earth Day event was held on Thursday, April 24, 2014. VSU participated as an exhibitor and showcased information on Water Quality, Land Stewardship, Smart Land Use, and Organic Gardening.
- 2) On April 25, 2014, VSU donated a tree for Arbor Day at Ettrick Elementary School. The tree was planted in the courtyard by 2nd grade students with the help of the University students. The hands-on experience helped the students learn about Arbor Day and trees. The elementary students were also give a tree to plant at home.
- 3) In June 2014, VSU hosted the 43,560 / USDA Field Day at Randolph Farm, which featured learning how to gross up to \$43,560 on one acre of land.

Please refer to Appendix MCM 1 for documentation of these events.

BMP 2.1.3 Campus engineering group oversight

There were no changes to this program during the 2013-2014 reporting period.

BMP 2.1.4 Work Quality and Control Standards for contractors

There were no changes to this program during the 2013-2014 reporting period.

Annual Reporting Based on the 2013-2018 Program Plan:

Annual Reporting Requirement 1: Provide a list of the education and outreach activities conducted during the reporting period for each high-priority water quality issue, the estimated number of people reached, and an estimated percentage of the target audience or audiences that will be reached.



A list of proposed education and outreach activities will be provided with the 2013-2018 permit year 2 annual report as required by the 2013-2018 permit.

Annual Reporting Requirement 2: A list of the education and outreach activities that will be conducted during the next reporting period for each high-priority water quality issue, the estimated number of people that will be reached, and an estimated percentage of the target audience or audiences that will be reached.

Provided in the new 2013-2018 Program Plan.

MCM 2: Public Involvement and Participation

This is the first year of the 2013-2018 General Permit term and as such the new Program Plan has been prepared to meet the new permit requirements for MCM2 as required at the time of this report. The requirements of the 2008-2013 General Permit and associated Program Plan are very similar to the requirements of the 2013-2018 General Permit and associated Program Plan. As such, VSU continued to implement the 2008-2013 Program as appropriate while the new 2013-2018 Program was also prepared and implemented during the reporting period. This annual report includes an update on the 2013-2018 Program Plan requirements, as they were identified and completed during the Permit Term; however, any additional questions about the 2008-2013 Program can be addressed by the Program Administrator, if necessary.

Annual Reporting Requirement 1: Provide a web link to the MS4 Program Plan and Annual Report

The MS4 Program Plan and Annual Report are available for public review at the following website: <u>http://www.vsu.edu/about/administrative-offices/admin-finance/capital-outlay-and-facilities/capital-outlay/annual-standard-forms-info.php.</u>

Annual Reporting Requirement 2: Documentation of compliance with the public participation requirements.

VSU identified and participated in the following four local events/activities provided in the 2013-2018 Program Plan to address public involvement with stormwater and environmental activities:

- 1. Promote and support Ft. Lee's Annual Earth Day Event (refer to MCM1 for documentation of this event)
- 2. Seek Tree Campus USA Program Designation. VSU formed a joint Tree Campus USA and Stormwater Committee and is taking steps to receive the Tree Campus USA designation. Refer to MCM 2 for documentation of this activity.
- 3. See Partnership opportunities for public involvement and participation with other local MS4 programs. VSU and the City of Petersburg



participated in a joint rain barrel workshop. Refer to MCM2 for documentation of this activity.

4. Seek Classroom guest speakers that focus on stormwater. Timmons Group gave a presentation about the University's MS4 program and stormwater management on April 17, 2014 to one of the VSU urban forestry courses. Refer to MCM2 for documentation of this activity.

MCM3: Illicit Discharge Detection and Elimination

This is the first year of the 2013-2018 General Permit term and as such the new Program Plan has been prepared to meet the new permit requirements for MCM3 as required at the time of this report. The requirements of the 2008-2013 General Permit and associated Program Plan are very similar to the requirements of the 2013-2018 General Permit and associated Program Plan. As such, VSU continued to implement the 2008-2013 Program as appropriate while the new 2013-2018 Program was also prepared and implemented during the reporting period. This annual report includes an update on the 2013-2018 Program Plan requirements, as they were identified and completed during the Permit Term; however, any additional questions about the 2008-2013 Program can be addressed by the Program Administrator, if necessary.

Annual Reporting Requirement 1: A list of any written notifications of physical interconnection given by the operator to other MS4s

During the annual outfall IDDE screenings it was discovered that the VSU MS4 is interconnected with VDOT's MS4 along Chesterfield Avenue. A copy of the notification letter sent to VDOT has been included in Appendix MCM3

Annual Reporting Requirement 2: The total number of outfalls screened during the reporting period, the screening results, and detail of any follow-up actions necessitated by the screening results.

22 outfalls were screened during the reporting period resulting in no follow-up actions required aside from the continuation of annual screening unless otherwise required by suspected illicit discharge. Refer to Appendix MCM 3 for outfall screening results.

Annual Reporting Requirement 3: A summary of each investigation conducted by the operator of any suspected illicit discharge. The summary must include: (i) the date that the suspected discharge was observed, reported, or both; (ii) how the investigation was resolved, including any follow-up, and (iii) resolution of the investigation and the date the investigation was closed.

No illicit discharges were reported during the reporting period.

Annual Reporting Requirement 4: Outfall mapping & Database Table

The required outfall mapping and database table are provided in the Program Plan.



MCM 4: Construction Site Stormwater Runoff Control

This is the first year of the 2013-2018 General Permit term and as such the new Program Plan has been prepared to meet the new permit requirements for MCM4 as required at the time of this report. The requirements of the 2008-2013 General Permit and associated Program Plan are very similar to the requirements of the 2013-2018 General Permit and associated Program Plan. As such, VSU continued to implement the 2008-2013 Program as appropriate while the new 2013-2018 Program was also prepared and implemented during the reporting period. This annual report includes an update on the 2013-2018 Program Plan requirements, as they were identified and completed during the Permit Term; however, any additional questions about the 2008-2013 Program can be addressed by the Program Administrator, if necessary.

Annual Reporting Requirement 1: Total number of regulated land-disturbing activities

Four regulated land disturbing activities were conducted within the reporting period. Refer to Appendix MCM 4 for documentation.

Annual Reporting Requirement 2: Total number of acres disturbed

Approximately 50 acres of area was disturbed for this reporting period. Refer to Appendix MCM 4 for documentation.

Annual Reporting Requirement 3: Total number of inspections conducted

Approximately 12 inspections were conducted within this reporting period. The University is working to improve on the frequency and consistency of the inspections. Refer to Appendix MCM 4 for representative inspection report documentation.

Annual Reporting Requirement 4: A summary of the enforcement actions taken, including the total number and type of enforcement actions taken during the reporting period

No enforcement actions were taken beyond typical compliance time requirements provided on erosion and sediment control inspection forms.

MCM5: Post Construction Stormwater Management in New Development and Development on Prior Developed Lands

This is the first year of the 2013-2018 General Permit term and as such the new Program Plan has been prepared to meet the new permit requirements for MCM5 as required at the time of this report. The requirements of the 2008-2013 General Permit and associated Program Plan are very similar to the requirements of the 2013-2018 General Permit and associated Program Plan. As such, VSU continued to implement the 2008-2013 Program as appropriate while the new 2013-2018 Program was also prepared and implemented during the reporting period. This annual report includes an update on the 2013-2018 Program Plan requirements, as they were identified and



completed during the Permit Term; however, any additional questions about the 2008-2013 Program can be addressed by the Program Administrator, if necessary.

Annual Reporting Requirement 1: The operator shall maintain an updated electronic database of all known operator-owned and privately-owned stormwater management facilities that discharge into the MS4.

The required stormwater management facility database is provided in the Program Plan.

Annual Reporting Requirement 2: The operator shall submit an electronic database or spreadsheet of all stormwater management facilities brought online during each reporting year with the appropriate annual report.

Two BMPs were brought online during the reporting period. The most up to date stormwater management facility database is provided in the Program Plan.

Annual Reporting Requirement 3: VSU provides post-construction inspections and maintenance of operator-owned post-construction stormwater management facilities in accordance with the Annual Standards and Specifications for Erosion and Sediment Control and Stormwater Management provided in Appendix MCM 4 of the Program Plan.

Annual facility inspection reports are provided in Appendix MCM 5 for documentation purposes. The two new facilities brought online during the reporting period will be inspected annually as required starting in permit year 2.

MCM 6: Pollution Prevention/Good Housekeeping for Municipal Operations

This is the first year of the 2013-2018 General Permit term and as such the Program Plan has been prepared to meet the new permit requirements for MCM6 as required at the time of this report. While the 2013-2018 Program Plan was being prepared, VSU continued to implement the Pollution Prevention/Good Housekeeping for Municipal Operations Program from the 2008-2013 Program Plan that was included with the registration statement as allowed by the 2013-2018 General Permit. This annual report includes an update on the 2008-2013 MCM 6 Program Plan BMPs/elements in addition to an update on the 2013-2018 MCM 6 Program Plan BMPS/elements as appropriate. Subsequent annual reports will include the reporting requirements based on the 2013-2018 Program Plan.

Annual Reporting based on the 2008-2013 Program Plan:

BMP 2.6.1 Campus-wide pollution prevention and good housekeeping

Trash accumulation in Fleets Branch is minimized and controlled by conducting a daily trash pick-up on campus (seven days per week). Maintenance personnel police the campus every morning for trash to ensure that trash is picked up before it blows into catch basins, retention ponds, or Fleets Branch; additionally, trash is picked-up immediately following all outdoor sporting events to ensure that the campus grounds and the storm water system is kept clean.



In general, good Operations and Maintenance practices implemented and practiced on a routine basis included use of refueling checklists prior to fuel deliveries at the heating plant and when refueling the emergency diesel generators.

An Oil Discharge Control Plan (ODCP) was approved in July 2011 to meet DEQ requirements. The ODCP is designed to meet Commonwealth of Virginia DEQ requirements.

BMP 2.6.2 Nutrient Management Plan

A copy of the certification for 2013 is included in Appendix MCM 6 of this report. The University switched landscape service providers in January 2014. The staff using applying nutrients are certified applicators; copies of the certifications are included in Appendix MCM 6

Annual Reporting based on the 2013-2018 Program Plan:

Annual Reporting Requirement 1: A summary report on the development and implementation of the daily operational procedures

Daily operational procedures will be developed by permit year 2 as required by the 2013-2018 General Permit.

Annual Reporting Requirement 2: A summary report on the development and implementation of the required SWPPPs

Locations and facilities requiring SWPPPs have been identified in the Program Plan as required by the timeframes in the 2013-2018 General Permit. SWPPPs will be prepared planned to be developed and implemented by permit year 4 as required by the 2013-2018 General Permit.

Annual Reporting Requirement 3: A summary report on the development and implementation of the turf and landscape nutrient management plans that includes:

1. The total acreage of lands where turf and landscape nutrient management plans are required

Turf and landscape nutrient management plans are required by the MS4 permit on approximately 16.07 acres of campus.

2. The acreage of lands upon which turf and landscape nutrient management plans have been implemented

As required by the permit, NMPs are planned to be implemented on the following schedule:

a. By June 30, 2015, not less than 15% of all identified acres will be covered by turf and landscape nutrient management plans;



b. By June 30, 2016, not less than 40% of all identified acres will be covered by turf and landscape nutrient management plans;

c. By June 30, 2017, not less than 75% of all identified acres will be covered by turf and landscape nutrient management plans;

d. By June 30, 1018, not less than 100% of all identified acres will be covered by turf and landscape nutrient management plans;

A summary report on the required training, including a list of training events, the training date, the number of employees attending training and the objective of the training

The new Program Plan was prepared to reflect the training requirements of the 2013-2018 General Permit.

3.0 Results of Collected Data

Results of information collected and analyzed, including monitoring data, if any, during the reporting period.

Virginia State University was not required to collect and analyze any formal monitoring data during this reporting period.

4.0 Future Stormwater Activities

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

- Prepare Chesapeake Bay TMDL Action Plan
- Develop and implement Standard Operating Procedures
- Implement Training Program as developed in the 2013-2018 Program Plan
- Implement Public Education and Outreach Program as proposed in the 2013-2018 Program Plan
- Implement Public Involvement and Participation Program as identified in the 2013-2018 Program Plan
- Implement IDDE Program as identified in the 2013-2018 Program Plan
- Implement Construction Site Stormwater Runoff Control Program as identified in the 2013-2018 Program Plan
- Implement the Post-Construction Stormwater Management Program as identified in the 2013-2018 Program Plan
- Implement the Pollution Prevention/Good Housekeeping for Municipal Operations Program as identified in the 2013-2018 Program Plan

5.0 Changes in BMPs and Minimum Control Measures

A change in any identified best management practices or measurable goals for any of the minimum control measures including steps taken to address deficiencies.



5.1. Changes in BMPs

This is the first year of the 2013-2018 General Permit and as such the Program Plan has been prepared to meet the 2013-2018 General Permit requirements. The BMPs/Program Elements have been provided in the 2013-2018 Program Plan included with this annual report submittal.

5.2. Changes in Measurable Goals

This is the first year of the 2013-2018 General Permit and as such the Program Plan has been prepared to meet the 2013-2018 General Permit requirements. The measureable goals have been provided in the 2013-2018 Program Plan included with this annual report submittal.

6.0 Government Reliance for Permit Obligations

Notice that the operator is relying on another government entity to satisfy some of the permit obligations (if applicable).

Not applicable at this time.

7.0 Section II C Program Status

The approval status of any programs pursuant to Section II C (if appropriate), or the progress towards achieving full approval of these programs

Not applicable at this time.

8.0 General Permit Section I B 9 Information

Information required for any applicable TMDL special condition contained in Section I

- VSU has not been assigned any WLAs in any TMDLs as of the preparation of this report.
- The Program Plan has been updated to reflect the special condition requirements for the Chesapeake Bay TMDL.

Appendix SC

No Special Conditions (SC) documentation is required with this annual report.

Appendix MCM 1

2014 FORT LEE EARTH AND SAFETY DAY

Exhibitor Participation Form **DUE: March 31, 2014**

Thank you for participating in this year's Earth and Safety Day celebration! We sincerely appreciate your time, effort, and service to the Fort Lee Community. The event wouldn't be the same without you!

EVENT DETAILS: Thursday, April 24, 2014 from 8a.m. to 2p.m. at the Fort Lee Theater (Lee Playhouse) and adjacent parking lot and lawn areas. This year's event will consist of two, eighty minute presentations inside the Post Theater highlighting the importance of Environmental Stewardship, Safe Driving, and Suicide Prevention. Educational exhibitors and displays will be outdoors in the lawn and parking area surrounding the Theater. The event is open to Military and Civilian Personnel and the Fort Lee Community. No school children will be in attendance this year.

DIRECTIONS: From Lee Ave Gate, continue straight on Lee Ave, turn left onto Mahone Ave after Williams Stadium.

INCLEMENT WEATHER: This year's event will host scheduled speakers indoors, so there is no rain date. If inclement weather is forecasted, exhibitors unable to attend can notify the Exhibitor Coordinator at any time.

OTHER INFORMATION: Participation in the event is free and we will provide tables and chairs for your exhibit. However, you must provide your own table and chairs if not requested in this Participation Form by the due date. We apologize for any inconvenience as there is limited indoor/covered exhibit space. Covered space can be provided on a first-come-first-served basis or to accommodate health needs. We recommend exhibitors bring a popup tent to provide shade as we have a limited number of tents available. We apologize, but electricity is not readily available this year. All exhibitors are required to check in at the exhibitor check-in desk prior to set-up. You may set up your exhibit from 7a.m. to 8a.m. the morning of the event and we ask that you do not remove your exhibit until 2 p.m. If you require special set-up/take-down accommodation, please contact the Exhibitor Coordinator. Also, as this is an Earth and Safety Day event we ask that you remain conscious of your impact on the environment and safety when planning your exhibit – try to use recycled materials, reduce or eliminate paper handouts.

If you have any questions/comments/concerns feel free to contact the Exhibitor Coordinator at: <u>Alexander.a.alvarado6.ctr@mail.mil</u> 804-734-5123

Your completion of this form indicates you understand and accept the event information described above.

Business/Organization Name: Virginia State University – College of Agriculture			
Contact Person: Pau	la H. McCapes	Title: P	ub. Relations & Mktg Specialist
Address: 1 Hayden St	treet – Virginia State University		
City/State: Petersburg	·g, Va		Zip Code: 23806
Phone #: 804.524.58	39	Fax #:	n/a
Emergency Phone #:	804.337.1886		
Exhibit Plans/Details: Water Quality, Land Stewardsh		hip, Smart land use, o	organic gardening
# of Tables Requested: We will bring our own		# of Chair Reque	ested: We will bring our own
Location requested (covered walkway, lawn, near another exhibitor, etc.):		1	e approximately 4 10'x10' areas plus a atory (the size of a charter coach bus)

Please return completed Participation Forms by March 31 to <u>alexander.a.alvarado6.ctr@mail.mil</u>

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Arbor Day at Ettrick Elementary

Published: May 20, 2014





contributed photos Virginia State University faculty joins Ettrick Elementary School students and staff on Arbor Day to plant a tree in the courtyard and lead a lesson about how trees grow.

On Arbor Day, April 25, Virginia State University donated a tree for the courtyard and a science lesson for second-grade students at Etrick Elementary School. Dr. Gregory Frey spoke with the students about how trees grow as students helped to plant a tree in the courtyard. Albert Reid, Dr. Marcus Corner and Joel Koci from the VSU faculty all assisted in helping the Etrick students experience this hands-on lesson about Arbor Day and trees. Students were given trees to plant at home and additional seedlings were planted at Etrick Elementary School. Kimberly Reynolds of Chesterfield Courty Public Schools said in an emailed statement, "It will be great, a unique educational experience for these second-grade students to see how these seedlings have grown over the years as they mature in grade levels and the trees mature in height." Reynolds also said that the partnership between Virginia State University and Ettrick Elementary School allows students to learn from some of the best educators of agriculture.



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The VSU Small Farm Outreach Program presents

The 43,560/USDA Field Day

Farm Credit

Thursday, June 12, 2014

at VSU Randolph Farm 4415 River Road, South Chesterfield, VA

Learn How:

Red Thumb

*You can possibly gross up to \$43,560 on one acre of land

 * USDA can help you grow your operation through the new Farm Bill

<u>Schedule</u>

8:00 AM -	Registration Opens (breakfast for pre-registered attendees)
8:45 AM -	Welcome and Introductory Remarks
9:15 AM -	Transition to First Breakout Session
9:30 AM -	Session One Begins
10:45 AM -	Transition to Second Breakout Session
11:00 AM -	Session Two Begins
12:15 PM -	Official End of Program (Speakers will remain on site to
	answer questions from attendees.)

Pre-registration is free and guarantees box breakfast

EVENT WILL BE HELD RAIN OR SHINE

Register now at:

http://tinyurl.com/vsufieldday2014

or call Mark Klingman at (804) 524-5493

Sponsored by Virginia USDA StrikeForce,Old Dominion Electric Cooperative, and Colonial Farm Credit

Appendix MCM 2

Amelia Wehunt

Subject: Location:	Tree Campus USA Committee Meeting Physical Plant, Rm. 10A
Start: End: Show Time As:	Tue 5/6/2014 2:00 PM Tue 5/6/2014 4:00 PM Tentative
Recurrence:	(none)
Meeting Status:	Tentatively accepted
Organizer:	Jane S. Harris

Please hold this date for the first meeting of the Tree Campus USA committee for VSU Meeting details to be distributed closer to meeting date

COMMITTEE MEMBERS

Jane Harris	<u>isharris@vsu.edu</u>	Associate Vice President	Capital Outlay and Facilities
Jonathan Taylor	jataylor@vsu.edu	Director, Capital Outlay	Capital Outlay and Facilities
Gilbert Hanzlik	ghanzlik@vsu.edu	Director, Facilities	Capital Outlay and Facilities
Billy Pipp	wpipp@vsu.edu	Contractor	Capital Outlay and Facilities
Miles Steele	msteele@vsu.edu	Contractor	Capital Outlay and Facilities
Amelia Wehunt	amelia.wehunt@timn ons.com	<u>n</u> Contractor	Capital Outlay and Facilities
Peter Girardi		Contractor	Capital Outlay and Facilities
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Angela Baker	angela.baker@live.co m	Graduate Student	Biology
Heather Barrar	BarrarH@chesterfield	<u>.</u> Sr. Planner	Chesterfield County
Richard Reuse	richard.reuse@dof.vir ginia.gov	Area Forester	VA Dept of Forestry
Joel Koci	<u>jkoci@vsu.edu</u>	Extension Associate	Cooperative Extension
Mike Hickam	<u>mhickam@vsu.edu</u>	Safety Manager	Campus Safety Office

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DRAFT

VSU Campus Tree and Stormwater Advisory Committee

May 2014

Members

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Jonathan Taylor	jataylor@vsu.edu	Director, Capital Outlay	Capital Outlay and Facilities
Gilbert Hanzlik	ghanzlik@vsu.edu	Director, Facilities	Capital Outlay and Facilities
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Amelia Wehunt	amelia.wehunt@timmons.com	Contractor	Capital Outlay and Facilities
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Angela Baker	angela.baker@live.com	Graduate Student	Biology
Heather Barrar	BarrarH@chesterfield.gov	Sr. Planner	Chesterfield County
Richard Reuse	richard.reuse@dof.virginia.gov	Area Forester	VA Dept of Forestry
Joel Koci	jkoci@vsu.edu	Extension Associate	Cooperative Extension
Mike Hickam	mhickam@vsu.edu	Safety Manager	Campus Safety Office

ZamjBrown

<u>Agenda</u>

- 1. Welcome and Introductions
- 2. Purpose of the Committee
 - Tree Campus USA (see appendix)

- MS4 Operator •
- 3. Discussion of committee membership and need for bylaws and/or formalization of membership selection process
- 4. Arbor Day Observance at Ettrick Elementary (April 25, 2014)
- 5. Tree Campus USA Application
- 6. Campus Tree Inventory (Frey, Baker)
- 7. Campus Tree Care Plan (Koci)
- 8. Other Business

Tree Campus USA Standards

National Arbor Day Foundation

http://www.arborday.org/programs/treeCampusUSA/standards.cfm#standard1

Standard 1 - Campus Tree Advisory Committee

A Campus Tree Advisory Committee comprised of members representing the diverse audience of those with a stake in campus trees is established and meets regularly.

This committee must include a representative from each of the following audience:

- Student (undergraduate or graduate).
- Faculty.
- Facility Management.
- Community for example city forester, municipal arborist, community tree board member.

Each individual campus may also have other interested student organizations, alumni, faculty, or staff that could be represented such as administration, sustainability coordinator, professor emeritus, etc.

While responsibility of the campus trees often ultimately lies with the campus forester, arborist, landscape architect, or designated facilities department, the Campus Tree Advisory Committee can assist in providing guidance for future planning, approval of a comprehensive campus tree plan, education of the campus population as to the benefits of the campus trees, and development of connectivity to the community.

Standard 2 - Campus Tree Care Plan

A Campus Tree Care Plan should be flexible enough to fit the needs and circumstances of the particular campus. The Tree Care Plan should be goal oriented and provide the opportunity to set good policy and clear guidance for planting, maintaining, and removing trees. It also provides education to the campus community, citizens, contractors, and consultants about the importance of the campus forest and the protection and maintenance of trees as part of the growth and land development process.

A Campus Tree Care Plan must include:

- Clearly stated purpose.
- Responsible authority/department who enforces the Campus Tree Care Plan.

- Establishment of a Campus Tree Advisory Committee, terms of the representatives, and role committee plays.
- Campus tree care policies for planting, landscaping, maintenance and removal including establishing and updating a list of recommended and prohibited species; managing for catastrophic events.
- Protection and Preservation policies and procedures include process for implementing tree protection plan including step-by-step process that every project must follow including construction and trenching.
- Goals and Targets develop at least one goal and target for your Campus Tree Plan. These could include (but are not limited to) tree canopy target, development of a link between the Campus Tree Plan and other green initiatives on campus or in the community; completion of a campus-wide tree inventory, etc. Include how the goal will be measured.
- Tree damage assessment enforcement, penalties, and appeals.
- Prohibited practices.
- Definitions of terminology related to campus trees.
- Communication strategy how the campus tree care plan will be communicated to the college community and contractors to heighten awareness about policies and procedures as well as the goals of the institution.

Both Georgia Tech and Virginia Tech have great examples of a comprehensive Campus Tree Care Plan. You may download PDFs of their documentation:

Standard 3 - Campus Tree Program with Dedicated Annual Expenditures

A college campus, to be designated a Tree Campus USA, must allocate finances for its annual campus tree program. Evidence should be shown that an annual work plan has been established and expenditures dedicated towards that work plan.

It is suggested, but not mandatory, that campuses work towards an annual expenditure of \$3 per full-time enrolled student.

Expenditures could include, but are not limited to:

- Cost of trees purchased
- Labor, equipment and supplies for tree planting, maintenance (pruning, watering, fertilization, mulching, competition control, etc.) and removal, if needed
- Value of volunteer labor (# of hours × \$18) and other contributions from student or civic organizations
- Staff time dedicated to campus forest planning, tree care contractors

- All associated costs of the campus tree management including:
 - o public education related to the campus forest;
 - o professional training;
 - related association memberships (International Society of Arboriculture and local chapter, Society of Municipal Arborists, state urban forest council, etc.);
 - o campus tree inventory

Standard 4 - Arbor Day Observance

An Arbor Day observance provides a golden opportunity to educate the campus community to the benefits of the trees on their campus property and in the community. The Arbor Day observance can be on the campus or held in conjunction with the community where the campus is located. Your event may be held at an appropriate time for your campus.

Evidence - recording of date observance was held with attachment that includes program of activities, news coverage, and/or pictures.

Standard 5 - Service Learning Project

The Service Learning Project should be an outreach of the spirit of the Tree Campus USA initiative. This project should provide an opportunity to engage the student population with projects related to trees and can be part of a campus or community initiative. The project must be done within the course of the year application is submitted.

Project ideas include, but are not limited to:

- Volunteer tree plantings or tree maintenance
- Tree inventory (campus or community)
- Establish a Nature Explore Classroom for young children at an early childhood development center on your campus or in your community. Learn more about Nature Explore Classrooms.
- Establishment of campus arboreta
- Student-led effort to have community designated a Tree City USA
- Coordinate internships with the urban forestry or parks department in your community
- Assist Project Learning Tree or other programs centered around trees in training teachers at schools near your campus or organize training for your school's College of Education
- Other tree-related service learning or educational programs for students
- Partnership with state forestry departments on regional projects

Virginia State University Tree Care Plan

<u>Purpose</u>: The overall purpose is to provide an aesthetic, safe and a sustainable campus urban forest. The purpose will be accomplished by utilization of ANSI A. 300 and Z. 60 standards along with ISA's best management practices (BMPs) the following objectives will be satisfied.

- Ensure proper plant selection for the site.
- Ensure proper plant age diversity, by proper maintenance of the mature trees along with the maintenance of the younger trees.
- Ensure proper plant diversity by utilizing the Santamore rule of 10% species/20% genius/30% family.
- Ensure the protection of tree/plantings in construction site and staging area.
- Establish a response plan for the safe and timely cleanup of tree debris following a sudden weather event.
- Ensure the replacement of a tree when it has died or displaced due to pest infestation, construction activity, or weather.
- Ensure that ANSI A. 300 and ANSI Z. 60, along with ISA's best management practices are written into contracts.

<u>Responsible Department:</u> The Virginia State University Facilities Department (along with the UF Exten.) is/are responsible for the tree care plan.

The Campus Tree Advisory Committee is composed of

Campus Arboriculture Practices

Preface; Current woody plant maintenance emphasizes the need to look at plants in holistic manor. With this approach one considers all three organs (roots- stems- foliage) and how they need to work in unison so the plant is able to reach its full potential and reach its normal live span. Woody plants have a juvenal, mature and over mature life stage, and each period requires different maintenance procedures. For woody plants to obtain their full potential proper handling in the juvenal stage is very critical for complete proper development of the plant. Following is an outline of arboricultural practices that will enhance woody plants ability to reach its full potential.

1. Planting;

Proper installation of woody plants is the most important aspect for perpetuating the campus urban forest. Specs should be written into the contract to follow ISA BMP standards for installation.

2. Pruning;

Schedule of pruning will be defined by the plants location, age, Genus. The type of pruning to be performed will be written into the contract.

3. Cultural Practices;

Refers to proper mulching, fertilization and pest management.

4. Other Practices;

Removals, Storm damage response

5. Protection and Preservation;

To enhance tree survival due to construction activity a qualified assessor consulted at the DESIGN stage. This follows ANSI standards and ISA BMPs. Not all trees are savable but those that are can be identified, and the impact reduced.

6. Goals and Targets;

Tree inventory, Tree canopy survey, Landscape Master plan

7. Tree Damage Assessment, Enforcement and Penalties

This refers to contractors doing damage to trees/plantings during their activity, vandalism and other damage to vegetation.

8. Prohibited Practices

Bike locking to trees, Destruction of trees (Va. Code title18.2 chp.5, sec18.2)

9. Communication Strategy

Once adopted the Campus Tree Care Plan will be used by the University Architect, included with invitation to bid, and staff made aware of the tree care procedures.



WHY SHOULD MY SCHOOL PARTICIPATE?

Trees benefit the environment. They provide shade, protect us from the wind, and clean our air...



BUT YOUR CAMPUS CAN BENEFIT AS WELL:

- A commitment to trees on your campus can significantly reduce the amount of energy a campus, and community, needs to generate.
- Planting, and maintaining, trees on your ٠ campus and in the community reduces carbon dioxide in the atmosphere.
- Green spaces give students and faculty the έ. setting to relax with others, or on their own.
- Involving students in service learning projects focusing on the planning, planting, and maintenance of trees on campus encourages their commitment to creating a more sustainable future for all.
- y meeting the annual standards and being recognized as a Tree Campus USA[®] college, you will create a campus that not only helps to benefit and create a more sustainable environment, but instills pride in the students, faculty, and community.

Tree Campus USA colleges will receive the recognition materials below that can be showcased throughout the campus, as well as press releases to be distributed on campus and in the community.



A partnership of:

Arbor Day Foundation

ampus USA Standards Summary at arborday.org

Arbor Day Foundation

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We inspire people to plant, nurture, and celebrate trees.cart

You are here: <u>Home</u> \rightarrow <u>Programs</u> \rightarrow <u>Tree Campus USA</u> \rightarrow Summary of Standards

Tree Campus USA Summary of Standards

Your college campus can receive annual Tree Campus USA recognition by meeting five standards. Campuses meeting these standards will receive recognition materials to showcase their dedication to the campus environment.

The standards should be completed, and application submitted,

by December 31 to be recognized as a Tree Campus USA college for that calendar year.

- <u>Standard 1 Campus Tree Advisory Committee</u>
- Standard 2 Campus Tree Care Plan
- <u>Standard 3 Campus Tree Program with Dedicated Annual Expenditures</u>
- Standard 4 Arbor Day Observance
- Standard 5 Service Learning Project

Apply now.

If you have specific questions about tree planting or maintenance, contact your local <u>Urban</u> Forestry Coordinator or Arborist.

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Bampus USA Standards at arborday.org

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FAQ for Tree Campus USA Standard 1: Establishment of a Campus Tree Advisory Committee



Does the Campus Tree Advisory Committee have to be a newly established committee, or if we already have one that has the same function, just a different name, can this be considered our Tree Advisory Committee?

As long as there is a committee that manages the implementation of your Tree Care Plan and has the required representatives (one member from the faculty, facilities department,

http://www.arborday.org/programs/treecampususa/faq.cfm

established.

What are examples of meeting agendas for the Tree Advisory Committee?

If you have never met as a committee before, consider for your first meeting, gathering all the appropriate representatives simply to discuss the Tree Campus USA program and the goals that need to be achieved to receive the recognition within that calendar year.

Future meetings can be held to set targets for the following year, update your tree care plan, get feedback/advice from representatives about tree management issues, etc.

Is the Campus Tree Advisory Committee going to take decision-making authority away from the grounds or facilities departments?

No, the Campus Tree Advisory Committee is just that - advisory. This committee will provide valuable insights, support, and advice to grounds or facilities departments, which generally hold the decision-making authority when it comes to campus tree management.

"Describing the committee's value, Matt Gart, Campus Landscape Architect at Virginia Tech, focuses on their role as a resource for addressing landscaping issues. 'When we aren't certain of the best route, we ask for wisdom from the committee,' he says. 'For example, to remove a tree in today's climate, you need others to back you. They fulfill that role. They're also great reinforcement when you need backing for projects. I've discovered that, after I get their approval and approach administration for funding, we're much more likely to receive the financial support we've requested." - (Excerpt from the Professional Grounds Maintenance Society's September/October 2008 Forum newsletter. PP. 22-23)

The Campus Tree Advisory Committee members and establishment date are already written on the main application page. Is more information needed about it in our Tree Care Plan?

Yes, it is important to establish your committee within the Tree Care Plan document, describe its role, which persons will be included in the committee, and the terms of the committee members. This component of the Tree Care Plan is often left out by colleges as they assume that since they listed the members under Standard 1 they do not need to address the committee again in the Tree Care Plan.

Standard 2: Evidence of a Campus Tree Care Plan

Can the Tree Care Plan be changed in the future?

Your Tree Care Plan can always be changed and should be reviewed and/or updated regularly. When applying for recertification, at the very least, the "Goals" section will need to be updated on a yearly basis. Every fifth year, a newly revised plan must be submitted. We already have a Tree Care Plan. Do we have to make up a new one to meet all the specifications listed under Standard 2?

No, you do not have to create a new document, but all 10 of the components of a Tree Care Plan listed under Standard 2 must be included somewhere in the plan.

Do you have an example of a Campus Tree Care plan?

Yes, Virginia Tech's and Georgia Tech's Tree Care plans are available for download, below. Both plans characterize the purpose of this standard by establishing a document that can be used as a reference tool to educate individuals about the campus' tree care goals. **Please do not copy and paste from these documents.**

- Virginia Tech
- Georgia Tech

Standard 3: Dedicated Annual Expenditures

Does the Arbor Day Foundation have suggestions for how we could get more funds for tree-planting and management?

The Arbor Day Foundation strongly encourages you to work toward achieving Tree Campus USA recognition. Going through the process of organizing your campus' tree care and management plans clearly demonstrates to your administration, donors, and grantors that you have a plan and vision for your campus trees. The aforementioned groups will be more likely to fund projects for campuses that can directly illustrate how they will be using and caring for trees on their campus in the future.

If we become a Tree Campus USA college, will there be specific grant money made available to us that otherwise wouldn't be?

No specific grant money is available through the Arbor Day Foundation. It can only help you, though, when applying for grants through other organizations, to have the Tree Campus USA designation that recognizes your achievements of best tree management practices. Sometimes grant funding is available through state forestry departments. State Urban Forestry Coordinators can provide insight on any grants that may be available to your institution.

Standard 4: Involvement in an Arbor Day Observance

Does the Arbor Day observance have to be on Arbor Day?

http://www.arborday.org/programs/treecampususa/faq.cfm

dy Asl

y Asked Questions - Tree Campus USA at arborday.org

No, you can organize an Arbor Day observance on a date that is most convenient for your campus.

Does the Arbor Day observance have to pertain only to trees or can it include other elements of the environment and community involvement in outdoor education?

The Arbor Day observance can include other elements of the environment and community involvement. For example, if you already have a yearly "Sustainability Week" and want to have an Arbor Day observance in conjunction with that event, that will fulfill the requirements for Standard 4.

Standard 5: Instituting a Service Learning Project

Do our service projects have to take place on our campus?

Service projects can be held off campus, but they should engage your own college students and take place within the local community.

Do we have to create a unique service project every year?

No, you can do the same service project every year.

Miscellaneous

If we have questions about specific trees on our campus, are there recommendations of whom we should call?

Yes, the Arbor Day Foundation always encourages you to get in touch with your local International Society of Arboriculture (ISA)-certified arborist or Urban and Community Forester since they live in your area and know the specifics of tree care and management for your community. For links to these contacts, visit our list of Urban Forestry Coordinators or the International Society of Arboriculture.

Tree Campus USA is an Arbor Day Foundation program sponsored in partnership with Toyota.









VSU Campus Tree and Stormwater Advisory Committee Meeting Minutes May 6, 2014

• Introductions

Dr. Frey issued a brief welcome and purpose of the meeting, and the committee, representing University faculty, staff, students, contractors, state government, and adjacent local government conducted self-introductions.

• Tree Campus USA discussion

- 1. The purpose of the Tree Campus USA committee is multi-fold and provides many benefits representing a broad ranges of interests including:
 - Aesthetics;
 - Security;
 - Campus Tree Health;
 - Stormwater and water quality benefits; and
 - Minimizing maintenance costs.
- 2. Dr. Frey provided a brief summary of the University's participation in an Arbor Day Observance at Ettrick Elementary School on April 25, 2014. 100 trees were planted.
- 3. A brief discussion the Tree Campus USA Application was had, and a consensus was reached that the University is very close to, or has met, each the five standards.
- 4. Dr. Frey and Angela Baker provided an informal presentation on the Tree Inventory standard and their progress. Ms. Baker discussed their methodology and answered questions. The group provided feedback on any additional data desired to be collected during the Tree Inventory process, as follows:
 - Size, including diameter at breast height (DBH), and crown
 - Condition
 - Potential hazardous limbs
 - Canopy coverage
 - Conflicts the group reached a consensus that any staking/guy wires found can be removed as they have likely been in place for the 9 month maximum.

Mr. Billy Pipp offered to provide/lend the Tree Inventory group a total of six reflective vests to use when conducting the Tree Inventory.

- 5. Joel Koci has prepared a Tree Care Plan that was disseminated to the group for review prior to the meeting, and it was established that he will be the responsible party/contact for the Tree Care Plan.
- 6. A fair amount of discussion was conducted revolving around the CPTED (Crime Prevention through Environmental Design) program, and the need to select appropriate vegetative species on campus so as to not hinder safety and sight lines.
- 7. It was recommended a Campus Walk be conducted by a sub-committee to communicate varying perspectives and prevent any potential conflicts of interest.
- 8. Information sharing some discussion was had on different sets of information that has been collected, established through various University activities, and it was determined that an added



benefit of the Committee is the opportunity to share relevant information and data for mutual benefit.

• **MS4**—Aislinn made a brief presentation on the University's MS4 including addressing the "Who, What, When, Where, and Why," to provide the Committee goals and objectives of the meeting as pertained to the MS4 Permit, MCM#1. Specifically, Aislinn expressed a desire for the committee to establish some ideas regarding high priority water quality issues on campus and associated target audiences, as well as means and methods to distribute a stormwater relevant message.

Public Education and Outreach on Stormwater Impacts

The group performed a brainstorming activity and identified the four following high priority water quality issues with associated target audiences and potential strategies to develop the University's Stormwater Education and Outreach Program:

- 1. Reduce runoff from development on campus/address poor quality receiving waters and/or degraded streams
 - Rationale: The University is presently implementing a Campus-wide Master Plan and desires to minimize its development impact on the hydrologic cycle
 - Target Audience/Population Size: Professional A/E Community conducting Designs on Campus
 - Means and Methods: Stormwater Management Plan, Annual Standards and Specifications for Erosion and Sediment Control and Stormwater Management, Campus Design Guidelines incorporating the Tree Care Plan specifications.
- 2. Litter and Recycling
 - Rationale: The University strives to reduce litter into storm sewer systems on campus and adjacent receiving waters and promote the recycling program
 - Target Audience/Population Size: Department of Agriculture student population
 - Means and Methods: Activities conducted in the Natural Resource Management and Urban Natural Resource Management classes
 - Storm drain marking
 - Stormwater management facility tours
 - Guest speakers
- 3. Illicit Discharges
 - Rationale: The Food Service workers need educated on proper disposal of Fats, Oil and Grease and good housekeeping and pollution prevention measures
 - Target Audience/Population Size: Food Service Workers
 - Means and Methods: Fact sheets disseminated annually, education signage/posters posted in prominent location.
- 4. Student and Faculty Stormwater Education Outreach
 - Rationale: Overcome the challenge of communicating with students who may not regularly seek out environmental information (i.e., Honors students, Ag and Biology Students, Natural Resource students)
 - Target Audience/Population Size: Students and Faculty interested in Student Affairs



 Means and Methods: Distribute educational materials and/or conduct annual stormwater presentation at a minimum of one Town Hall event per year.

• Public Involvement & Participation

The committee did not specifically choose four public participation activities from the list of activities previously defined below and included in the agenda, but did add new activities to the list (bold):

- Earth Day at Ettrick Elementary
- o Campus-wide or possibly Facilities/Capital Outlay Earth Day Event
- Fort Lee's Annual Earth Day
- Tree Campus USA Program
- Farm Vegetable Pick
- Opportunities with other MS4s, like the rain barrel workshop and Chesterfield Sustainability Committee
- Kid's Tech University Event
- Classroom guest speakers that focus on stormwater
- $\circ~$ Arbor Day The University recently participated in Arbor Day activities at Ettrick Elementary and planted 100 trees
- Tree Inventory

• Action Items

The following list of action items was generated during the Committee Meeting:

- Aislinn will summarize the Post-it Board Easel Pad notes in minutes for the Committee;
- o Committee members will follow up with each other and share relevant data/information;
- Committee members will volunteer for appropriate sub-committees as follows:
 - An educational activity sub-committee to review and formalize the Stormwater Education and Outreach Plan.
 - A Campus-Walk sub-committee interested in providing biological and CPTED guidance for the Tree Campus USA standard development.
- o The Tree Care Plan will be incorporated into University Design Guidelines;
- The next VSU Campus Tree and Stormwater Advisory Committee meeting will likely be scheduled for late summer, prior to the start of the fall semester.

Amelia Wehunt

From: Sent: To: Cc: Subject: Aislinn Creel Tuesday, November 05, 2013 11:43 PM Amelia Wehunt Andrew Gould FW: Rain Barrels

Amelia,

Darryl forwarded me a couple of other emails, but this one is very useful. VSU has a professor (Dr. Witiak) who is getting grant money and instigating public outreach for rain barrel workshops. I suggest we find a way to bring her and her colleagues in Facilities Management to work toward a common goal, at least regarding MCMs 1 and 2, if nothing else.

Thanks, Aislinn

-----Original Message-----From: Darryl Walker [mailto:dwalker@petersburg-va.org] Sent: Tuesday, November 05, 2013 11:13 AM To: Aislinn Creel Subject: FW: Rain Barrels

FYI - here's the specifics of the other grant I was referring to with VSU. More on this to follow.

-----Original Message-----From: Sarah M. Witiak [mailto:switiak@vsu.edu] Sent: Friday, August 23, 2013 11:01 AM To: Darryl Walker Subject: Rain Barrels

Hello Darryl,

I am getting the grant proposal together for the rain barrel workshop. We have up to 4000 available, which I think we should spend as much as possible on the barrels. I have some calls out to see who will give us a deal on the barrels in bulk.

In the meantime, here are some tasks that we will have to do/explain in the proposal. Any places where you can offer help/direction will be great. I think we have a good shot at getting it from my conversations with people on campus.

Short background on stormwater in Petersburg and importance of community education Role of rain barrels in sw mgmt.

how we will do the program:

I have spoken to some other folks, and they suggested 3 short (15-20 min) speakers - a powerpoint for a general overview of options, a panel discussion, and maybe a local watershed person. There is someone in ag who may be able

1

to help with one of these, you might be able to do one, and so if you know someone else who is a good speaker, let me know. We should probably also have a demonstration of how to install/use/maintain the barrel.

Have students help people figure out area/volume drained on site after presentations - we can train them I think, and can use google earth perhaps?

we need to have a site for the workshop - train station? If the city can donate the space ,that would be great.

Paper/printing - maybe send every attendee with a copy of your credit manual that is on the web?

10\$ registration fee - important so that people actually show up. More than one person from the family can come on a single fee, but they only get 1 barrel per fee. The registration fee could be used to help cover paper costs if needed or into publicity. Might ask them to bring info about their house (gutter position etc)

Publicity - I know the paper best, but you might have more/better suggestions (churches? TV? Radio?)

We will need a letter of support from the city for the grant (due sept 15 I think)

Smiles, Sarah Melissa

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Pollutants in Stormwater

- ✓ Polluted stormwater runoff has many adverse effects on plants, fish, animals, and people!
- ✓ Common Stormwater Pollutants:
 - Sediment
 - Excess nutrients from fertilizers (nitrogen & phosphorus)
 - Bacteria
 - Debris and trash
 - Hazardous wastes such as pesticides or herbicides
 - Petroleum products from vehicles and parking ots
 - Deicing materials
 - Thermal pollution

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What is an MS4?

- ✓ Municipal separate storm sewer system
- ✓ Storm sewer pipes are not connected to sanitary sewer pipes
- ✓ An MS4 can be:
 - Cities or counties
 - Colleges or Universities
 - Correctional facilities
 - Hospitals

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Military Bases



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Example of an MS4



What Does an MS4 Operator Do?

- Public Outreach and Education
- Public Involvement/Participation

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- Illicit Discharge Detection and Elimination
- Construction Site Stormwater Runoff
- Post-Construction Stormwater Management
- Pollution Prevention/Good Housekeeping



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✓ This MCM requires regulated small MS4s to develop and implement a program that promotes awareness of pollution prevention techniques and engagement with local watershed quality.

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MCM 2: Public Involvement/Participation

✓ This MCM requires regulated small MS4s provide opportunities for the public to play an active role in both in both the development and implementation of the program.

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MCM 3: Illicit Discharge Detection & Elimination

- ✓ Illicit discharges enter the system through two avenues:
 - Direct Connections
 - Wastewater piping either mistakenly or deliberately connected to the storm drains
 - Indirect Connections
 - Infiltration into the MS4 from cracked or damaged sanitary systems
 - Spills collected by drain inlets
 - Paint, used oil, or other pollutants dumped directly into a drain
- ✓ Once an illicit discharge is identified and/or detected, the source must be eliminated!







MCM 4: Construction Site Stormwater Runoff Control

- ✓ Ensures that sediment and pollutants from construction activities do no enter the storm sewer system
- ✓ Examples:

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- Construction entrance
- Silt fence
- Matting/Mulching
- Storm drain inlet protection





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MCM 5: Post-Construction Stormwater Management

- ✓ Requires the operator of the regulated small MS4 to develop, implement, and enforce a program to enforce a program to reduce post-construction runoff to their storm sewer
- ✓ Includes a combination of structural and non-structural BMPs
- ✓ Some common structure BMPs include:
 - Detention ponds
 - Retention ponds
 - Bioretention
 - Green parking
 - Proprietary BMPs

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MCM 6: Pollution Prevention & Good Housekeeping

- Requires the small MS4 operator to examine and alter their own actions to help ensure reduction in the amount and type of pollutant that:
 - Collect on streets, parking lots, open spaces, and storage and vehicle maintenance areas
 - Results from actions such as environmentally damaging land development and flood management practices
- Common pollution prevention & good housekeeping practices:
 - Street sweeping
 - Maintaining storm inlets
 - Protecting equipment
 - Disposing of waste
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Development & Urbanization Affect the Hydrologic Cycle!



What Can We Do About Protecting Our Waters?

- ✓ Responsible water use and waste disposal
- ✓ Education of others on the importance of water quality
- ✓ Best Management Practices (BMPs)







Did you know?



After Construction of the Retention Pond



Questions?



MS4 Programs ultimately serve to protect our waterways and ensure that water bodies are safe for recreation, aquatic life, and also to ensure safe drinking water for all of us!

Before Construction of the Retention Pond

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Appendix MCM 3



VIRGINIA STATE UNIVERSITY POST OFFICE BOX 9414 PETERSBURG, VIRGINIA 23806

Capital Outlay

Phone (804) 504-7500 Fax (804) 524-5383

September 10, 2014

Virginia Department of Transportation c/o Roy T. Mills, State Stormwater Program Administrator 1401 E. Broad Street Richmond, VA 23219

Subject: MS4 Permit; Notice of Potential Interconnected Stormwater Systems

Attention: MS4 Permit Manager

Virginia State University (VSU) is a Phase II small MS4 and is covered under the Virginia Stormwater Management Program (VSMP) General Permit for Discharges of Stormwater from Small Municipal Separate Storm Sewer System (Registration Number VAR040119).

The purpose of this letter is to notify you of the potential for interconnections between the stormwater systems operated by VSU and the stormwater systems that you operate. The MS4 permit requires that VSU notify in writing, any downstream regulated MS4 to which VSU is physically interconnected. There is no action required on your part at this time, as this letter is for notification purposes only.

If you have questions or desire additional information related to this subject, please contact me at 804-504-7500 or jataylor@vsu.edu.

Sincerely,

1. Ath I we

Jonathan Taylor MS4 Program Administrator Virginia State University



Capital Outlay Facilities PO Box 9044 Virginia State University, VA 23806 Phone: (804)524-3971 Fax: (804)524-5383

Virginia State University

Stormwater Outfall Inspection Form

Outfall ID #	Inspection Date: Inspector:	Photo	#'s: 0.0 1	432,43	
	73014 E Gallagher		431,	432,43	33
	C. (Nadope)	1			
	End of Pipe Diameter: 2.4 Ft	Pipe f	Material		
			Concrete		
Outfall	Circular		PVC		
Description	Elliptical		Steel		
	Box	Other			
	Other:				
Date of Last Rainfall		stimated Disch	arge Rate	-	
7127114	0.08	Stillated Biser	in Be nate		
Weather Information Ca	an Be Found @:			2	
	ound.com/history/airport/KRIC/2014			Visual O	oservations
http://www.wundergro	Outfall Submerged? Y	[Flauri	Present ?	VISUALQ	N
				41	N
	If yes, (Circle):	width	of Water Su	rrace .4	0.001
	Water:	Appro	oximate Dept	h of Water (ft	1: 0.02
	Fully	Appro	oximate Flow	Velocity (ft./s):
	Partially	Appro	ximate Flow	Rate (cfs):	. 608
	Sediment:		Color/Clarity	(Check all tha	t apply):
	Fully		5		
	Partially				
	Debris Around Outfall (Check all that apply):		Muddy Milky		
Findings	None		Sheen		
	Sediment		Soapy Foam		
	Trash		(TOann		
		Other:			
	Other:	-	Orden (Charala	11 + + + + + + + + + + + + + + + + + +	
	Debris in Pipe (Check all that apply): None	None		all that apply)	Ĩ
		/			
	Sediment	Petro			
	Trash	Sewa			P
	Other:	Other			
	Visual Observations (Circle)		atables		Y/(1)
		Depo	sits/Stains		Y/N)
	Describe				
	Vegetation Condition (Circle)	Exces	sive	Inh	ibited
	Describe	None	·/		
	Pipe Condition (Circle)	Good	Fair	Poor	
	Describe	_			

Capital Ou Virginia State Univers Phone: (Fax: (
Structure Condition (Circle)	Good	Fair	Poor	
Describe				
Notable Biology (animals, insects, plants, etc.) Describe:				
Receiving Stream Name	Fleets	Branc	ch	
Notes/Necessary Action:				
Certification: If no action is required, certify the following:				
"I certify that the outfall inspection is complete and that no illicit di				
Signature of Inspector			0/14	
Signature of Inspector	u	 Date	114	
Fillicit discharge investigation is required, provide a time frame for Document all steps utilized to eliminate the illicit discharge to inclu	investigation comp	Date	<u>,</u>	 ۱uire
If illicit discharge investigation is required, provide a time frame for Document all steps utilized to eliminate the illicit discharge to inclu three separate investigation with the appropriate documentation.	investigation comp de date, time, and	Date	<u>,</u>	quire
Cine Dallage	investigation comp de date, time, and a ng:	Date	rmittent discharges rec	
If illicit discharge investigation is required, provide a time frame for Document all steps utilized to eliminate the illicit discharge to inclu three separate investigation with the appropriate documentation. Upon illicit discharge elimination, re-inspect and certify the followin "I certify that the illicit discharge has been eliminated, documented	investigation comp de date, time, and a ng:	Date Detion:	rmittent discharges rec	
If illicit discharge investigation is required, provide a time frame for Document all steps utilized to eliminate the illicit discharge to inclu three separate investigation with the appropriate documentation. Upon illicit discharge elimination, re-inspect and certify the following	investigation comp de date, time, and a ng:	Date	rmittent discharges rec	



Dutfall ID # 2	Inspection, Date: Inspector:	Photo #'s:
	7 30 14 E Galloun	Photo #'s: 435, 436, 437, 000
	C. Charlel	
	End of Pipe Diameter: 1.25	Pipe Material
	End of Pipe Diameter: 1. Da J	Concrete
Outfall	Circular	PVC
Description	Elliptical	Steel
	Вох	Other: HDPE
	Other:	
ate of Last Rainfall	Quantity of Last Rainfall (in.) Es	timated Discharge Rate
7127114	0.08	
Veather Information Ca		
ttp://www.wundergro	ound.com/history/airport/KRIC/2014	Visual Observa ti ons
	Outfall Submerged? Y (N)	Flow Present ? Y (N)
	If yes, (Circle):	Width of Water Surface
	Water:	Approximate Depth of Water (ft.):
	Fully	Approximate Flow Velocity (ft./s):
	Partially	
	Sediment:	Approximate Flow Rate (cfs):
		Flow Color/Clarity (Check all that apply): Clear
	Fully	
	Partially Debug Annual Outfall (Charle all that annual)	Muddy
Findings	Debris Around Outfall (Check all that apply): None'	
	Sediment	Sheen Soapy Foam
	Trash	
	Other:Other:	
	Debris in Pipe (Check all that apply):	Flow Odor (Check all that apply):
	None	None
	Sediment	Petroleum
	Trash	Sewage
	Other:	Other:
		Floatables Y/N
	Visual Observations (Circle)	
		Deposits/Stains Y/N
	Describe	0
	Describe	
	Vegetation Condition (Circle)	Excessive Inhibited
		NUMBER
	Describe	None
	Pipe Condition (Circle)	Good Fair Poor
	Describe	

		PO Box 9 versity, VA 23 e: (804)524-3 k: (804)524-5		
Structure Condition (Circle)	Good	Fair	Poor	
Describe				
Notable Biology (animals, insects, plants, etc.) Describe:				
Receiving Stream Name	Fleets	Bra	nch	
Notes/Necessary Action:				
			-	
f no action is required, certify the following:	scharge is evident a	t this time. 730 Date		
f no action is required, certify the following: I certify that the outfall inspection is complete and that no illicit di <u>Europe</u> Signature of Inspector	w_	7 30 Date		
f no action is required, certify the following: I certify that the outfall inspection is complete and that no illicit di <u>Signature of Inspector</u> Fillicit discharge investigation is required, provide a time frame for Document all steps utilized to eliminate the illicit discharge to inclu	· investigation comp	730 Date	<u>14</u>	arges require
f no action is required, certify the following: I certify that the outfall inspection is complete and that no illicit di Example 1 Signature of Inspector f illicit discharge investigation is required, provide a time frame for Document all steps utilized to eliminate the illicit discharge to inclu hree separate investigation with the appropriate documentation.	investigation comp de date, time, and a	730 Date	<u>14</u>	arges require
f no action is required, certify the following: I certify that the outfall inspection is complete and that no illicit di Signature of Inspector f illicit discharge investigation is required, provide a time frame for Document all steps utilized to eliminate the illicit discharge to inclu three separate investigation with the appropriate documentation. Jpon illicit discharge elimination, re-inspect and certify the following	investigation comp de date, time, and a ng:	730 Date letion:	<u>14</u> ermittent discha	
	investigation comp de date, time, and a ng:	730 Date letion:	<u>14</u> ermittent discha	



Dutfall ID # 3	Inspection Date: Inspector:	Photo #'s:		
	13014 E Gallaght	4000 4444		
	C. Charope	11		
	End of Pipe Diameter: 1.5	Pipe Material		
	End of Pipe Diameter: 1.5	Concrete		
Outfall	Circular	PVC		
Description	× Elliptica)	Steel		
o cochperent	Box			
		Other:		
ate of Least Date fall	Other:			
ate of Last Rainfall		ated Discharge Rate		
7 27 14	0.08			
eather Information Ca	-			
tp://www.wundergro	und.com/history/airport/KRIC/2014	Visual Observations		
	Outfall Submerged? Y (N)	Flow Present ? Y (N)		
	If yes, (Circle):	Width of Water Surface		
	Water:	Approximate Depth of Water (ft.):		
	Fully	Approximate Flow Velocity (ft./s):		
	Partially			
	· · ·	Approximate Flow Rate (cfs):		
Findings	Sediment:	Flow Color/Clarity (Check all that apply):		
	Fully	Clear		
	Partially	Muddy		
	Debris Around Outfall (Check all that apply):	Milky		
	None	Sheen		
	Sediment	Soapy Foam		
	Trash			
	Other: Laves	Other:		
	Debris in Pipe (Check all that apply):	Flow Odor (Check all that apply):		
	None	None		
	(Sediment)			
		Petroleum		
	Other: VLANES	Sewage		
	Other: July US	Other:		
	Visual Observations (Circle)	Floatables Y/N		
		Deposits/Stains Y/N)		
	Describe	0		
	Vegetation Condition (Circle)	Excessive Inhibited		
	Describe			
	Pipe Condition (Circle)	Good Fair Poor		
	Describe			

Virginia State Univers Phone: (1				ital Outlay Facilit PO Box 90 Iniversity, VA 238 one: (804)524-39 Fax: (804)524-53
Structure Condition (Circle)	Good	Fair	Poor	
Describe				
Notable Biology (animals, insects, plants, etc.) Describe:				
Receiving Stream Name	Fleets	Bran	ch	
Notes/Necessary Action:				
f no action is required, certify the following: I certify that the outfall inspection is complete and that no illicit dis				
f no action is required, certify the following:		nt this time. 730 Date		
f no action is required, certify the following: I certify that the outfall inspection is complete and that no illicit dis <u>ELIA E.</u> Signature of Inspector	<u> </u>	730 Date		
f no action is required, certify the following: T certify that the outfall inspection is complete and that no illicit dis <u>Euro</u> <u>E</u> <u>Signature of Inspector</u> f illicit discharge investigation is required, provide a time frame for Document all steps utilized to eliminate the illicit discharge to include	investigation comp	730 Date	14	charges require
f no action is required, certify the following: T certify that the outfall inspection is complete and that no illicit dis Signature of Inspector f illicit discharge investigation is required, provide a time frame for Document all steps utilized to eliminate the illicit discharge to incluc three separate investigation with the appropriate documentation.	investigation comp de date, time, and a	730 Date	14	charges require
If no action is required, certify the following: I certify that the outfall inspection is complete and that no illicit dis ELLA E. Signature of Inspector If illicit discharge investigation is required, provide a time frame for Document all steps utilized to eliminate the illicit discharge to incluce three separate investigation with the appropriate documentation. Upon illicit discharge elimination, re-inspect and certify the followin	investigation comp de date, time, and a g:	Date	ffff	
- save a garage	investigation comp de date, time, and a g:	Date	ffff	



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Outfall ID #	Inspection Date: Inspector:	Photo #'s:	and the state		
	73014 E Gallay		, 441, 442, 443		
	C. Chappy	ell			
	End of Disa Disautor 45 11	Pipe Material			
	End of Pipe Diameter: 4.5	Concrete			
Outfall	Circular	PVC			
Description	Elliptical	Steel			
· · · ·	Box	Other:			
	Other:				
Date of Last Rainfall		stimated Discharge Rate			
77714	0.08	Be Hate			
Neather Information C					
	ound.com/history/airport/KRIC/2014		Visual Observations		
rep.//www.wuhuergre	Outfall Submerged? Y (N ³)	Flow Present ?	(Y) N		
	If yes, (Circle):	Width of Water Sur			
	Water:	59-0415 m	· / / 7.		
		Approximate Depth			
	Fully		Velocity (ft./s): 0.75		
	Partially		Rate (cfs): 0.0075		
	Sediment:	Flow Color/Clarity ((Check all that apply):		
	Fully	Clear			
	Partially	Muddy			
Findings	Debris Around Outfall (Check all that apply)		Milky		
i indings	None	>> Sheen			
	Sediment		Soapy Foam		
	Trach				
	Other:	Other:			
	Debris in Pipe (Check all that apply):	Flow Odor (Check a	all that apply):		
	None	None)			
	Sediment	Petroleum			
	Trash	Sewage			
	Other:	Other:	<u></u>		
		Floatables	Y(N)		
	Visual Observations (Circle)	Deposits/Stains	VAR		
		Deposits/stails			
	Describe				
	Describe				
	Vegetation Condition (Circle)	Excessive	Inhibited		
		Excessive	innoitea		
	Describe				
		Automation and a second			
		(cost)	Deer		
	Pipe Condition (Circle)	(Good) Fair	Poor		
	Describe				

Capital C Virginia State Unive Phone: Fax:				O Box 9 , VA 23
Structure Condition (Circle)	Good	Fair	Poor	
Describe				
Notable Biology (animals, insects, plants, etc.) Describe:				
Receiving Stream Name	Fleets	Bhan	Ch	-
Notes/Necessary Action:				
Certification: f no action is required, certify the following: 'I certify that the outfall inspection is complete and that no illicit d	ischarge is evident	at this time." 7120		
Signature of Inspector	<u> </u>	Date	19	
		- Latin -		
f illicit discharge investigation is required, provide a time frame for	r investigation com	pletion:		
Document all steps utilized to eliminate the illicit discharge to inclu			ermittent discharges r	require
Document all steps utilized to eliminate the illicit discharge to inclu hree separate investigation with the appropriate documentation.	de date, time, and		ermittent discharges r	require
Document all steps utilized to eliminate the illicit discharge to inclu three separate investigation with the appropriate documentation. Upon illicit discharge elimination, re-inspect and certify the followi	de date, time, and ng:	actions. Inte		
If illicit discharge investigation is required, provide a time frame for Document all steps utilized to eliminate the illicit discharge to inclu three separate investigation with the appropriate documentation. Upon illicit discharge elimination, re-inspect and certify the followi "I certify that the illicit discharge has been eliminated, documented Signature of Inspector	de date, time, and ng:	actions. Inte		



Outfall ID # 5	Inspection Date: Inspector:	Photo #'s: 11 cm		
	73014 E. Gallaah			
	C. CARANDE	1		
	1 1 251 11	Pipe Material		
	End of Pipe Diameter: 1.25	Concrete		
Outfall	Circular	PVC		
Description	Elliptical	Steel		
Beschption				
	Box	Other:		
	Other:			
Date of Last, Rainfall	Quantity of Last Rainfall (in.) Estin	nated Discharge Rate		
712114	0.08			
Veather Information C				
ttp://www.wundergro	und.com/history/airport/KRIC/2014	Visual Observations		
	Outfall Submerged? Y / N	Flow Present ? (Y) N		
	If yes, (Circle):	Width of Water Surface 40 4		
	Water:	Approximate Depth of Water (ft.): 0.01		
	Fully	Approximate Flow Velocity (ft./s): 0.5		
	Partially	Approximate Flow Rate (cfs): 0.002		
	Sediment:			
		Flow Color/Clarity (Check all that apply);		
	Fully	Clear		
	Partially	Muddy		
Findings	Debris Around Outfall (Check all that apply):	Milky		
	None	Sheen		
	Sediment	Soapy Foam		
	Trash Other:			
	Other:	The Contract of Co		
	Debris in Pipe (Check all that apply):	Flow Odor (Check all that apply):		
	None	None		
	Sediment	Petroleum		
	Trash	Sewage		
	Other:	Other:		
		Floatables Y		
	Visual Observations (Circle)	Deposits/Stains Y/N		
	Describe			
	Vegetation Condition (Circle)	Excessive Inhibited		
	Describe			
	Pipe Condition (Circle)	Good Fair Poor		
	Fipe Condition (Circle)			
	Describe			

-	
6	SA
115	115.
16	21
ACT	A.

Structure Condition (Circle)	Good	Fair	Poor	
Describe				
Notable Biology (animals, insects, plants, etc.) Describe:				
Receiving Stream Name	Fleets	Bra	inch	
Notes/Necessary Action:	1. 1000			
Certification: If no action is required, certify the following: "I certify that the outfall inspection is complete and that no illicit	discharge is evident	at this time. 	- 14_	
If illicit discharge investigation is required, provide a time frame f	for investigation com	pletion:		
Document all steps utilized to eliminate the illicit discharge to inc three separate investigation with the appropriate documentation		actions. Int	ermittent disc	charges require
Upon illicit discharge elimination, re-inspect and certify the follow	wīng:			
"I certify that the illicit discharge has been eliminated, document	ed, and that no addit	ional action	is necessary a	at this time."
Signature of Inspector		Date		
Next inspection date:				



Capital Outlay Facilities PO Box 9044 Virginia State University, VA 23806 Phone: (804)524-3971 Fax: (804)524-5383

Virginia State University

Stormwater Outfall Inspection Form

Outfall ID # 🕖	Inspection Date: Inspector:	Photo #'s: 11110			
-	7130114 E.Gallagin				
	C. Chaushe				
	25111	Pipe Material			
	End of Pipe Diameter: 2.5	Concrete			
Outfall	Circular	PVC			
Description	Elliptical	Steel			
o as a reading the read	Box				
	Other:	Other:			
Date of Last Rainfall		Tables at a Direct surge Data			
	/ V	stimated Discharge Rate			
16119	0.08				
Weather Information C					
ittp://www.wundergro	ound.com/history/airport/KRIC/2014	Visual Observations			
	Outfall Submerged? (Y) N	Flow Present ? (Y) N			
	If yes, (Circle):	Width of Water Surface			
	Water:	Approximate Depth of Water (ft!): 0.			
	Fully	Approximate Flow Velocity (ft./s): 0.5			
		Approximate Flow Rate (cfs): 0.05			
	Sediment:	Flow Color/Clarity (Check all that apply):			
	Fully	Clear			
	Partially	Muddy			
Findings	Debris Around Outfall (Check all that apply				
	None	Sheen)			
	Sediment	Soapy Foap			
	Trash	Other:			
	Other:	• • • Other:			
	Debris in Pipe (Check all that apply):	Flow-Qdor (Check all that apply)			
	None	× (None)			
	Sediment	Petroleum Sewage			
	Trash				
	Other:	Other:			
		Floatables Y/D			
	Visual Observations (Circle)	Deposits/Stains Y/N)			
	Describe	NAILKY MOTERY MONTED OF MILE			
	Describe	Milky water, pooled at pipe			
	Vegetation Condition (Circle)	Excessive Inhibited			
	vegetation condition (circle)	Excessive			
	Describe				
	Pipe Condition (Circle)	Good Fair Poor			
	Describe				

		Vir	ginia State l	bital Outlay Fa PO Bo Jniversity, VA one: (804)524 Fax: (804)524
Structure Condition (Circle)	Good	Fair	Poor	
Describe				
Notable Biology (animals, insects, plants, etc.) Describe:				
Receiving Stream Name	Fleets	Bra	nch	
Notes/Necessary Action:	1 1 10000	10 1001	.011	
f no action is required, certify the following:	ischarge is evident	at this time. 73011 Date	4	
f no action is required, certify the following: I certify that the outfall inspection is complete and that no illicit d Carton E. Signature of Inspector	l	 Date	4	
f no action is required, certify the following: I certify that the outfall inspection is complete and that no illicit d Signature of Inspector f illicit discharge investigation is required, provide a time frame for Document all steps utilized to eliminate the illicit discharge to inclu	r investigation com	<u>730</u> Date	4	scharges requi
If no action is required, certify the following: I certify that the outfall inspection is complete and that no illicit d Signature of Inspector If illicit discharge investigation is required, provide a time frame for Document all steps utilized to eliminate the illicit discharge to inclu- three separate investigation with the appropriate documentation.	r investigation com	<u>730</u> Date	4	scharges requi
If no action is required, certify the following: "I certify that the outfall inspection is complete and that no illicit d Signature of Inspector If illicit discharge investigation is required, provide a time frame for Document all steps utilized to eliminate the illicit discharge to inclu- three separate investigation with the appropriate documentation. Upon illicit discharge elimination, re-inspect and certify the followi	r investigation com ude date, time, and ng:	73011 Date pletion: actions. Int	4	
	r investigation com ude date, time, and ng:	73011 Date pletion: actions. Int	4	

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Virginia State University

Stormwater Outfall Inspection Form

Outfall ID # 7	Inspection Date: Inspector:	Photo #'s: 453, 454, 455, 450		
	73014 E.Gallagher	- 453,454,455,45W		
	C. Chappell			
	End of Pipe Diameter: 0.5	Pipe Material		
		Concrete		
Outfall	Circular	PVC		
Description	Elliptical	Steel		
	Вох	Other: HDPP		
	Other:			
Date of Last Rainfall	Quantity of Last Rainfall (in.) Estim	ated Discharge Rate		
7/27/14	0.08			
Weather Information Ca	in Be Found @:			
http://www.wundergrou	und.com/history/airport/KRIC/2014	Visual Observations		
	Outfall Submerged? Y (N)	Flow Present ? Y / N'		
	If yes, (Circle):	Width of Water Surface		
	Water:	Approximate Depth of Water (ft.):		
	Fully	Approximate Flow Velocity (ft./s):		
	Partially	Approximate Flow Rate (cfs):		
	Sediment:	Flow Color/Clarity (Check all that apply):		
	Fully	Clear		
	Partially Debris Around Outfall (Check all that apply):	Muddy		
Findings	None	Milky		
	Sediment	Sheen Soapy Foam		
	Trash			
	Other:	Other:		
	Debris in Pipe (Check all that apply):	Flow Odor (Check all that apply):		
	None	None		
	Sediment	Petroleum		
	Trash	Sewage		
	Other: MUCh	Other:		
	Visual Observations (Circle)	Floatables Y/N Deposits/Stains Y/N		
		Deposits/stains (N)		
	Describe			
	Describe P	ipe full of mulch		
	V			
	Vegetation Condition (Circle)	Excessive Inhibited		
	Describe			
		\sim		
	Pipe Condition (Circle)	Good Fair Poor		
	Describe			

		Vir	ginia State Unive Phone:	Dutlay Facili PO Box 9 rsity, VA 23 (804)524-3 (804)524-5
Structure Condition (Circle)	Good	Fair	Poor	
Describe				
Notable Biology (animals, insects, plants, etc.) Describe:				
Receiving Stream Name	Fleets	Bran	cíp.	
Notes/Necessary Action:	1.100.00			
f no action is required, certify the following: 'I certify that the outfall inspection is complete and that no illicit d	ischarge is evident			
f no action is required, certify the following:	ischarge is evident	at this time. 		
f no action is required, certify the following: I certify that the outfall inspection is complete and that no illicit d EUNE Signature of Inspector	<u></u>	<u> </u>		
f no action is required, certify the following: I certify that the outfall inspection is complete and that no illicit d Signature of Inspector f illicit discharge investigation is required, provide a time frame fo Document all steps utilized to eliminate the illicit discharge to inclu	r investigation com	<u> 130</u> Date pletion:	14	ges require
f no action is required, certify the following: I certify that the outfall inspection is complete and that no illicit d Signature of Inspector f illicit discharge investigation is required, provide a time frame for Document all steps utilized to eliminate the illicit discharge to inclu- hree separate investigation with the appropriate documentation.	r investigation com	<u> 130</u> Date pletion:	14	ges require
f no action is required, certify the following: I certify that the outfall inspection is complete and that no illicit d Signature of Inspector f illicit discharge investigation is required, provide a time frame for Document all steps utilized to eliminate the illicit discharge to inclu- three separate investigation with the appropriate documentation. Jpon illicit discharge elimination, re-inspect and certify the following	r investigation com ude date, time, and	<u> </u>	ermittent dischar	
	r investigation com ude date, time, and	<u> </u>	ermittent dischar	



outfall ID #	Inspection Date: Inspector:	Photo #'s: 458, 459, 440, 441		
Ø	7/30/14 E Gallagher	458, 459, 400, 401		
	C. Charlebell	1 - 0 7		
	End of Pipe Diameter: 1.75	Pipe Material		
	End of Fipe Diameter.	Concrete		
Outfall	Circular	PVC		
Description	Elliptical	Steel		
	Box	Other:		
	Other:			
ate of Last Rainfall		ated Discharge Rate		
7 27 14	0.08			
Veather Information C				
ttp://www.wundergro	ound.com/history/airport/KRIC/2014	Visural Observations		
	Outfall Submerged? Y (N)	Flow Present ? (Y) N		
	If yes, (Circle):	Width of Water Surface 3		
	Water:	Approximate Depth of Water (ft.): ().03		
	Fully	Approximate Flow Velocity (ft./s): D. 25		
	Partially	Approximate Flow Rate (cfs): 0.00023		
	Sediment:	Flow Color/Clarity (Check all that apply):		
	Fully	Clear		
	Partially	Muddy		
Findings	Debris Around Outfall (Check all that apply):	Milky		
Findings	None	Sheen		
	Sediment	Soapy Foam		
	Trash			
	Other: LEAVESOther:			
	Debris in Pipe (Check all that apply):	Flow Odor (Check all that apply):		
	None	None		
	Sediment	Petroleum		
	Trash	Sewage		
	Other: Leaves venetation	Other:		
		Floatables Y/N		
	Visual Observations (Circle)	Deposits/Stains YN		
	Describe 🔘 🖓	diment in pipe		
	50	and in pipe		
	Vegetation Condition (Circle)	Excessive Inhibited		
	Describe			
	Describe			
	Pipe Condition (Circle)	Good) Fair Poor		
	Describe			

		Vir	Capital Out I ginia State Universit Phone: (80 Fax: (80	PO Box 9 :y, VA 23 04)524-3
Structure Condition (Circle)	Good	Fair	Poor	
Describe				
Notable Biology (animals, insects, plants, etc.) Describe:				
Receiving Stream Name	Fleets	Bhan	Ch	_
Notes/Necessary Action:	11.0000			
Certification: f no action is required, certify the following: I certify that the outfall inspection is complete and that no illicit d	ischarge is evident a	at this time.'		
Ein E. Sallagu		7 30		
Signature of Inspector		Date		
f illicit discharge investigation is required, provide a time frame fo	r investigation comp	oletion:		
Document all steps utilized to eliminate the illicit discharge to inclu hree separate investigation with the appropriate documentation.	ide date, time, and a	actions. Into	ermittent discharges	require
Jpon illicit discharge elimination, re-inspect and certify the follow	ng:			
'I certify that the illicit discharge has been eliminated, documented	d, and that no additi	ional action	is necessary at this t	ime."
Signature of Inspector		Date		
Next inspection date:		_		



Virginia State University

Stormwater	Outfall	Inspection	Form
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Outfall ID #	Inspection Date: Inspector:		Photo #'s:		11.5	
	730/14 E.Gallaa	nox	465	5,447	468	
	C. Cloube	ell		1 1		
	End of Pipe Diameter: 31		Pipe Material			
	End of Pipe Diameter:		Concrete			
Outfall	Circular		PVC			
Description	Elliptical		Steel			
	Box		Other:			
	Other:					
Date of Last Rainfall	Quantity of Last Rainfall (in.)	Estimated	Discharge Rate			
7/27/14	0.08					
Weather Information C						
	ound.com/history/airport/KRIC/2014			Visual Ob	servations	
http://www.wundergro	Outfall Submerged? Y N		Flow Present ?	YISUULOE	N	
	If yes, (Circle):		Width of Water Su		()	
		1000				
	Water:	1.10	Approximate Dept		2 m	
	Fully	1.1	Approximate Flow			
	Partially		Approximate Flow	Rate (cfs):		
	Sediment:		Flow Color/Clarity	(Check all that	apply):	
	Fully		Clear			
	Partially		Muddy			
Findings	Debris Around Outfall (Check all that apply):		Milky			
i inding5	None		Sheen			
	Sediment		Soapy Foam			
	Trash					
	Other:	Other:				
	Debris in Pipe (Check all that apply):	-	Flow Odor (Check a	Il that apply !-		
	None		None	in chuc uppiy).		
	Sediment		Petroleum		-	
	Trash		Sewage			
	Other:		Other:		- <u>-</u>	
	other		Floatables		VAN	
	Visual Observations (Circle)				- Children	
			Deposits/Stains		Y/N	
		lots	OF HOMEN	dout	Sting -	
	Describe	1005	of Thouse		stream	
			of ou	Ital		
	Vegetation Condition (Circle)		Excessive	In hi	bited	
	vegetation condition (circle)		Excessive	inni	biled	
	Describe					
		1	7			
	Pipe Condition (Circle)	Goo/Goo	d) Fair	Poor		
	Describe					

		Vir	ginia State L	ital Outlay Faciliti PO Box 90 Iniversity, VA 238 one: (804)524-39 Fax: (804)524-53
Structure Condition (Circle)	Good	Fair	Poor	
Describe				
Notable Biology (animals, insects, plants, etc.) Describe:				
Receiving Stream Name	Fletts	Bran	ch	
lotes/Necessary Action:				
ertification: f no action is required, certify the following:				
I certify that the outfall inspection is complete and that no illicit d		at this time.' 30 Date		
fillicit discharge investigation is required, provide a time frame fo	r investigation com	pletion:		
Document all steps utilized to eliminate the illicit discharge to inclu hree separate investigation with the appropriate documentation.	ude date, time, and	actions. Inte	ermittent dis	charges require
Jpon illicit discharge elimination, re-inspect and certify the followi	ng:			
I certify that the illicit discharge has been eliminated, documented	d, and that no addit	ional action	is necessary	at this time."
Signature of Inspector		Date		


Virginia State University

Outfall ID #	Inspection Date: Inspector:	Photo #'s:	11		
	730/14 E.Gallanner	410	,472		
	C. Chappel				
	End of Pipe Diameter: 2.5	Pipe Material			
	End of Pipe Diameter:	Concrete			
Outfall	🗙 Circular	PVC			
Description	Elliptical	Steel			
	Box	Other:			
	Other:				
Date of Last Rainfall		imated Discharge Rate			
712714	0.08				
Weather Information C	an Be Found @:				
	ound.com/history/airport/KRIC/2014		Visual Observations		
	Outfall Submerged? Y (N)	Flow Present ?	(Y) N		
	If yes, (Circle):	Width of Water Sur	face 521		
	Water:	Approximate Depth			
	Fully	Approximate Flow			
	Partially		Rate (cfs): 0.003		
	Sediment:				
		Clear)	Check all that apply):		
	Fully				
	Partially Debris Around Outfell (Check all that anothe)		Muddy		
Findings	Debris Around Outfall (Check all that apply):		Milky		
	(None) Sediment		Sheen		
	Trash	Soapy Foam			
	Other:	Other:	Other:		
	Debris in Pipe (Check all that apply):	Flow Odor (Check a	ll that apply)		
	None)	None			
	Sediment	Petroleum			
	Trash	Sewage			
	Other:	Other:			
		Floatables	Y/N		
	Visual Observations (Circle)	Deposits/Stains	Y/N)		
		Deposits/ stains	T(N)		
	Describe				
	Describe				
		1			
	Vegetation Condition (Circle)	Excessive Inhibit			
	Describe				
		0			
	Pipe Condition (Circle)	(Good) Fair	Poor		
	Describe				
	Describe				

		Vir	ginia State Univer Phone:	Outlay Facili PO Box 9 rsity, VA 23 (804)524-3 (804)524-5
Structure Condition (Circle)	Good	Fair	Poor	
Describe				
Notable Biology (animals, insects, plants, etc.) Describe:				
Receiving Stream Name	Fleets	Bran	Ch	
Notes/Necessary Action:	111000			
f no action is required, certify the following: I certify that the outfall inspection is complete and that no illicit di		at this time."		
f no action is required, certify the following: 'I certify that the outfall inspection is complete and that no illicit di				
f no action is required, certify the following: I certify that the outfall inspection is complete and that no illicit di Signature of Inspector	gur_			
f no action is required, certify the following: I certify that the outfall inspection is complete and that no illicit di EXAMPLE Signature of Inspector f illicit discharge investigation is required, provide a time frame for Document all steps utilized to eliminate the illicit discharge to inclu	investigation com	 Date pletion:	14	ges require
f no action is required, certify the following: I certify that the outfall inspection is complete and that no illicit di EXAMPLE: Signature of Inspector f illicit discharge investigation is required, provide a time frame for Document all steps utilized to eliminate the illicit discharge to inclu hree separate investigation with the appropriate documentation.	investigation com	 Date pletion:	14	ges require
f no action is required, certify the following: I certify that the outfall inspection is complete and that no illicit di Signature of Inspector f illicit discharge investigation is required, provide a time frame for Document all steps utilized to eliminate the illicit discharge to inclu three separate investigation with the appropriate documentation. Jpon illicit discharge elimination, re-inspect and certify the following	r investigation com de date, time, and ng:	 Date pletion: actions. Inte	44ermittent discharg	
- ELM E. Mult	r investigation com de date, time, and ng:	 Date pletion: actions. Inte	44ermittent discharg	



Outfall ID #	Inspection, Date: Inspector:	Photo #'s: 11-11	11-7-0		
	730/14 E Gallaghi	414	,475		
	C. Chicajope	41			
	2 . 1	Pipe Material			
	End of Pipe Diameter: <u>30</u>	Concrete			
Outfall	Circular	PVC			
Description					
e eeu ip ii eii	Box	Other:			
	Other:	Other.			
Date of Last Rainfall		imated Discharge Rate			
		imated Discharge Rate			
Weather Information C	0.08				
	-				
ittp://www.wundergro	ound.com/history/airport/KRIC/2014		Visual Observations		
	Outfall Submerged? (Y) N	Flow Present ?	(Y) N		
	If yes, (Circle):	Width of Water Surf			
	Water:	Approximate Depth	of Water (ft.): 0.35		
	Fully	Approximate Flow V	elocity (ft./s):		
	(artially) bareny	Approximate Flow R	ate (cfs): Stagnan		
	Sediment:		Check all that apply)		
	Fully	Clear	and an anat appropriate		
	Rartially	Muddy			
	Debris Around Outfall (Check all that apply):	Milky			
Findings		× Sheen)			
	None Sediment				
	Trash	Soapy Foam			
		Other:			
	Other:				
	Debris in Pipe (Check all that apply):	Flow Odor (Check al	I that apply):		
	None	X (None)	and the second se		
	Sediment	Petroleum			
	Trash	Sewage			
	Other:	Other:			
	Visual Observations (Circle)	Floatables	Y(N)		
	visual observations (circle)	Deposits/Stains	(YNN		
	Describe	Stading into A	Mddy water		
		3000000	many water		
	Vegetation Condition (Circle)	Excessive	Inhibited		
	Describe				
	Pipe Condition (Circle)	Good Fair	Poor		
		~			
	Describe				
	Describe				

		Vir	Capital Ou ginia State Universi Phone: (8 Fax: (8	PO Box 9 ity, VA 23
Structure Condition (Circle)	Good	Fair	Poor	
Describe				
Notable Biology (animals, insects, plants, etc.) Describe:				
Receiving Stream Name	Fleets	Brau	hCh	
lotes/Necessary Action:				
Certification:				_
f no action is required, certify the following:				
I certify that the outfall inspection is complete and that no illicit dis		at this time. 		
f illicit discharge investigation is required, provide a time frame for	investigation com	pletion:		
Document all steps utilized to eliminate the illicit discharge to inclue hree separate investigation with the appropriate documentation.	de date, time, and	actions. Into	ermittent discharge	s require
Jpon illicit discharge elimination, re-inspect and certify the followir	ng:			
'I certify that the illicit discharge has been eliminated, documented	, and that no addit	ional action	is necessary at this	time."
Signature of Inspector		Date		
Next inspection date:				



Outfall ID # 12	Inspection, Date: Inspector:	Photo #'s: 1100 1101		
1.0	7 30/14 E Ballaque	$\frac{1}{12}$ Photo #'s: 480, 481		
	C. Chaussel			
		Pipe Material		
	End of Pipe Diameter: 2.0	Concrete		
Outfall	Circular	PVC		
Description	Elliptical	Steel		
	Box	Other:		
	Other:			
ate of Last Rainfall		mated Discharge Rate		
7127114	0.08			
/eather Information C				
	ound.com/history/airport/KRIC/2014	Visual Observations		
-p.,, in the terrain and Bre	Outfall Submerged? Y (N)	Flow Present ? Y		
	If yes, (Circle):	Width of Water Surface		
	Water:	Approximate Depth of Water (ft.):		
	Fully	Approximate Flow Velocity (ft./s):		
	Partially	Approximate Flow Rate (cfs):		
Findings	Sediment:	Flow Color/Clarity (Check all that apply):		
	Fully	Clear		
	Partially	Muddy		
	Debris Around Outfall (Check all that apply):	Milky		
-	None	Sheen		
	Sediment	Soapy Foam		
	Trash	Other:		
	Other:	other		
	Debris in Pipe (Check all that apply):	Flow Odor (Check all that apply):		
	None	None		
	Sediment	Petroleum		
	Trash	Sewage		
	Other:	Other:		
	Viewal Observations (Circle)	Floatables Y(N)		
	Visual Observations (Circle)	Deposits/Stains Y/N)		
	Describe	A VIA		
		AND		
	Vegetation Condition (Circle)	Excessive Inhibited		
	Describe			
	Describe			
	Pipe Condition (Circle)	Good Fair Poor		
	Describe			

	1	ATET	
1	Re		2
6	AL.	لا مد	日
l	12		
. 3	110	11	1

Structure Condition (Circle)	Good	Fair	Poor	
Describe				
Notable Biology (animals, insects, plants, etc.) Describe:				
Receiving Stream Name	Fleets	Bra	hch	
Notes/Necessary Action:				
Certification: If no action is required, certify the following: "I certify that the outfall inspection is complete and that no illicit CLUM C. Signature of Inspector	t discharge is evident a	at this time. 	114	
If illicit discharge investigation is required, provide a time frame	for investigation com	pletion:		
Document all steps utilized to eliminate the illicit discharge to in three separate investigation with the appropriate documentatio		actions. Int	ermittent disch	arges require
Upon illicit discharge elimination, re-inspect and certify the follo	owing:			
"I certify that the illicit discharge has been eliminated, documen	ted, and that no addit	ional action	is necessary at	this time."
Signature of Inspector		Date		
Next inspection date:				



Outfall ID # 13	Inspection Date: Inspector:	Photo #'s: 11010 110-1		
	730/14 EGallagher	-Photo #s: 490,497		
	C Chappell			
	End of Pipe Diameter: 1.31	Pipe Material		
Outfall	Circular	PVC		
Description	Elliptical	Steel		
	Вох	Other:		
	Other:			
ate of Last Rainfall	Quantity of Last Rainfall (in.) Estima	ated Discharge Rate		
7127114	0.02			
Veather Information Ca	an Be Found @:			
ttp://www.wundergro	ound.com/history/airport/KRIC/2014	Visual Observations		
	Outfall Submerged? Y (N)	Flow Present ? Y N		
	If yes, (Circle):	Width of Water Surface		
	Water:	Approximate Depth of Water (ft.):		
	Fully	Approximate Flow Velocity (ft./s):		
	Partially	Approximate Flow Rate (cfs):		
	Sediment:	Flow Color/Clarity (Check all that apply):		
	Fully	Clear		
Findings	Partially	Muddy		
	Debris Around Outfall (Check all that apply):	Milky		
	None	Sheen		
	Sediment	Soapy Foam		
	Trash			
	Other: Vegetation	Other:		
	Debris in Pipe (Check all that apply):	Flow Odor (Check all that apply):		
	None	< None		
	Sediment	Petroleum		
	Trash	Sewage		
	Other:	Other:		
	ouncit	Floatables Y/N		
	Visual Observations (Circle)			
		Deposits/Stains Y/N		
	Describe	0		
	Describe			
	Vegetation Condition (Circle)	Excessive Inhibited		
		- Endessing		
	Describe			
		0		
		Cond (Con)		
	Pipe Condition (Circle)	Good Fair Poor		
	Describe St	me chanks at end		
	Pipe Condition (Circle)	Good (Fair) Poor Me Challeks at end		

		Virį	ginia State	pital Outlay F PO B University, V hone: (804)5 Fax: (804)5
Structure Condition (Circle)	Good	Fair	Poor	
Describe		0		
Notable Biology (animals, insects, plants, etc.) Describe:				
Receiving Stream Name	Cobolet	20120xac	160%	
Notes/Necessary Action:	ABDON	attax	Riv	W
no action is required, certify the following:	t discharge is evider	nt at this time."	14	
f no action is required, certify the following: I certify that the outfall inspection is complete and that no illici <u>CUMP</u> Signature of Inspector		Date	14	
f no action is required, certify the following: I certify that the outfall inspection is complete and that no illici Grant Control Con	for investigation conclude date, time, an	Date		ischarges requ
f no action is required, certify the following: I certify that the outfall inspection is complete and that no illici CUAL COMPANY Signature of Inspector f illicit discharge investigation is required, provide a time frame Document all steps utilized to eliminate the illicit discharge to in hree separate investigation with the appropriate documentation	for investigation conclude date, time, an	Date		ischarges requ
f no action is required, certify the following: I certify that the outfall inspection is complete and that no illici Signature of Inspector f illicit discharge investigation is required, provide a time frame Document all steps utilized to eliminate the illicit discharge to ir hree separate investigation with the appropriate documentatic Jpon illicit discharge elimination, re-inspect and certify the follo	for investigation conclude date, time, an on. owing:	Date	rmittent d	
Certification: If no action is required, certify the following: "I certify that the outfall inspection is complete and that no illici "I certify that the outfall inspection is complete and that no illici Signature of Inspector If illicit discharge investigation is required, provide a time frame Document all steps utilized to eliminate the illicit discharge to in three separate investigation with the appropriate documentatic Upon illicit discharge elimination, re-inspect and certify the folloc "I certify that the illicit discharge has been eliminated, documentatic Signature of Inspector	for investigation conclude date, time, an on. owing:	Date	rmittent d	



utfall ID # 14	Inspection Date: Inspector:	Photo #'s:	
	73014 E.Gallow		
	C. Chappe	1	
	Ford of Diag Diagrams 1 21. 9	Pipe Material	
	End of Pipe Diameter:	Concrete	
Outfall	Circular	PVC	
Description	Elliptical	Steel	
	Box	Other:	
	Other:	Outer	
te of Last Rainfall		timated Discharge Rate	
127/11			
eather Information C			
	bund.com/history/airport/KRIC/2014	Visual Observations	
tp://www.wundergro	Outfall Submerged? Y (N)	Flow Present ? Y N	
	/		
	If yes, (Circle):	Width of Water Surface	
	Water:	Approximate Depth of Water (ft.):	
	Fully	Approximate Flow Velocity (ft./s):	
	Partially	Approximate Flow Rate (cfs):	
Fig. dia an	Sediment:	Flow Color/Clarity (Check all that apply):	
	Fully	Clear	
	Partially	Muddy	
	Debris Around Outfall (Check all that apply):		
Findings	None	Sheen	
	Sediment	Soapy Foam	
	Trash	Soapyroan	
	Other:	Other:	
	Debris in Pipe (Check all that apply):	Flow Odor (Check all that apply):	
	None	None	
	Sediment	Petroleum	
	Trash	Sewage	
	Other:	Other:	
	Visual Observations (Circle)	Floatables Y/N	
		Deposits/Stains (Y)N	
	Describe	sediment in pipe	
		same in The	
	Manatation Condition (Cinda)	Formation and the second	
	Vegetation Condition (Circle)	Excessive Inhibited	
	Describe		
	Describe		
	Describe Pipe Condition (Circle)	Good Fair Poor	
		Good Fair Poor	
		Good Fair Poor	
		Good Fair Poor	

Virginia State Universi Phone: (8				PO Box 9
Structure Condition (Circle)	Good	Fair	Poor	
Describe				
Notable Biology (animals, insects, plants, etc.) Describe:				
Receiving Stream Name	App	omath	ox Rive	N
lotes/Necessary Action:	1			
Certification:				
f no action is required, certify the following:				
'l certify that the outfall inspection is complete and that no illicit disc FIND & Mallada U			14	
Signature of Inspector		Date		
f illicit discharge investigation is required, provide a time frame for i	nvestigation com	pletion:		
Document all steps utilized to eliminate the illicit discharge to includ hree separate investigation with the appropriate documentation.	e date, time, and	actions. Inte	ermittent dischar	ges require
Jpon illicit discharge elimination, re-inspect and certify the following	3:			
'I certify that the illicit discharge has been eliminated, documented,	and that no addit	ional action	is necessary at th	is time."
Signature of Inspector		Date	_	
Next inspection date:				



Virginia State University

Outfall ID # 5	Inspection Date: Inspector:	Photo #'s:	a upil	
1.00	73014 E.Gallan	ur 40	3,494	
	C Chalobe	1		
	End of Directory 201	Pipe Material		
	End of Pipe Diameter: 2.0	Concrete		
Outfall	Circular	PVC		
Description	Elliptical	Steel		
	Box	Other: HDP	E	
	Other:	Other		
ate of Last Rainfall		Estimated Discharge Rate	1	
1 20 III		Estimated Discharge Rate	4	
Veather Information			-	
tp://www.wundergr	ound.com/history/airport/KRIC/2014	feet a	Visual Observations	
	Outfall Submerged? Y (N)	Flow Present ?	Y (N)	
	If yes, (Circle):	Width of Water Su		
	Water:	Approximate Dept	th of Water (ft.):	
	Fully	Approximate Flow	Velocity (ft./s):	
	Partially	Approximate Flow		
	Sediment:		(Check all that apply):	
			(check an that apply).	
	Fully	Clear		
	Partially	Muddy		
Findings	Debris Around Outfall (Check all that apply			
	None	Sheen		
	Sediment	Soapy Foam	Soapy Foam	
	Trash Other:			
	Other:			
	Debris in Pipe (Check all that apply):	Flow Odor (Check	all that apply):	
	None	X None		
	Sediment	Petroleum	1.1	
	Trash	Sewage		
	Other:	Other:		
		Floatables	Y/(N)	
	Visual Observations (Circle)	Deposits/Stains	Y/N	
		Deposito, Stanio		
	Describe		0	
	Describe			
			1	
	Vegetation Condition (Circle)	Excessive	Inhibited	
	Describe			
		\cap		
	Pipe Condition (Circle)	(The second sec	Dava	
	Pipe Condition (Circle)	Good Fair	Poor	
	Describe			

(and	Vir	Capital Outlay PO ginia State University, \ Phone: (804)! Fax: (804)!
Good	Fair	Poor
Appom	attox t	Zilver
e is evident	at this time." 30 Date	1
	pletion:	
igation corr	actions. Inte	rmittent discharges req
e, time, and		s necessary at this time
e, time, and		s necessary at this time
e, time		additional action i



Virginia State University

utfall ID #	Inspection Date: Inspector:	Photo #'s:	a ilabilat	1
	7 30/14 E Gallag	48	9,490,491	
	C. Chamble	11		
	End of Pipe Diameter:	Pipe Material		
	End of Pipe Diameter:	Concrete		-
Outfall		PVC		1
Description	Elliptical	Steel		1
	Box	Other:		-
	Other:			
ate of Last Rainfall	Quantity of Last Rainfall (in.) Es	timated Discharge Rate		1
712714	0.08			
eather Information C				
tp://www.wundergro	ound.com/history/airport/KRIC/2014		Visual Observations	
	Outfall Submerged? Y N	Flow Present ?	(Y) N	1
	If yes, (Circle):	Width of Water Su	rface 6 com 100	har ca
	Water:	Approximate Dept	rface h of Water (ft.): NOT W Velocity (ft./s):	yasura
	Fully	Approximate Flow	Velocity (ft./s):	I thick !!
	Partially	Approximate Flow		U. I.V. It
	Sediment:		(Check all that apply):	4
	Eully a A		(check an that apply).	
	Partially fully of Vege	total Glear		
	Debris Around Outfall (Check all that apply):			
Findings	None	Sheen		
	Sediment	Soapy Foam		
	Trash	Suapyroan		
	Other:	Other:		
	Debris in Pipe (Check all that apply):	Flow Odor (Check a	all that apply):	-
	None	None		1
	Sediment	Petroleum		-
	Trash	Sewage		-
	Other: Vealtation	Other:		-
		Floatables	YN	-
	Visual Observations (Circle)	Deposits/Stains	Y/N	-
		beposito, stanio		
	Describe			
	Beschbe			
		(-)	0	-
	Vegetation Condition (Circle)	Excessive	(Inhibited)	1
				-
	Describe			
	Describe			
		<u> </u>	r I	-
	Pipe Condition (Circle)	Bood Fair	Poor	
				-
	Describe			

	Vir	Capital Outlay PO ginia State University, \ Phone: (804)5 Fax: (804)5	Box VA 2 524-:	
Structure Condition (Circle)	Good	Fair	Poor	
Describe				
Notable Biology (animals, insects, plants, etc.) Describe:				
Receiving Stream Name	Abbo	Natto	k River	
Notes/Necessary Action:	1 - ippo	vicitio,		
f no action is required, certify the following:	charge is evident	at this time." 	14	
f no action is required, certify the following: I certify that the outfall inspection is complete and that no illicit dis <u>Carine E. Stallegult</u> Signature of Inspector		 Date	14	
f no action is required, certify the following: I certify that the outfall inspection is complete and that no illicit dis <u>Control E. Standard</u> Signature of Inspector f illicit discharge investigation is required, provide a time frame for i Document all steps utilized to eliminate the illicit discharge to includ	investigation com	Date	14	Juire
f no action is required, certify the following: I certify that the outfall inspection is complete and that no illicit dis EXAMPLE Signature of Inspector f illicit discharge investigation is required, provide a time frame for in Document all steps utilized to eliminate the illicit discharge to include hree separate investigation with the appropriate documentation.	investigation com	Date	14	Juire
f no action is required, certify the following: I certify that the outfall inspection is complete and that no illicit dis EXAMPLE Signature of Inspector f illicit discharge investigation is required, provide a time frame for in Document all steps utilized to eliminate the illicit discharge to include hree separate investigation with the appropriate documentation. Jpon illicit discharge elimination, re-inspect and certify the following	investigation com le date, time, and g:	 Date pletion: actions. Inte	1나 rmittent discharges req	
Signature of Inspector f illicit discharge investigation is required, provide a time frame for in Document all steps utilized to eliminate the illicit discharge to includ three separate investigation with the appropriate documentation. Jpon illicit discharge elimination, re-inspect and certify the following I certify that the illicit discharge has been eliminated, documented,	investigation com le date, time, and g:	Date pletion: actions. Inte ional action i	1나 rmittent discharges req	
f no action is required, certify the following: 'I certify that the outfall inspection is complete and that no illicit dis EXAMPLE Signature of Inspector f illicit discharge investigation is required, provide a time frame for in Document all steps utilized to eliminate the illicit discharge to include three separate investigation with the appropriate documentation. Jpon illicit discharge elimination, re-inspect and certify the following	investigation com le date, time, and g:	 Date pletion: actions. Inte	1나 rmittent discharges req	



Dutfall ID # 11	Inspection Date: Inspector:	Photo #'s: 110	0
	13014 E. Gallagi	NEN TS	8
	C. Charley		
	End of Pipe Diameter: 0.81	Pipe Material	
	End of Pipe Diameter: 0.0	Concrete	
Outfall	Circular	PVC	
Description	Elliptical	Steel	
	Box	Other:	
	Other:		
ate of Last Rainfall	Quantity of Last Rainfall (in.)	stimated Discharge Rate	
712714	0.08		
eather Information Ca	an Be Found @:		
tp://www.wundergro	ound.com/history/airport/KRIC/2014		Visual Observations
	Outfall Submerged? Y (N)	Flow Present ?	Y (N')
	If yes, (Circle):	Width of Water Sur	face
	Water:	Approximate Depth	of Water (ft.):
	Fully	Approximate Flow	
	Partially	Approximate Flow I	
	Sediment:		Check all that apply):
	Fully	Clear	
	Partially	Muddy	
Findings	Debris Around Outfall (Check all that apply		
	None	Sheen	
	Sediment	Soapy Foam	
	Trash	Other:	
	Other:		
	Debris in Pipe (Check all that apply):	Flow Odor (Check a	II that apply):
	None	None	
	Sediment	Petroleum	
	Trash	Sewage	
	Other:	Other:	
	Visual Observations (Circle)	Floatables	YN
		Deposits/Stains	Y/N)
	Describe	2 pipes @ St	nictures
		- 1103000	
	Vegetation Condition (Circle)	Fuenceius	المرام (المراجع
	Vegetation Condition (Circle)	Excessive	Inhibited
		4	
	Describe		
		$\langle \rangle$	
	Pipe Condition (Circle)	(Good) Fair	Poor
	Describe		

Capital Ou Virginia State Universi Phone: (8 Fax: (8				
Structure Condition (Circle)	Good	Fair	Poor	
Describe				
Notable Biology (animals, insects, plants, etc.) Describe:				
Receiving Stream Name	Abinon	Attin	River	
lotes/Necessary Action:	TTPDU	witter		
Certification:				
f no action is required, certify the following:				
I certify that the outfall inspection is complete and that no illicit dis		130		
Signature of Inspector		Date		
illicit discharge investigation is required, provide a time frame for	investigation comp	oletion:		
ocument all steps utilized to eliminate the illicit discharge to includ hree separate investigation with the appropriate documentation.	de date, time, and a	actions, Inte	ermittent discharges require	
pon illicit discharge elimination, re-inspect and certify the followin	eg:			
I certify that the illicit discharge has been eliminated, documented,	, and that no additi	onal action	is necessary at this time."	
Signature of Inspector		Date		
lext inspection date:				



Virginia State University

fall 1D # \8	Inspection Date: Inspector:	Photo #'s:
	73014 E Gallaure	V 485,480
	C Chappel	
	End of Pipe Diameter: 1.0	Pipe Material
		Concrete
Outfall	Circular	PVC
Description	Elliptical	Steel
	Вох	Other:
	Other:	
e of Last Rainfall	Quantity of Last Rainfall (in.) Estin	nated Discharge Rate
7 27 14	0.08	
ather Information Can B		
://www.wunderground	d.com/history/airport/KRIC/2014	Visual Observations
	Outfall Submerged? Y N	Flow Present ? 🕥 N
	If yes, (Circle):	Width of Water Surface 0.7
	Water:	Approximate Depth of Water (ft.): 0.02
	Fully	Approximate Flow Velocity (ft./s):
	Partially	Approximate Flow Rate (cfs): 0.004
	Sediment:	Flow Color/Clarity (Check all that apply):
		clear)
	Fully	Muddy
	Partially	
Findings	Debris Around Outfall (Check all that apply):	Milky
	None	Sheen
	Sediment	Soapy Foam
	Trash	Other:
	Other:	Elever Orden (Charals all that some bi)
	Debris in Pipe (Check all that apply):	Elow Odor (Check all that apply):
	None Sediment	
		Petroleum
	Trash	Sewage
	Other:	Other:
	Visual Observations (Circle)	Floatables (Y)N
		Deposits/Stains (Y)N
	Describe p	ipe full of sediment
	Vegetation Condition (Circle)	Excessive Inhibited
	Describe	
	Pipe Condition (Circle)	Fair Poor
	Describe	
-	Pipe Condition (Circle)	Fair Poor

		`	/irgi		e Universit Phone: (80 Fax: (80	4)524
Structure Condition (Circle)	Good	Fair		Poor)	
Describe				<u> </u>		
Notable Biology (animals, insects, plants, etc.) Describe:						
Receiving Stream Name	Appo	Matt	DV.	Ri	VPr	-
Notes/Necessary Action:	1.1900	IV WITH			VUI	
f no action is required, certify the following:	licebargo is ovident	at this tim				
f no action is required, certify the following:	lischarge is evident	at this time		4		
f no action is required, certify the following:	lischarge is evident			4		
f no action is required, certify the following: I certify that the outfall inspection is complete and that no illicit d <u>Com E. Madagetter</u> Signature of Inspector				4		
f no action is required, certify the following: I certify that the outfall inspection is complete and that no illicit d <u>Signature of Inspector</u> Fillicit discharge investigation is required, provide a time frame fo pocument all steps utilized to eliminate the illicit discharge to inclu	r investigation com ude date, time, and	 Date	<u>ф</u>	7	discharges	require
f no action is required, certify the following: I certify that the outfall inspection is complete and that no illicit d <u><u><u></u></u> Signature of Inspector Fillicit discharge investigation is required, provide a time frame fo Document all steps utilized to eliminate the illicit discharge to inclu- hree separate investigation with the appropriate documentation.</u>	r investigation com ude date, time, and	 Date	<u>ф</u>	7	discharges	require
f no action is required, certify the following: I certify that the outfall inspection is complete and that no illicit d <u>Gum E. July July</u> Signature of Inspector f illicit discharge investigation is required, provide a time frame fo Document all steps utilized to eliminate the illicit discharge to inclu hree separate investigation with the appropriate documentation.	or investigation com ude date, time, and ing:	 Date apletion: actions. In	nterr	7		
()	or investigation com ude date, time, and ing:	 Date apletion: actions. In	nterr	7		



Outfall ID # 9	Inspection Date: Inspector:	Photo #'s:
* 1	73014 E.Gallashe	N 483
	C. Chalorel	
	End of Pipe Diameter:	Pipe Material
		Concrete
Outfall	Circular	PVC
Description	Elliptical	Steel
	Box	Other:
	Other:	
Date of Last Rainfall	Quantity of Last Rainfall (in.) Estim	nated Discharge Rate
12114	0.08	
Neather Information C	-	
ittp://www.wundergro	ound.com/history/airport/KRIC/2014	Visual Observations
	Outfall Submerged? (Y) N	Flow Present ? Y (N)
	If yes, (Circle):	Width of Water Surface
	Water:	Approximate Depth of Water (ft.):
	Fully	Approximate Flow Velocity (ft./s):
	Partially	Approximate Flow Rate (cfs)
	Sediment:	Flow Color/Clarity (Check all that apply):
	Fully	Clear
	(Partially)	Muddy
Findings	Debris Around Outfall (Check all that apply):	Milky
Findings	None	Sheen
	Sediment	Soapy Foam
	Trash	
	Other:	Other:
	Debris in Pipe (Check all that apply):	Flow Odor (Check all that apply):
	None	None
	Sediment	< Petroleum
	Trash	Sewage
	Other:	Other:
		Floatables Y/N
	Visual Observations (Circle)	Deposits/Stains Y(N)
	Describe	V
	Vegetation Condition (Circle)	Excessive Inhibited
	Describe	
	Pipe Condition (Circle)	Good Fair Poor
	Describe	

		Vii	Capital Outlay Faci PO Box rginia State University, VA 2 Phone: (804)524- Fax: (804)524-
Structure Condition (Circle)	Good	Fair	Poor
Describe			
Notable Biology (animals, insects, plants, etc.) Describe:			
Receiving Stream Name	Appon	attox	River
Notes/Necessary Action:			
f no action is required, certify the following:	ischarge is evident	at this time. 	
f no action is required, certify the following: I certify that the outfall inspection is complete and that no illicit d EINE. HAUALAN Signature of Inspector	$\mathcal{U}_{}$	 Date	
f no action is required, certify the following: I certify that the outfall inspection is complete and that no illicit d <u>EXAME</u> . Signature of Inspector f illicit discharge investigation is required, provide a time frame fo Document all steps utilized to eliminate the illicit discharge to inclu	r investigation com	 Date	<u> 14_</u>
f no action is required, certify the following: I certify that the outfall inspection is complete and that no illicit d <u>Eme E. Hulder</u> Signature of Inspector f illicit discharge investigation is required, provide a time frame fo Document all steps utilized to eliminate the illicit discharge to inclu- hree separate investigation with the appropriate documentation.	r investigation com	 Date	<u> 14_</u>
f no action is required, certify the following: 'I certify that the outfall inspection is complete and that no illicit d <u>Eim E.</u> Signature of Inspector f illicit discharge investigation is required, provide a time frame fo Document all steps utilized to eliminate the illicit discharge to inclu- three separate investigation with the appropriate documentation. Upon illicit discharge elimination, re-inspect and certify the following	r investigation com ide date, time, and	Date Date actions. Int	ermittent discharges require
	r investigation com ide date, time, and	Date Date actions. Int	ermittent discharges require



outfall ID # 20	Inspection Date: Inspector:	Photo #'s:		
e V.	-130114 E. Gallau	INPK		
	C. Char			
	Find of Dise Diserton	1 Pipe Material		
	End of Pipe Diameter:	Concrete		
Outfall	Circular	PVC		
Description	Elliptical	Steel		
	Вох	Other:		
	Other:			
ate of Last Rainfall	Quantity of Last Rainfall (in.)	Estimated Discharge Rate		
7127114	0.08			
leather Information Ca	n Be Found @:	-1		
tp://www.wundergrou	und.com/history/airport/KRIC/2014		Visual Observations	
	Outfall Submerged? Y (N	Flow Present ?	Y (N)	
	If yes, (Circle):	Width of Water S	Surface	
	Water:	Approximate Dep	oth of Water (ft.):	
	Fully		w Velocity (ft./s):	
	Partially	Approximate Flor		
	Sediment:			
		Flow Color/Clarity (Check all t		
	Fully	Clear		
	Partially Debute Answer of Outfoll (Check all that an	Muddy		
Findings	Debris Around Outfall (Check all that ap	ply): Milky Sheen		
	(None) Sediment			
	A STORES	Soapy Foam		
	Trash	Other:		
	Other:		0.40 · · · · · · · · · · · · · · · · · · ·	
	Debris in Pipe (Check all that apply):	Flow Odor (Check	call that apply):	
	None	None		
	Sediment	Petroleum		
	Trash	Sewage		
	Other:	Other:		
	Visual Observations (Circle	Floatables	YKN	
		Deposits/Stains	Y(N)	
	Describ	e		
	Vegetation Condition (Circle	e) Excessive	Inhibited	
	Describ	e		
	Pipe Condition (Circle	e) (Good) Fair	Poor	
	Describ	e		

	\bigcirc	Vir	Capital Outlay Facil PO Box 9 ginia State University, VA 23 Phone: (804)524-3 Fax: (804)524-5
Structure Condition (Circle)	Good	Fair	Poor
Describe			
Notable Biology (animals, insects, plants, etc.) Describe:			
Receiving Stream Name	Appon	rattox	River
Notes/Necessary Action:	1 11		
Certification: If no action is required, certify the following:			
'I certify that the outfall inspection is complete and that no illicit dis <u>EME</u> . <u>UIIIII</u> Signature of Inspector	scharge is evident a	at this time." 730 Date	114
f illicit discharge investigation is required, provide a time frame for			
······································	investigation comp	oletion:	
Document all steps utilized to eliminate the illicit discharge to inclu			rmittent discharges require
Document all steps utilized to eliminate the illicit discharge to inclue hree separate investigation with the appropriate documentation.	de date, time, and a		rmittent discharges require
Document all steps utilized to eliminate the illicit discharge to inclue hree separate investigation with the appropriate documentation. Jpon illicit discharge elimination, re-inspect and certify the followir	de date, time, and a	actions. Inte	
Document all steps utilized to eliminate the illicit discharge to inclus three separate investigation with the appropriate documentation. Upon illicit discharge elimination, re-inspect and certify the followir 'I certify that the illicit discharge has been eliminated, documented Gignature of Inspector	de date, time, and a	actions. Inte	
Document all steps utilized to eliminate the illicit discharge to inclue three separate investigation with the appropriate documentation. Upon illicit discharge elimination, re-inspect and certify the followir 'I certify that the illicit discharge has been eliminated, documented	de date, time, and a	actions. Inte	



Virginia State University

Outfall ID # 21	Inspection Date: Inspector:	Photo #'s: 509	511	
	1-7130/14 E. Gallag	Dell -01	1211	
	End of Pipe Diameter: 1.5	Pipe Material		
Outfall	Circular	PVC		
Description	Elliptical	Steel		
	Box	Other:		
	Other:			
Date of Last Rainfall		timated Discharge Rate		
7/27/14	0.08			
Weather Information C	an Be Found @:			
http://www.wundergro	ound.com/history/airport/KRIC/2014		Visual Observations	
	Outfall Submerged? Y	Flow Present ?	(Y) N	
	If yes, (Circle): Water: Fully Partially	Width of Water Sur Approximate Depth Approximate Flow V Approximate Flow F	of Water (ft.): /elocity (ft./s): Rate (cfs):	
	Sediment: Fully Partially	(lear) Muddy	Check all that apply):	
Findings	Debris Around Outfall (Check all that apply): None Sediment Trash Other:	Milky Sheen Soapy Foam Other:		
	Debris in Pipe (Check all that apply): None Sediment Trash	Flow Odor (Check a None Petroleum Sewage	II that apply):	
	Other:	Other:	YAN	
	Visual Observations (Circle)	Floatables		
	Describe	Deposits/Stains	Y	
	Vegetation Condition (Circle)	Excessive	Inhibited	
	Describe			
	Pipe Condition (Circle)	Good Fair	Poor	
	Describe			

16	TATE	~
1	14 3	14
Ē	مي علي	38
E	0=	91
	States 1	

	~		R	
Structure Condition (Circle)	Good	Fair	Poor	
Describe				
Notable Biology (animals, insects, plants, etc.) Describe:				
Receiving Stream Name	Appon	nattor	River	
Notes/Necessary Action:				
f no action is required, certify the following: 'I certify that the outfall inspection is complete and that no illicit	: discharge is evident	at this time.	14	
Signature of Inspector		Date		
If illicit discharge investigation is required, provide a time frame	for investigation com	pletion:		
Document all steps utilized to eliminate the illicit discharge to ind three separate investigation with the appropriate documentation		actions. Int	ermittent discha	arges require
Upon illicit discharge elimination, re-inspect and certify the follow	wing:			
"I certify that the illicit discharge has been eliminated, document	ted, and that no addit	tional action	is necessary at 1	this time."
Signature of Inspector		Date		
Next inspection date:				



Virginia State University

Stormwater	Outfall	Inspection	Form
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utfall ID # 772	Inspection Date: Inspector:	Photo #'s:	-
	73014 E End QUAN		507, 508
	C. Christope		
		Pipe Material	
	End of Pipe Diameter: 15	- Concrete	
Outfall	Circular	PVC	
Description	Elliptical	Steel	
Description	Box		
		Other:	
	Other:		
ate of Last Rainfall		stimated Discharge Rate	
712114	0.08		
leather Information C			
ttp://www.wundergro	und.com/history/airport/KRIC/2014		ual Observations
	Outfall Submerged? Y	Flow Present ?	N N
	If yes, (Circle):	Width of Water Surface (7.5 000
	Water:	Approximate Depth of Wai	er (ft.):
	Fully	Approximate Flow Velocity	(ft./s): 2
	Partially	Approximate Flow Rate (cf	
	Sediment:	Flow Color/Clarity (Check a	
	Fully	clear)	
	Partially	Muddy	
Findings	Debris Around Outfall (Check all that apply		
	None	Sheen	
	Sediment	Soapy Foam	
	Trash	Other:	
	Other:		
	Debris in Pipe (Check all that apply):	Flow Odor (Check all that a	pply):
	None	None	X
	Sediment	Petroleum	
	Trash	Sewage	
	Other:	Other:	
	Visual Observations (Circle)	Floatables	Y/62
		Deposits/Stains	Y/A
	Describe	Dillo charivod r	the section discarni
		pipe crowner, c	THE SECURI PROCESSION
	Vegetation Condition (Circle)	Excessive	Inhibited
	Describe		
	Describe		
	Describe		
	Describe Pipe Condition (Circle)	Good Fair Poo	
		Good Fair Poo	en la construction de la constru
		Good Fair Poo	B
		Good Fair Poo	Ð

		Virgini	Capital Outlay Facili PO Box 9 a State University, VA 23 Phone: (804)524-3 Fax: (804)524-5
Structure Condition (Circle)	Good	Fair	Poor
Describe			<u> </u>
Notable Biology (animals, insects, plants, etc.) Describe:			
Receiving Stream Name	App	o Mattox	River
Notes/Necessary Action:			
Certification: f no action is required, certify the following: I certify that the outfall inspection is complete and that no illicit disc CIM Complete and that no illicit disc Signature of Inspector		at this time." 13014 Date	
f illicit discharge investigation is required, provide a time frame for ir	nvestigation com	pletion:	
Document all steps utilized to eliminate the illicit discharge to include			ittent discharges require
ocument all steps utilized to eliminate the illicit discharge to include hree separate investigation with the appropriate documentation.	e date, time, and		ittent discharges require
Document all steps utilized to eliminate the illicit discharge to include three separate investigation with the appropriate documentation. Jpon illicit discharge elimination, re-inspect and certify the following	e date, time, and	actions. Interm	
If illicit discharge investigation is required, provide a time frame for in Document all steps utilized to eliminate the illicit discharge to include three separate investigation with the appropriate documentation. Upon illicit discharge elimination, re-inspect and certify the following "I certify that the illicit discharge has been eliminated, documented, a <u>Signature of Inspector</u>	e date, time, and	actions. Interm	

Appendix MCM 4



July 1, 2013-June 30, 2014 Land Disturbing Activities

Project Name	Project Location	Project Description	Estimated Disturbed Area Acreage	Approximate Start Date	Approximate Completion Date	On-site Project Manager Name	On-site Project Manager Contact Information	Responsible Land Disturber Permit Number	Operator Name	VAR10 Registration Number
Bookstore Entrance Improvements	University Avenue	Install a new entrance, retaining wall, hardscape, and landscaping at the front of the University Bookstore	0.21	October 21, 2013	January 22, 2014	Jeff Roe	cell (804)840- 3754	40744	Daniels and Company	VAR10-14- 100242
Multipurpose Center	Ettrick Village	Construct a new 168,000 convocation center and associated parking	50	January 1, 2014	January 1, 2016	Doug Sauer	site (804)479- 3152 main (804)343- 3433	39518 and 40874	S B Ballard	VAR10C- 339
Drainage Improvements/ Stormwater Master Plan	VSU Campus	Install drainage improvements and water quality improvements proposed in the Stormwater Master Plan and related to the implementation of the Campus Master Plan 20/20 Vision	276.7	July 1, 2012	June 30, 2014, with renewal anticipated	As noted by project below	As noted below by project	As noted by project below	Jonathan Taylor (804) 524- 5534	VAR10-13- 100047
Virginia Hall	Hayden Street	Demolition and construction of 3,000+/- s.f. of reinforced concrete pavement, walks, landscaping, storm drainage, and removal and replacement of 160+/- feet of existing steam line.	0.25	June 30, 2014	October 28, 2014	Tony Cook	Cell (804) 432-4562	42758	Jonathan Taylor (804) 524- 5534	VAR10-13- 100047



INSPECTION REPORT

Project Na	oject Name: Bookstore Site Improvement Project Authority: Jonathan Taylor/VSU						
RLD Nam	e <u>: Matthew S</u>	Stauch		RLD No.:40744			
Project Lo	cation <u>: 21011 U</u>	niversity A	ve.	Project No: 212-A2212-014			
Inspector	Name <u>: Bi</u>	<u>ian M. Ha</u>	iskins	Inspection Date: 2/6/2014 Time: 9:30 a.m.			
Previous	violation(s) been	corrected	: 1	YES or INO			
				RAINFALL:			
Date of Rain: 2/3/2014 Amount of Rainfall (inches): 0.38 2/4/2014 0.37 0.08							
			STAGE	OF CONSTRUCTION			
	struction Conference Clearing & Grubbing Rough Grading			Building Construction Image: Construction of SWM Facilities Finish Grading Image: Maintenance of SWM Facilities Final Stabilization Image: Other			
	State/Local	Viol	ation	Description and Location of Problem/Violation ⁽²⁾ , Required or			
ltern#	Regulation ⁽¹⁾	Initial	Repeat	Recommended Corrective Actions, and Other Comments/Notes			
1	MS-4	Х		Repair the damaged silt fence to the west of the project site (Fig. 1).			
2	MS-4	X		Remove the built up sediment from the gutter pans at University Avenue (Fig. 2).			
Re Sp 2. No REQUIRED The require constitute r	gulations (4VAC50-3 ecifications for ESC te whether or not off CORRECTIVE A d corrective action oon-compliance ar	30), Virginia -site damago CTION DE 1 deadline o 1 deadline o	Stormwater I e resulting fro ADLINE DA date applies red correct	t recent publication of the Virginia Erosion and Sediment Control Management Permit Regulations (4VAC50-60), or Annual Standards and om the problem/violation was evident during the inspection. ATE: <u>2/7/2014</u> Re-inspection Date: <u>2/8/2014</u> (DD/MM/YY) (DD/MM/YY) is to <u>all violations</u> noted on this report. If listed violation(s) currently ive actions are not completed by the deadline, a NOTICE TO inforcement actions may be issued to the entity responsible for			
	mpliance on the al			morement actions may be issued to the entity responsible for			
Inspector:	the second s	nature -		2/6/2014 Date			
Acknowledg	rement of on-site rep	ort receipt: F		STAUCH Metterstand 2/6/14 Signature Date			
This report	will be provided to th	e following p	oarties via me	ail, fax, or e-mail within 24 hours of inspection:			



e - 1

Capital Outlay &Facilities PO Box 9044 Petersburg, VA 23806 Phone: (804)524-3971 Fax: (804)524-5383

Bookstore Site Improvements – Erosion & Sediment Control Site Photographs





Capital Outlay & Facilities PO Box 9044 Petersburg, VA 23806 Phone: (804)524-3971 Fax: (804)524-5383

INSPECTION REPORT

Project Na	me: Multipurpo	se Center	-	Project Autho	ority: Jonathan Taylor/VSU
RLD Name	e: Ricky Mar	tinez & Ta	riton Coler	nanRLD No.:	#40874 & #39518
Project Lo	cation: 2 nd Aven	ue and E.	River Rd.	Project No:	212-17665-000 (VAR10C339)
nspector I	Name: Jason M	acDonald		Inspection Da	ate: 01/13/2014 Time: 2:30 p.m.
Previous v	iolation(s) been	corrected	: E	YES or NO	
				RAINFALL:	
	Date of Rain	:			unt of Rainfall (inches):
	01/10/2014	-			0.17
	01/11/2014				0.47
			STAGE	OF CONSTRUCTION	
Pre-Con	struction Conference	П	STADE	Building Construction	Construction of SWM Facilities
				Finish Grading	Maintenance of SWM Facilities
	Rough Grading			Final Stabilization	Other
Homt	State/Local	Vio	lation	Description and Location of	f Problem/Violation ⁽²⁾ , Required or Recommended
Item#	Regulation ⁽¹⁾	Initial	Repeat	Corrective A	Actions, and Other Comments/Notes
1	MS-1	X			w to all denuded areas that will not be fine graded for (i.e. areas that have been cleared and grubbed). See
2	MS-10	Х		Make repairs to or install new ir and concrete culvert inlets. Se	nlet protection at 2nd and 3rd Avenue roadway inlets the figure 1 and 2.
3	MS-4	Х		Install silt fence along the north sediment from running onto pro	n side of the Church Property (Parcel 20905) to prevent operty. See figure 3.
4	MS-17	х		Remove sediment from the roa shovels) Sweep roadways dail	dway gutter pans. (i.e. remove the sediment/mud with ly. See figure 1.
Vir 2. No REQUIRED The required correct e issued to the nspector:	ginia Stormwater Mana, te whether or not off-sit CORRECTIVE A orrective action deadlin tive actions are not con e entity responsible for	gement Perm e damage res CTION DE e date applies onsuring com gnature	it Regulations (ulting from the ADLINE DA s to <u>all violation</u> e deadline, a No	AVAC50-60), or Annual Standards problem/violation was evident duri (DD/MM/YY) s noted on this report. If listed viol DTICE TO COMPLY, STOP WOF prove project.	ing the inspection. Re-inspection Date: 01/21/2014 (DD/MM/YY) lation(s) currently constitute non-compliance and/or RK ORDER, and/or other enforcement actions may 21/14/14 Date Date 1-14-2014
This report	will be provided to th	l ne following	Print Name parties via ma	Signature C	Urs of inspection:
_					





Appendix MCM 5



Filterra BMPs

Virginia State University Inspection	on & Maintenance Checklist
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Date: 3/18/14			Inspector Name:			yaff Wehunt	
Type of BMP: Roof 1	Filterr	a	Inspection Date: 03/18/14				
BMP ID #:		Filterra Size:	5'× 7	•			
Component			Comments:				
		Initia	l Observations (Circ	cle Y/N)			
Standing Water?	Y						
Damage to Box Structure?	Y	\bigcirc					
Damage to Grate?	Y	\bigcirc					
ls Bypass Clear?	\odot	N					
			Waste				
Silt/Clay	Y	\mathbb{N}					
Cups/Bags/Trash	0	N					
Leaves	\bigotimes	N					
Other	Y	\mathbb{N}					
1			Media				
Depth from Top of Slab to Surface of Mulch (in.)	1.5'		Note: If depth fro mulch is added ur			o surface of mulch f 14" is achieved.	exceeds 14",
			Mulch				
Netting in Need of Replacement?	Y	\mathbb{N}	Mulch Replacement or Addition Necessary?			nt Needed (in.):	
Stones in Need of Replacement?	Y		Type of Mulch to	Be Addeo	l or Re	eplaced?	
	-		Plantings				
Plant Information	#1	#2	Note: #1 indicates the plant to the left facing the throat of the		#2		
Height Above Grate? (ft.)	3.5'		Health of plant(s)			Alive/Dead	Alive/Dead
Stem Diameter/Caliper? (in.)			Damage to plant(s)?		YN	Y/N
Width at Widest Point?	2.5					YN	



C	clean waste, replace m	iulch
Certification		
	nance is required, certify the following: t the inspection is complete and that no action is nece	ssary at this time."
	nance is required, certify the following:	ssary at this time." Date
'I certify that f maintenan	nance is required, certify the following: t the inspection is complete and that no action is nece	Date completion: by next inspection
"I certify that If maintenan Upon mainte	nance is required, certify the following: t the inspection is complete and that no action is nece Signature of Inspector nce is required, provide a time frame for maintenance of	Date completion: by next inspection g:
"I certify that If maintenan Upon mainte	nance is required, certify the following: t the inspection is complete and that no action is nece Signature of Inspector nce is required, provide a time frame for maintenance of enance completion, re-inspect and certify the following	Date completion: by next inspection g:



Filterra BMPs

Virginia	State University	Inspection &	Maintenance Checklist
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Date: 03/18/14 Type of BMP: Roof Filterra BMP ID #: 2			Inspector Name: Ameria Wehunt Inspection Date: 03/18/14 Filterra Size: 5' x 7 '												
								Component			Comments:				
										Initia	Observations (Circ	cle Y/N)			
Standing Water?	Y	N													
Damage to Box Structure?	Y	(\mathbb{N})													
Damage to Grate?	Y														
Is Bypass Clear?	Ø	N			_										
	_		Waste												
Silt/Clay	Y														
Cups/Bags/Trash	\odot	N													
Leaves	(\mathbf{Y})	N													
Other	Y	N													
			Media												
Depth from Top of Slab to Surface of Mulch (in.)	1.5	1	Note: If depth from top of slab to surface of mulch exceeds 14", mulch is added until the depth of 14" is achieved.												
			Mulch												
Netting in Need of Replacement?	Y		Mulch Replacement or Addition Necessary?	ON Amount of Mulch Addition or Replacement Needed (in. + ``			nt Needed (in.):								
Stones in Need of Replacement?	Y		Type of Mulch to Be Added or Replaced?												
		-	Plantings												
			the left facing the	1 indicates the plant to facing the throat of the d #2 represents the the right facing the of the inlet.		#1									
Plant Information	#1	#2		facing the			#2								
	#1	#2	plant to the right	facing the t.		Alive/Dead	#2 Alive/Dead								
Plant Information Height Above Grate? (ft.) Stem Diameter/Caliper? (in.)	#1 6' 1.5``	#2	plant to the right throat of the inlet	facing the t.		0									


Notes:	
Clean waste, replacemu	Ich
Certification:	
Certification: If no maintenance is required, certify the following:	
	necessary at this time."
f no maintenance is required, certify the following:	necessary at this time."
f no maintenance is required, certify the following: 'I certify that the inspection is complete and that no action is a	necessary at this time."
f no maintenance is required, certify the following:	
f no maintenance is required, certify the following: 'I certify that the inspection is complete and that no action is <u>Signature of Inspector</u>	Date
f no maintenance is required, certify the following: 'I certify that the inspection is complete and that no action is a	Date Ince completion: by next inspection
f no maintenance is required, certify the following: 'I certify that the inspection is complete and that no action is o Gignature of Inspector f maintenance is required, provide a time frame for maintena Jpon maintenance completion, re-inspect and certify the follo	Date Ince completion: by next inspection owing:
If no maintenance is required, certify the following: I certify that the inspection is complete and that no action is Signature of Inspector If maintenance is required, provide a time frame for maintena	Date Ince completion: by next inspection owing:
If no maintenance is required, certify the following: "I certify that the inspection is complete and that no action is a Signature of Inspector If maintenance is required, provide a time frame for maintena Upon maintenance completion, re-inspect and certify the follo "I certify that all recommended maintenance is complete and	Date Ince completion: by next inspection owing: no additional action is necessary at this time."
If no maintenance is required, certify the following: I certify that the inspection is complete and that no action is a Signature of Inspector If maintenance is required, provide a time frame for maintena Upon maintenance completion, re-inspect and certify the follo	Date Ince completion: by next inspection owing:
If no maintenance is required, certify the following: "I certify that the inspection is complete and that no action is a Signature of Inspector If maintenance is required, provide a time frame for maintena Upon maintenance completion, re-inspect and certify the follo "I certify that all recommended maintenance is complete and	Date Ince completion: by next inspection owing: no additional action is necessary at this time."



Virginia State Univers	ity Inspection	<u>گ</u>	Maintenance Checklist
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Date: 03/18/14			Inspector Name:	Ame	eria	wehunt	
Type of BMP: <u>Book</u> F	ilterra		Inspection Date:_	03/11	7/1	4-	_
BMP ID #:3			Filterra Size:	5'×7'			
Component			Comments:				
		Initia	l Observations (Circ	cle Y/N)			
Standing Water?	Y	\mathbb{N}					
Damage to Box Structure?	Y	\mathbb{N}					
Damage to Grate?	Y	N					
Is Bypass Clear?	\bigcirc	N					
			Waste				
Silt/Clay	Y	\mathbb{N}					
Cups/Bags/Trash	0	N					
Leaves	\odot	N					
Other	Y		1				
			Media				
Depth from Top of Slab to Surface of Mulch (in.)	7	•	Note: If depth from mulch is added up			to surface of mulch f 14" is achieved.	exceeds 14",
			Mulch				
Netting in Need of Replacement?	Y	\mathbb{N}	Mulch Replacement or Addition Necessary?	(Y) _N		unt of Mulch tion or Replaceme ຜ.ອິ	nt Needed (in.):
Stones in Need of Replacement?	Y		Type of Mulch to	Be Addeo	d or R	eplaced?	
			Plantings				
Plant Information	#1	#2	Note: #1 indicate the left facing the inlet and #2 repre- plant to the right throat of the inlet	e throat o esents the facing th	f the	#1	#2
Height Above Grate? (ft.)	5'		Health of plant(s)			Alive/Dead	Alive/Dead
Stem Diameter/Caliper? (in.)	1.25"		Damage to plant(s)?		YØ	Y/N
					-		



Clean waste, repla	ice mulch
Certification:	
	n is necessary at this time."
	n is necessary at this time."
	n is necessary at this time."
I certify that the inspection is complete and that no action Signature of Inspector f maintenance is required, provide a time frame for maint	Date tenance completion: by next inspection
I certify that the inspection is complete and that no action Signature of Inspector f maintenance is required, provide a time frame for maint Jpon maintenance completion, re-inspect and certify the s	Date tenance completion: by next inspection following:
I certify that the inspection is complete and that no action Signature of Inspector f maintenance is required, provide a time frame for maint Jpon maintenance completion, re-inspect and certify the s	Date tenance completion: by next inspection following:
I certify that the inspection is complete and that no action Signature of Inspector If maintenance is required, provide a time frame for maint Upon maintenance completion, re-inspect and certify the s	Date tenance completion: by next inspection following:
If maintenance is required, provide a time frame for maint Upon maintenance completion, re-inspect and certify the f "I certify that all recommended maintenance is complete a	Date



Virginia State University Inspection & Maintenance Checklist

Date: 03/12/14			Inspector Name:	Am	evia	wenunt	_
Type of BMP: <u> </u>	Filtern	2	Inspection Date:	03/	18/1	+	_
BMP ID #:4		_	Filterra Size:	5'×7	1		1
Component			Comments:				
		Initia	Observations (Cir	cle Y/N)			
Standing Water?	Y	N					
Damage to Box Structure?	Y						
Damage to Grate?	Y						
ls Bypass Clear?	\bigcirc	N					
			Waste				
Silt/Clay	Y	\bigcirc					
Cups/Bags/Trash	Ø	N					
Leaves	()	N					
Other	Y						
			Media				
Depth from Top of Slab to Surface of Mulch (in.)	1.5	•	Note: If depth from mulch is added un			to surface of mulch f 14" is achieved.	exceeds 14",
			Mulch		-		
Netting in Need of Replacement?	Y		Mulch Replacement or Addition Necessary?	Ø _ℕ		ount of Mulch tion or Replaceme 4-''	nt Needed (in.):
Stones in Need of Replacement?	Y		Type of Mulch to	Be Addeo	d or R	eplaced?	
	-		Plantings				
Plant Information	#1	#2	Note: #1 indicate the left facing the inlet and #2 repre plant to the right throat of the inlet	e throat o esents the facing the	f the	#1	#2
Height Above Grate? (ft.)	3.5'		Health of plant(s)			Alive Dead	Alive/Dead
	15		Democrate alert/	-\7	-	YN	Y/N
Stem Diameter/Caliper? (in.)	1"		Damage to plant(sjr			T/IN



	Clean waste, replace mulch
Certificati	n:
2,100	n: enance is required, certify the following:
If no main	
If no main	enance is required, certify the following:
If no main	enance is required, certify the following:
"l certify t	enance is required, certify the following: nat the inspection is complete and that no action is necessary at this time."
If no main "I certify t If mainten	enance is required, certify the following: at the inspection is complete and that no action is necessary at this time."
lf no main "I certify t If mainten Upon main	enance is required, certify the following: at the inspection is complete and that no action is necessary at this time." Signature of Inspector Date ance is required, provide a time frame for maintenance completion: by nextospection
lf no main "I certify t If mainten Upon main	enance is required, certify the following: at the inspection is complete and that no action is necessary at this time." Signature of Inspector Date Date ance is required, provide a time frame for maintenance completion: by nextinspection tenance completion, re-inspect and certify the following:
lf no main "I certify t If mainten Upon main	enance is required, certify the following: at the inspection is complete and that no action is necessary at this time." Signature of Inspector Date Date ance is required, provide a time frame for maintenance completion: by nextinspection tenance completion, re-inspect and certify the following:
lf no main "I certify t If mainten Upon main	enance is required, certify the following: The inspection is complete and that no action is necessary at this time." Signature of Inspector Date Date Ance is required, provide a time frame for maintenance completion: by nextinspection tenance completion, re-inspect and certify the following: The analysis of the following: The analysis of the following: The analysis of the following: The analysis of the following: The following: The following is necessary at this time."
If no main "I certify t If mainten Upon main "I certify t	enance is required, certify the following: The inspection is complete and that no action is necessary at this time." Signature of Inspector Date Date Ance is required, provide a time frame for maintenance completion: by nextinspection tenance completion, re-inspect and certify the following: The analysis of the following: The analysis of the following: The analysis of the following: The analysis of the following: The following: The following is necessary at this time."



Virginia State University	Inspection & Maintenance Checklist
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Date: 03/18/14		_	Inspector Name:	Am	eric	wenunt	
Type of BMP: Roof	Filterra		Inspection Date:	031	18/1	4	_
BMP ID #:5			Filterra Size:	5'×7'			-
Component			Comments:				
		Initia	l Observations (Cire	cle Y/N)			
Standing Water?	Y						
Damage to Box Structure?	Y	(\mathbb{N})					
Damage to Grate?	γ						
ls Bypass Clear?	\odot	N					
			Waste				
Silt/Clay	\odot	N					
Cups/Bags/Trash	\odot	N					
Leaves	\otimes	N					
Other	Y						
			Media				
Depth from Top of Slab to Surface of Mulch (in.)	1.5	1	Note: If depth from mulch is added un			o surface of mulch f 14" is achieved.	exceeds 14",
			Mulch				
Netting in Need of Replacement?	Y	\mathbb{N}	Mulch Replacement or Addition Necessary?	(℃ N		unt of Mulch tion or Replacemen 4-	nt Needed (in.):
Stones in Need of Replacement?	Y		Type of Mulch to	Be Addeo	d or Re	eplaced?	
			Plantings				
Plant Information	#1	#2	Note: #1 indicate the left facing the inlet and #2 repre plant to the right throat of the inlet	throat o esents the facing the	f the	#1	#2
Height Above Grate? (ft.)	3.5'		Health of plant(s)			Alive Dead	Alive/Dead
			1			-	
Stem Diameter/Caliper? (in.)	1.5"		Damage to plant(s)?		YN	Y/N



(Man	waste, replace	mulch
a whife and			
Certificati		ed certify the following:	
f no main	itenance is requir	ed, certify the following:	
f no main	itenance is requir	ed, certify the following: n is complete and that no action is necess	sary at this time."
f no main	itenance is requir		sary at this time."
f no main	itenance is requir	n is complete and that no action is neces	
f no main	itenance is requir		sary at this time." Date
f no main	itenance is requir	n is complete and that no action is neces	
f no main I certify t	itenance is requir hat the inspectio	n is complete and that no action is necess Signature of Inspector	Date
f no main I certify t f mainten	itenance is requir that the inspectio	n is complete and that no action is necess Signature of Inspector	Date ompletion: by nextinspection
f no main I certify t f mainten Jpon mai	itenance is requir that the inspectio	n is complete and that no action is necess Signature of Inspector provide a time frame for maintenance co tion, re-inspect and certify the following:	Date ompletion: by nextinspection
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f no main I certify t f mainten Jpon mai	itenance is requir that the inspectio	n is complete and that no action is necess Signature of Inspector provide a time frame for maintenance co tion, re-inspect and certify the following:	Date ompletion: by nextinspection
f no main 'I certify t f mainten Jpon mai	itenance is requir that the inspectio	n is complete and that no action is necess Signature of Inspector provide a time frame for maintenance co tion, re-inspect and certify the following: nded maintenance is complete and no ad	Date ompletion: <u>by nextinspection</u> ditional action is necessary at this time."
f no main 'I certify t Jpon mai 'I certify t	itenance is requir that the inspectio	n is complete and that no action is necess Signature of Inspector provide a time frame for maintenance co tion, re-inspect and certify the following: nded maintenance is complete and no ad	Date ompletion: <u>by nextinspection</u> ditional action is necessary at this time."



Virginia State	University	Inspection	&	Maintenance Che	ecklist	
virginia State	University	inspection	ÔL.	iviaintenance Che	CKII	St

Date: 03/18/14			Inspector Name:	A	me	ia wenu	nt
Type of BMP: Roof	Filterro	L	Inspection Date:	G 3	181	14	_
BMP ID #:6			Filterra Size:	5'×-	7'		
Component			Comments:				
		Initia	Observations (Cire	cle Y/N)			
Standing Water?	Y	\mathbb{N}					
Damage to Box Structure?	Y						
Damage to Grate?	Y	\blacksquare					
Is Bypass Clear?	3	N					
			Waste				
Silt/Clay	Y	\mathbb{N}					
Cups/Bags/Trash	\bigcirc	N					
Leaves	Ø	N					
Other	Y						
			Media				
Depth from Top of Slab to Surface of Mulch (in.)	1.	5'	Note: If depth from mulch is added ur			to surface of mulch f 14" is achieved.	exceeds 14",
			Mulch				
Netting in Need of Replacement?	Y		Mulch Replacement or Addition Necessary?	(Y) N		unt of Mulch tion or Replaceme 4 ''	nt Needed (in.):
Stones in Need of Replacement?	Y		Type of Mulch to	Be Addeo	d or R	eplaced?	
			Plantings	_			
Plant Information	#1	#2	Note: #1 indicate the left facing the inlet and #2 repre- plant to the right throat of the inlet	e throat o esents the facing the	f the	#1	#2
Height Above Grate? (ft.)	4.5		Health of plant(s)			Alive/Dead	Alive/Dead
Stem Diameter/Caliper? (in.)	_1.5°		Damage to plant(s)?		Y/N	Y/N
Width at Widest Point?	3'		Plant(s) replaced			Y/🕑	



	Clean	waste, replac	e mulch
)	
	_		
f no mainte	nance is required,	certify the following:	ssary at this time."
f no mainte	nance is required,	certify the following: complete and that no action is nece	ssary at this time."
f no mainte	nance is required,	complete and that no action is nece	ssary at this time."
lf no mainte	nance is required,		
f no mainte 'I certify tha f maintenar	nance is required, It the inspection is	scomplete and that no action is nece Signature of Inspector	Date completion: by next inspection
f no mainte 'I certify tha f maintenar Jpon mainte	nance is required, t the inspection is 	s complete and that no action is nece Signature of Inspector povide a time frame for maintenance of n, re-inspect and certify the following	Date completion: by next inspection g:
lf no mainte 'I certify tha If maintenar Upon mainte	nance is required, t the inspection is 	s complete and that no action is nece Signature of Inspector povide a time frame for maintenance of n, re-inspect and certify the following	Date completion: by next inspection
If no mainte "I certify tha If maintenar Upon mainte	nance is required, t the inspection is 	s complete and that no action is nece Signature of Inspector by ide a time frame for maintenance of n, re-inspect and certify the following ad maintenance is complete and no a	Date completion: by next inspection g: dditional action is necessary at this time."
"I certify tha If maintenar Upon mainte	nance is required, t the inspection is 	s complete and that no action is nece Signature of Inspector povide a time frame for maintenance of n, re-inspect and certify the following	Date completion: by next inspection g:
lf no mainte "I certify tha If maintenar Upon mainte	nance is required, t the inspection is 	s complete and that no action is nece Signature of Inspector by ide a time frame for maintenance of n, re-inspect and certify the following ad maintenance is complete and no a	Date completion: by next inspection g: dditional action is necessary at this time."



Virginia State	University	Inspection 8	& Mainter	nance Checklis	t
virginia State	University	inspection a	x wanter	nance checki	12

Date: 03/19/14	Date:3 /19 / 14					a wehunt	
Type of BMP: ROOF F	ilterra		Inspection Date: 03/18/14				
BMP ID #: 16	Filterra Size: 5' * 7'						
Component			Comments:				
	Initia	l Observations (Circ	cle Y/N)				
Standing Water?	Y						
Damage to Box Structure?	Y	N					
Damage to Grate?	Y	\mathbb{N}					
Is Bypass Clear?	\heartsuit	N					
			Waste				
Silt/Clay	Y						
Cups/Bags/Trash	Ø	N					
Leaves	Ø	N					
Other	\mathbf{Y}	N	E-C matting				
			Media				
Depth from Top of Slab to Surface of Mulch (in.)	1.5		Note: If depth fro mulch is added ur			to surface of mulch	exceeds 14",
			Mulch		-ptilo		
			Mulch		1		
Netting in Need of Replacement?	Y	(\mathbb{N})	Replacement or Addition Necessary?	(Y) N	Addi	unt of Mulch tion or Replacemer 4- "	nt Needed (in.):
Stones in Need of Replacement?	Y		Type of Mulch to	Be Addeo	d or Re	eplaced?	
	_		Plantings		-		
Plant Information	#1	#2	Note: #1 indicate the left facing the inlet and #2 repre plant to the right throat of the inlet	throat o sents the facing the	f the	#1	#2
Height Above Grate? (ft.)	7.5	_	Health of plant(s)			Alive/Dead	Alive/Dead
Stem Diameter/Caliper?			Damage to plant(s)? YN Y/N				
	Stem Diameter/Caliper? 1.5 Damage to (in.) Vidth at Widest Point? 2' Plant(s) re			s)?		YN	Y/N



Notes:	Clean	waste	e, replac	e mul	ch 's		
	note	leave	e, replac EC-mat ch to (ting in	place	over	
	new	mu	ch to (prevent	Scour		
f no mainte	enance is requ	ired, certify the f	-				
If no mainte	enance is requ		following: and that no action is	necessary at this	time."		
f no mainte	enance is requ		-	necessary at this	time."		
If no mainte	enance is requ	on is complete a	-	necessary at this	time." Date		
"I certify th	enance is requ at the inspecti	on is complete a Signature	and that no action is e of Inspector		Date	_	
f no mainto 'I certify th f maintena	enance is requ at the inspection	on is complete a Signature I, provide a time	and that no action is e of Inspector e frame for mainten	ance completion:	Date	inspection	`
If no mainto ''I certify th If maintena	enance is requ at the inspection	on is complete a Signature I, provide a time	and that no action is	ance completion:	Date	inspection	`
f no mainte 'I certify th f maintena Jpon main	enance is required tenance comp	on is complete a Signature d, provide a time letion, re-inspect	and that no action is e of Inspector e frame for mainten	ance completion:_ owing:	Date by next		`
If no mainta ''I certify th If maintena Upon main	enance is required tenance comp	on is complete a Signature d, provide a time letion, re-inspect	and that no action is e of Inspector e frame for maintena ct and certify the foll	ance completion:_ owing:	Date by next		`
If no mainta ''I certify th If maintena Upon main	enance is required tenance comp	on is complete a Signature d, provide a time letion, re-inspect ended maintenat	and that no action is e of Inspector e frame for maintena ct and certify the foll ance is complete and	ance completion:_ owing:	Date		`
If no mainta ''I certify th If maintena Upon main	enance is required tenance comp	on is complete a Signature d, provide a time letion, re-inspect ended maintenat	and that no action is e of Inspector e frame for maintena ct and certify the foll	ance completion:_ owing:	Date by next		`
If no mainta ''I certify th If maintena Upon main	enance is required tenance comp	on is complete a Signature d, provide a time letion, re-inspect ended maintenat	and that no action is e of Inspector e frame for maintena ct and certify the foll ance is complete and	ance completion:_ owing:	Date		`



Virginia State Universit	y Inspection &	Maintenance Checklist
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Date: 03/18/14			Inspector Name: America wehunt				
Type of BMP: 2006 F	ilterra		Inspection Date: 03118/14 Filterra Size: 5' × 7'				
BMP ID #:17							
Component		Comments:					
		Initia	I Observations (Circ	cle Y/N)			
Standing Water?	Y	\mathbb{N}					
Damage to Box Structure?	Y	\mathbb{N}					
Damage to Grate?	Y						
Is Bypass Clear?	Ø	N					
			Waste				
Silt/Clay	Y	N					
Cups/Bags/Trash	Y						
Leaves	Ø	N					
Other	\bigcirc	N	E-c ma	+۲: ۳9			
			Media				
Depth from Top of Slab to Surface of Mulch (in.)	1.7		Note: If depth fro mulch is added ur	-		to surface of mulch f 14" is achieved.	exceeds 14",
			Mulch				
Netting in Need of Replacement?	Y		Mulch Replacement or Addition Necessary?	$\left(\begin{array}{c} \mathbf{y} \\ \mathbf{N} \end{array} \right)$		ount of Mulch ition or Replacemen 6.5'	nt Needed (in.):
Stones in Need of Replacement?	Y		Type of Mulch to	Be Adde	d or R	eplaced?	
			Plantings				
Plant Information	#1	#2	Note: #1 indicate the left facing the inlet and #2 repre plant to the right throat of the inlet	e throat o esents the facing th	f the	#1	#2
Height Above Grate? (ft.)	6'		Health of plant(s)			Alive/Dead	Alive/Dead
Stem Diameter/Caliper?			Damage to plant(s)?		YN	Y/N
(in.)	t Point?						



Votes:	Clean	waste, replac	e mula	ch. Note	
	leave 1	EC-matting 1	n place	over nee	2
	mulc	n to prevent	SLOUT		
		X X			
f no mair	tenance is required	, certify the following:		time "	
lf no mair	tenance is required	, certify the following: s complete and that no action	is necessary at this	time."	
f no mair	tenance is required		is necessary at this	time."	
	tenance is required		is necessary at this	time." Date	
lf no mair "I certify t	tenance is required hat the inspection is	s complete and that no action Signature of Inspector		Date	, bio
If no mair 'I certify t If mainter	tenance is required hat the inspection is	s complete and that no action	nance completion:	Date	<u>spection</u>
f no mair 'I certify t If mainter Upon mai	tenance is required hat the inspection is nance is required, pr ntenance completic	s complete and that no action Signature of Inspector ovide a time frame for mainte in, re-inspect and certify the fo	nance completion:	Date	
lf no mair "l certify t lf mainter Upon mai	tenance is required hat the inspection is nance is required, pr ntenance completic	s complete and that no action Signature of Inspector ovide a time frame for mainte	nance completion:	Date	
lf no mair "I certify t If mainter Upon mai	tenance is required hat the inspection is nance is required, pr ntenance completic	s complete and that no action Signature of Inspector ovide a time frame for mainte in, re-inspect and certify the fo	nance completion:	Date	



Filterra BMPs

Virginia State University Inspection & Maintenance Checklist

Date: 63/18/14			Inspector Name: Americ usenunt				
Type of BMP: R cof	Filterra		Inspection Date: 03/18/14				
BMP ID #: 1 8			Filterra Size: 5 × 7 ′				
Component	Component						
		Initia	l Observations (Cir	cle Y/N)			
Standing Water?	Y	\mathbb{Z}					
Damage to Box Structure?	Y	\mathbb{N}					
Damage to Grate?	Y						
Is Bypass Clear?	(\mathbf{Y})	N					
			Waste				
Silt/Clay	Y						
Cups/Bags/Trash	\bigotimes	N					
Leaves	Q	N					
Other	\odot	N	E-C mat	ting			
	-		Media				
Depth from Top of Slab to Surface of Mulch (in.)	1-6	,	Note: If depth from mulch is added up			to surface of mulch f 14" is achieved.	exceeds 14",
			Mulch				
Netting in Need of Replacement?	Y	(\mathbb{N})	Mulch Replacement or Addition Necessary?	(Y) N		ount of Mulch tion or Replacement 5.25	nt Needed (in.):
Stones in Need of Replacement?	Y	N	Type of Mulch to	Be Addeo	d or R	eplaced?	
			Plantings				
Plant Information	#1	#2	Note: #1 indicate the left facing the inlet and #2 repre plant to the right throat of the inlet	e throat o esents the facing th	f the	#1	#2
Height Above Grate? (ft.)	7.5'		Health of plant(s)			AliveDead	Alive/Dead
Stem Diameter/Caliper? (in.)	_1*		Damage to plant(s)?		Y	Y/N
de ante a construction de la con	2.5'		Plant(s) replaced?				



	Signature of Inspector	Date
'l certify 1	that all recommended maintenance is complete and no ad	ditional action is necessary at this time."
f mainter Jpon mai	enance is required, provide a time frame for maintenance co aintenance completion, re-inspect and certify the following:	ompletion: by next inspection
	Signature of Inspector	Date
	tion: ntenance is required, certify the following: that the inspection is complete and that no action is neces	sary at this time."
	Clean Waste, replace leave EC-matting in mulch to prevent s	place over new



Virginia State Univ	ersity Inspection	&	Maintenance Checklist	
- Buing orgine outline	sioney mopercuon	-		

Date: 03/18/14	Inspector Name:	Am	e1:0	wenunt			
Type of BMP:	Filterr	a Inspection Date: 03/10/14					
BMP ID #:		Filterra Size: 5'メフ'					
Component			Comments:				
		Initia	l Observations (Cire	cle Y/N)			
Standing Water?	Y	\mathbb{O}					
Damage to Box Structure?	Y	Ø					
Damage to Grate?	Y	R					_
ls Bypass Clear?	Ø	N	1				
			Waste				
Silt/Clay	Y	\mathbb{R}					
Cups/Bags/Trash	Ø	N					
Leaves	\odot	N					
Other	٢	N	E-C mas	Hing			
			Media				
Depth from Top of Slab to Surface of Mulch (in.)	1.5	5 '	Note: If depth from mulch is added up	•		to surface of mulch f 14" is achieved.	exceeds 14",
			Mulch			3	
Netting in Need of Replacement?	Y	\mathbb{N}	Mulch ' Replacement or Addition Necessary?	(Y) N	1	ount of Mulch tion or Replaceme 4 ''	nt Needed (in.):
Stones in Need of Replacement?	Y		Type of Mulch to	Be Addeo	d or R	eplaced?	
1			Plantings				
Plant Information	#1	#2	Note: #1 indicate the left facing the inlet and #2 repre plant to the right throat of the inle	e throat o esents the facing the	f the	#1	#2
Height Above Grate? (ft.)	6		Health of plant(s)			Alive/Dead	Alive/Dead
Stem Diameter/Caliper? (in.)	1"		Damage to plant(s)?		YN	Y/N
Width at Widest Point?	3.5'		Plant(s) replaced	?		Y,N	Y/N



	LIPON WASTER VEN	ace murch.	NOTE,
	Clean waste, repi leave EC-mattin mulch to prev	a in place	over new)
	LAVE EC-Marini	ginpicia	
	mulch to prev	rent scour.	
Certificat	tion:		
	ntenance is required, certify the following:		
		on is necessary at this time."	
	ntenance is required, certify the following:	on is necessary at this time."	
	ntenance is required, certify the following: that the inspection is complete and that no action		
	ntenance is required, certify the following:	on is necessary at this time." Date	
"l certify	ntenance is required, certify the following: that the inspection is complete and that no action Signature of Inspector	Date	
"l certify If mainte	ntenance is required, certify the following: that the inspection is complete and that no action Signature of Inspector nance is required, provide a time frame for main	Date	ct inspection
"l certify If mainte	ntenance is required, certify the following: that the inspection is complete and that no action	Date	t inspection
"l certify If mainte Upon ma	ntenance is required, certify the following: that the inspection is complete and that no action Signature of Inspector nance is required, provide a time frame for main	Date Intenance completion: by nex	
"l certify If mainte Upon ma	ntenance is required, certify the following: that the inspection is complete and that no action Signature of Inspector nance is required, provide a time frame for main intenance completion, re-inspect and certify the	Date Intenance completion: by nex	
"l certify If mainte Upon ma	ntenance is required, certify the following: that the inspection is complete and that no action Signature of Inspector nance is required, provide a time frame for main intenance completion, re-inspect and certify the	Date Intenance completion: by nex	
"l certify If mainte Upon ma	ntenance is required, certify the following: that the inspection is complete and that no action Signature of Inspector nance is required, provide a time frame for main intenance completion, re-inspect and certify the	Date Intenance completion: by nex	
"l certify If mainte Upon ma	ntenance is required, certify the following: that the inspection is complete and that no action Signature of Inspector nance is required, provide a time frame for main intenance completion, re-inspect and certify the that all recommended maintenance is complete	Date	
"l certify If mainte Upon ma	ntenance is required, certify the following: that the inspection is complete and that no action Signature of Inspector nance is required, provide a time frame for main intenance completion, re-inspect and certify the that all recommended maintenance is complete	Date	



	Virginia State	University	Inspection 8	& Maintenance	Checklist
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Date: 03116 /14	Inspector Name: Arneita wenunt						
Type of BMP: ROOC		Inspection Date: 03/18/14					
BMP ID #: 20			Filterra Size:	5' 7'			4
Component			Comments:				
		Initia	l Observations (Cir	cle Y/N)			
Standing Water?	Y	\bigcirc					
Damage to Box Structure?	Y						
Damage to Grate?	Y						
Is Bypass Clear?	\bigcirc	N					
			Waste				
Silt/Clay	Y	\mathbb{R}					
Cups/Bags/Trash	\odot	N					
Leaves	Ø	N					
Other	0	N	E-C maning				
			Media				
Depth from Top of Slab to Surface of Mulch (in.)	1.6		Note: If depth from mulch is added up			o surface of mulch f 14" is achieved.	exceeds 14",
	_		Mulch				
Netting in Need of Replacement?	Y	\mathbb{N}	Mulch Replacement or Addition Necessary?				nt Needed (in.):
Stones in Need of Replacement?	Y		Type of Mulch to	Be Addec	or Re	eplaced?	
			Plantings				
Plant Information	#1	#2	the left facing the inlet and #2 repre	Note: #1 indicates the plant to the left facing the throat of the inlet and #2 represents the plant to the right facing the		#1	#2
Height Above Grate? (ft.)	6'	_	Health of plant(s)			Alive/Dead	Alive/Dead
Stem Diameter/Caliper? (in.)	1.5"		Damage to plant(s)?		Y	Y/N
Width at Widest Point?	2'		Plant(s) replaced	2		YN	Y/N



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Notes: Clean	waste, replace.	muin. Noic,
loare	EC-matting in pl	ace, over new)
leave	a maning in p	
mulc	n to prevent su	. YUC
	X X	
	in di contificatio follouringi	
f no maintenance is requ	ired, certify the following:	
f no maintenance is requ	ired, certify the following: on is complete and that no action is neces	ssary at this time."
f no maintenance is requ		ssary at this time."
f no maintenance is requ	on is complete and that no action is neces	
f no maintenance is requ		ssary at this time." Date
If no maintenance is requ	on is complete and that no action is neces Signature of Inspector	Date
f no maintenance is requ 'I certify that the inspecti	on is complete and that no action is neces Signature of Inspector	Date
If no maintenance is required in the inspection of the inspection	on is complete and that no action is neces Signature of Inspector	Date completion: by nextinspection
f no maintenance is requ 'I certify that the inspecti f maintenance is required Jpon maintenance comp	on is complete and that no action is neces Signature of Inspector d, provide a time frame for maintenance of letion, re-inspect and certify the following	Date completion: by nextinspection
f no maintenance is requ I certify that the inspecti maintenance is required Jpon maintenance comp	on is complete and that no action is neces Signature of Inspector d, provide a time frame for maintenance of	Date completion: by nextinspection
If no maintenance is required in the inspection of the inspection	on is complete and that no action is neces Signature of Inspector d, provide a time frame for maintenance of letion, re-inspect and certify the following	Date completion: by nextinspection
If no maintenance is required in the inspection of the inspection	on is complete and that no action is neces Signature of Inspector d, provide a time frame for maintenance of letion, re-inspect and certify the following ended maintenance is complete and no ac	Date completion: <u>by nexfinspection</u> g: dditional action is necessary at this time."
"I certify that the inspecti If maintenance is required Upon maintenance comp	on is complete and that no action is neces Signature of Inspector d, provide a time frame for maintenance of letion, re-inspect and certify the following	Date completion: by nextinspection
If no maintenance is requ "I certify that the inspecti f maintenance is required Upon maintenance comp	on is complete and that no action is neces Signature of Inspector d, provide a time frame for maintenance of letion, re-inspect and certify the following ended maintenance is complete and no ac	Date completion: <u>by nexfinspection</u> g: dditional action is necessary at this time."
If no maintenance is requ "I certify that the inspecti f maintenance is required Upon maintenance comp	on is complete and that no action is necess Signature of Inspector d, provide a time frame for maintenance of letion, re-inspect and certify the following ended maintenance is complete and no action Signature of Inspector	Date completion: <u>by nexfinspection</u> g: dditional action is necessary at this time."



Virginia State	University	Inspection 8	& Maintenance	Checklist
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Date: 03/19/14	Inspector Name: Ameria wenunt						
Type of BMP: <u>Roof</u>	۹	Inspection Date: 03/18/14					
BMP ID #: 2.1			Filterra Size:	5'×7'			
Component			Comments:				
		Initia	l Observations (Cire	cle Y/N)			
Standing Water?	Y						
Damage to Box Structure?	Y						
Damage to Grate?	Y	\otimes					
ls Bypass Clear?	\bigotimes	N					
			Waste				
Silt/Clay	Y	\mathbb{N}					
Cups/Bags/Trash	Ø	N					
Leaves	\bigotimes	N					
Other	\odot	N	E-c matting				
			Media				
Depth from Top of Slab to Surface of Mulch (in.)	2		Note: If depth fro mulch is added ur			o surface of mulch f 14" is achieved.	exceeds 14",
			Mulch				
Netting in Need of Replacement?	Y	N	Mulch Replacement or Addition Necessary?	t or N Amount of Mulch Addition or Replacement Needed (ir			nt Needed (in.):
Stones in Need of Replacement?	Y		Type of Mulch to	Be Addeo	d or Re	eplaced?	
	-		Plantings				
Plant Information	#1	#2	the left facing the inlet and #2 repre	lote: #1 indicates the plant to he left facing the throat of the hlet and #2 represents the lant to the right facing the		#1	#2
Height Above Grate? (ft.)	5'		Health of plant(s)			Alive/Dead	Alive/Dead
	111		Damage to plant(s)?			Y®	Y/N
Stem Diameter/Caliper? (in.)		·	Damage to plant	57:		·	.,



Notes: Clear	n waste, replac	e mulch. No	, te,
lear	e EC-matting i ch toprevent s	in place over	new
mul	ch to prevent s	LON.	
Certification:			
If no maintenance is requ	ired, certify the following:		
If no maintenance is requ	ired, certify the following: ion is complete and that no action is nece	essary at this time."	
If no maintenance is requ		essary at this time."	
If no maintenance is requ		essary at this time." Date	
If no maintenance is requ "I certify that the inspecti	ion is complete and that no action is nece Signature of Inspector	Date	
If no maintenance is requ "I certify that the inspecti f maintenance is require	ion is complete and that no action is nece Signature of Inspector d, provide a time frame for maintenance	Date completion: by nextins	pection
If no maintenance is requ "I certify that the inspecti If maintenance is require Upon maintenance comp	ion is complete and that no action is nece Signature of Inspector d, provide a time frame for maintenance letion, re-inspect and certify the followir	Date completion: by nextins, ig:	
If no maintenance is requ "I certify that the inspecti If maintenance is require Upon maintenance comp	ion is complete and that no action is nece Signature of Inspector d, provide a time frame for maintenance	Date completion: by nextins, ig:	
If no maintenance is requ "I certify that the inspecti If maintenance is require Upon maintenance comp	ion is complete and that no action is nece Signature of Inspector d, provide a time frame for maintenance letion, re-inspect and certify the followir	Date completion: by nextins, ig:	
"I certify that the inspecti If maintenance is required Upon maintenance comp	ion is complete and that no action is nece Signature of Inspector d, provide a time frame for maintenance letion, re-inspect and certify the followir	Date completion: by nextins, ig:	
If no maintenance is requ "I certify that the inspecti If maintenance is require Upon maintenance comp	ion is complete and that no action is nece Signature of Inspector d, provide a time frame for maintenance letion, re-inspect and certify the followir ended maintenance is complete and no a	Date	
If no maintenance is requ "I certify that the inspecti If maintenance is require Upon maintenance comp	ion is complete and that no action is nece Signature of Inspector d, provide a time frame for maintenance letion, re-inspect and certify the followir ended maintenance is complete and no a	Date	



Virginia State Univer	sity Inst	pection &	Maintenance	Checklist
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Date: 03118/14 Type of BMP: Intet Filterra			Inspector Name: America we hunt				
Component			Comments:				
4		Initia	l Observations (Circ	cle Y/N)			
Standing Water?	Y	$\langle \mathbb{N} \rangle$					
Damage to Box Structure?	Y						
Damage to Grate?	Y						
Is Bypass Clear?	\odot	N					
1			Waste				
Silt/Clay	\bigcirc	N					
Cups/Bags/Trash	Ŷ	N					
Leaves	\odot	N					
Other	Y						
			Media				
Depth from Top of Slab to Surface of Mulch (in.)	1.2	,	Note: If depth fro mulch is added ur			o surface of mulch f 14" is achieved.	exceeds 14",
	*		Mulch				
Netting in Need of Replacement?	Y	(\mathbb{N})	Mulch Replacement or Addition Necessary?				nt Needed (in.):
Stones in Need of Replacement?	Y		Type of Mulch to	Be Addeo	d or Re	eplaced?	
	-		Plantings				
Plant Information	#1	#2	the left facing the inlet and #2 repre	ote: #1 indicates the plant to ne left facing the throat of the nlet and #2 represents the lant to the right facing the		#1	#2
Height Above Grate? (ft.)	_6'		Health of plant(s)			Alive Dead	Alive/Dead
Stem Diameter/Coliner2	2"	-				YN	Y/N
Stem Diameter/Caliper? (in.)			Damage to plant(s)?				



Notes:	ean waste, repla	ice mulch	
no maintenance is	required, certify the following:		
f no maintenance is	required, certify the following:	ecessary at this time."	
f no maintenance is	spection is complete and that no action is ne		
f no maintenance is		ecessary at this time." Date	
f no maintenance is I certify that the ins	spection is complete and that no action is ne Signature of Inspector	Date	spection
f no maintenance is I certify that the ins	spection is complete and that no action is ne	Date	spection
f no maintenance is I certify that the ins f maintenance is red Jpon maintenance o	spection is complete and that no action is ne Signature of Inspector quired, provide a time frame for maintenance	Date ce completion: by next in ving:	
f no maintenance is I certify that the ins f maintenance is red Jpon maintenance o	spection is complete and that no action is ne Signature of Inspector quired, provide a time frame for maintenanc completion, re-inspect and certify the follow	Date ce completion: by next in ving:	
f no maintenance is I certify that the ins f maintenance is red Jpon maintenance o	spection is complete and that no action is ne Signature of Inspector quired, provide a time frame for maintenanc completion, re-inspect and certify the follow	Date ce completion: by next in ving:	
'l certify that the ins f maintenance is rec Jpon maintenance c	spection is complete and that no action is ne Signature of Inspector quired, provide a time frame for maintenanc completion, re-inspect and certify the follow ommended maintenance is complete and no	Date ce completion: Date ving: p additional action is necessary at this	



Virginia State University Inspection & Maintenance Checklist

Date:03/18/14			Inspector Name: <u>Ameria</u> <u>Jehunt</u> Inspection Date: <u>03/18/14</u>					
Type of BMP:								
BMP ID #:		_	Filterra Size:	5'×-	7 ⁽			
Component			Comments:					
		Initial	Observations (Cire	cie Y/N)				
Standing Water?	Y	N						
Damage to Box Structure?	Y	N						
Damage to Grate?	Y	\bigcirc						
Is Bypass Clear?	Q	N						
			Waste					
Silt/Clay	Ø	N						
Cups/Bags/Trash	\odot	N						
Leaves	\bigcirc	N						
Other	Y	\bigcirc	•					
			Media					
Depth from Top of Slab to Surface of Mulch (in.)	1.3	•	Note: If depth fro mulch is added ur			to surface of mulch f 14" is achieved.	exceeds 14",	
			Mulch					
Netting in Need of Replacement?	Y		Mulch Replacement or Addition Necessary?	Amount of Mulch Addition or Replacement Needed (ir			nt Needed (in.):	
Stones in Need of Replacement?	Y		Type of Mulch to	Be Addeo	d or Re	eplaced?		
	-		Plantings					
		#2	Note: #1 indicate the left facing the inlet and #2 repre	ne throat of the resents the nt facing the		#1	#2	
Plant Information	#1	#2	plant to the right throat of the inlet	-				
	#1		-	t.		Alive Dead	Alive/Dead	
Plant Information Height Above Grate? (ft.) Stem Diameter/Caliper? (in.)		π2	throat of the inlet	t		Alive Dead	Alive/Dead Y/N	



Notes:	Clean waste, replace	e much
ertification no mainte	n: nance is required, certify the following:	
'l certify tha	at the inspection is complete and that no action is necess	ary at this time."
	Signature of Inspector	Date
f maintenar Jpon maint	nce is required, provide a time frame for maintenance co enance completion, re-inspect and certify the following:	mpletion: by next inspection
'l certify tha	at all recommended maintenance is complete and no add	litional action is necessary at this time."
	Signature of Inspector	Date



Virginia State Universit	y Inspection & Maintenance Checklist
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Date: 03/12/14 Type of BMP: Inic+ Filterra BMP ID #: 9			Inspector Name: America wenunt					
			Inspection Date: 03/19/14 Filterra Size: 7' × 9'					
		Initia	l Observations (Cire	cle Y/N)				
Standing Water?								
Damage to Box Structure?	Y	\mathbb{N}						
Damage to Grate?	Y	\odot						
Is Bypass Clear?	\odot	N						
			Waste					
Silt/Clay	Y	N						
Cups/Bags/Trash	\odot	N						
Leaves	\odot	N						
Other	Y	\odot						
			Media					
Depth from Top of Slab to Surface of Mulch (in.)	1.3		Note: If depth fro mulch is added ur				exceeds 14",	
			Mulch					
Netting in Need of Replacement?	Y	\mathbb{N}	Mulch Replacement or Addition Necessary?				nt Needed (in.):	
Stones in Need of Replacement?	Y		Type of Mulch to	Be Addec	or Re	placed?		
	-		Plantings					
Plant Information	#1	#2	the left facing the inlet and #2 repre	Note: #1 indicates the plant to the left facing the throat of the inlet and #2 represents the plant to the right facing the		#1	#2	
Height Above Grate? (ft.)	_5'		Health of plant(s)			Alive Dead	Alive/Dead	
Stem Diameter/Caliper? (in.)	2"		Damage to plant(s)?		YN	Y/N	
Width at Widest Point?	_4'		Plant(s) replaced		-	YN	Y/N	



Notes: Clan was	te, neplace	zmulch	
ertification: • no maintenance is required, certify the fo	bllowing:		
'l certify that the inspection is complete an		ary at this time."	
Signature o	of Inspector	Date	2
f maintenance is required, provide a time f Jpon maintenance completion, re-inspect	frame for maintenance co and certify the following:	mpletion: bynext i	nspection
'I certify that all recommended maintenand	ce is complete and no add	litional action is necessary at this	time."
Signature	of Inspector	Date	
Next inspection date:			



Virginia State Univers	ity Inspection	& Maintenance	Checklist
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Date: 03/18/14	Date: 03/19/14			Am	enia	wenunt	-	
Type of BMP: Inic+	Filter	ra	Inspection Date: 03/19/14 Filterra Size: 8'×14					
BMP ID #:								
Component			Comments:					
		Initia	l Observations (Cire	cle Y/N)				
Standing Water?	Y	\mathbb{N}						
Damage to Box Structure?	Y							
Damage to Grate?	Y	N						
Is Bypass Clear?	(\mathfrak{P})	N						
			Waste					
Silt/Clay	\bigcirc	N	all alo	ng 8	ton	د		
Cups/Bags/Trash	\odot	N						
Leaves	Ø	N						
Other	Y	\mathbb{N}						
			Media					
Depth from Top of Slab to Surface of Mulch (in.)	L.		Note: If depth from top of slab to surface of mulch exceeds 14", mulch is added until the depth of 14" is achieved.					
			Mulch					
Netting in Need of Replacement?	Y		Mulch Replacement or Addition Necessary?					
Stones in Need of Replacement?	Y		Type of Mulch to Be Added or Replaced?					
			Plantings					
Plant Information	#1	#2	Note: #1 indicates the plant to the left facing the throat of the inlet and #2 represents the plant to the right facing the throat of the inlet.			#1	#2	
Height Above Grate? (ft.)		9'	Health of plant(s)			Alive/Dead	Alive/Dead	
Stem Diameter/Caliper? (in.)	1.5 "	1.5"	Damage to plant(s)?		Y /	Y/ ®	
Width at Widest Point? (ft.)	4.5'	A.51	Plant(s) replaced	?		Y	Y/2	



lotes:	lan	waste		
ertification:				
no maintenance i		tify the following:		
no maintenance i		rtify the following: mplete and that no action is ne	ecessary at this time."	
f no maintenance i	ispection is co		ecessary at this time." Date	
no maintenance i certify that the ir	spection is con S equired, provid	mplete and that no action is ne ignature of Inspector	Date	tinspection
no maintenance i certify that the ir maintenance is re upon maintenance	equired, provid completion, re	mplete and that no action is ne ignature of Inspector de a time frame for maintenance e-inspect and certify the follow	Date	
f no maintenance i I certify that the ir f maintenance is re Jpon maintenance	equired, provid completion, re	mplete and that no action is ne ignature of Inspector de a time frame for maintenance e-inspect and certify the follow	Date ce completion: by Nex	
l certify that the ir f maintenance is re Jpon maintenance	equired, provid completion, re	mplete and that no action is ne ignature of Inspector de a time frame for maintenance e-inspect and certify the follow	Date ce completion: by Nex	
f no maintenance i 'I certify that the ir f maintenance is re Jpon maintenance	equired, provid completion, re commended m	mplete and that no action is ne ignature of Inspector de a time frame for maintenanc e-inspect and certify the follow naintenance is complete and no	Date	



Virginia State Universit	y Inspection & Maintenance Checklist	
Billing offerte offerter	, more dettern de menterne en e	

Date: 03/18/14			Inspector Name:	Am	evic	wehunt		
Type of BMP:	Filter	ra	Inspection Date: 03118 114					
BMP ID #:			Filterra Size:	5' ×	13			
Component			Comments:					
		Initia	l Observations (Circ	cle Y/N)				
Standing Water?	Y	\mathbb{N}						
Damage to Box Structure?	Y	\otimes						
Damage to Grate?	Y							
Is Bypass Clear?	Ø	N						
			Waste					
Silt/Clay	Ø	N						
Cups/Bags/Trash	\bigcirc	N						
Leaves	0	N						
Other	Y							
			Media					
Depth from Top of Slab to Surface of Mulch (in.)	8'		Note: If depth fro mulch is added ur	•		to surface of mulch f 14" is achieved.	n exceeds 14",	
			Mulch					
Netting in Need of Replacement?	Y	\mathbb{N}	Mulch Replacement or Addition Necessary?					
Stones in Need of Replacement?	Y		Type of Mulch to Be Added or Replaced?					
	-		Plantings					
Plant Information	#1	#2	Note: #1 indicates the plant to the left facing the throat of the inlet and #2 represents the plant to the right facing the throat of the inlet.		#1	#2		
Height Above Grate? (ft.)	6'	6'	Health of plant(s)			Alive/Dead	Alive/Dead	
Stem Diameter/Caliper? (in.)	1.5	1.5 "	Damage to plant(s)?	1	Y/	Y	



Notes:	ean waste			
1				
				_
If no maintenance	is required, certify the following: nspection is complete and that no		this time."	
If no maintenance			this time."	
		o action is necessary at	this time." Date	
If no maintenance "I certify that the i If maintenance is r	nspection is complete and that n	no action is necessary at ctor or maintenance complet	Date	ctor
If no maintenance "I certify that the i "I maintenance is r Upon maintenance	nspection is complete and that no Signature of Inspect equired, provide a time frame fo e completion, re-inspect and cert	no action is necessary at ctor or maintenance complet tify the following:	Date	ctio
If no maintenance "I certify that the i —— If maintenance is r Upon maintenance	nspection is complete and that no Signature of Inspect equired, provide a time frame fo e completion, re-inspect and cert	no action is necessary at ctor or maintenance complet tify the following:	Date tion: by next inspe	ction
If no maintenance "I certify that the i —— If maintenance is r Upon maintenance	nspection is complete and that no Signature of Inspect equired, provide a time frame fo e completion, re-inspect and cert	to action is necessary at ctor maintenance complete tify the following:	Date tion: by next inspe	ction



nce Checklist	ecklist
	ince ch

Date: 03/18/14			Inspector Name:	An	nevi	a wehun	+	
Type of BMP: Inic+	Filterr	a	Inspection Date: 02/18/14					
BMP ID #: 12			Filterra Size: 5'* 역'					
Component			Comments:					
		Initia	l Observations (Circ	cie Y/N)				
Standing Water?	Y	\mathbb{R}	-					
Damage to Box Structure?	Y	\mathbb{N}						
Damage to Grate?	Y	\mathbb{N}						
Is Bypass Clear?	Ø	N						
			Waste					
Silt/Clay	Ø	Ν						
Cups/Bags/Trash	\heartsuit	N						
Leaves	Ø							
Other	Y	Ν						
			Media					
Depth from Top of Slab to Surface of Mulch (in.)	1.5	,	Note: If depth fro mulch is added ur			o surface of mulch f 14" is achieved.	exceeds 14",	
			Mulch					
Netting in Need of Replacement?	Y	\mathbb{N}	Mulch Replacement or Addition Necessary?	Replacement or Addition or Replacement Needed (nt Needed (in.):	
Stones in Need of Replacement?	Y		Type of Mulch to	Be Addeo	d or Re	eplaced?		
			Plantings					
Plant Information	#1	#2	Note: #1 indicates the plant to the left facing the throat of the inlet and #2 represents the plant to the right facing the throat of the inlet.		#1	#2		
Height Above Grate? (ft.)	5'		Health of plant(s)			Alive Dead	Alive/Dead	
						× O		
Stem Diameter/Caliper? (in.)	1.5"		Damage to plant(s)?		Y	Y/N	



Alan	n waste, neplace	mulch	
	lired, certify the following:		
no maintenance is requ	uired, certify the following: ion is complete and that no action is neces	ssary at this time."	
f no maintenance is requ		ssary at this time." Date	
f no maintenance is requ I certify that the inspecti	ion is complete and that no action is nece	Date	aspectur
f no maintenance is requ I certify that the inspecti ———— f maintenance is required Jpon maintenance comp	ion is complete and that no action is neces Signature of Inspector d, provide a time frame for maintenance of	Date completion: by next W	
'I certify that the inspecti f maintenance is required Jpon maintenance comp	ion is complete and that no action is neces Signature of Inspector Id, provide a time frame for maintenance of pletion, re-inspect and certify the following	Date completion: by next W	



Virginia State University Inspection & Maint	enance Checklist
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Date: 03/19/14	ate:_03/19/14			Inspector Name: Ameria wenunt				
Type of BMP:R	i (terro	2	Inspection Date: 03/10/14 Filterra Size: 5' × 7'					
BMP ID #: 13								
Component			Comments:					
		Initia	l Observations (Cire	cle Y/N)				
Standing Water?	Y	\mathbb{N}						
Damage to Box Structure?	Y	N						
Damage to Grate?	Y					-		
ls Bypass Clear?	\bigotimes	N						
			Waste					
Silt/Clay	$\langle \! \! \rangle$	N						
Cups/Bags/Trash	\odot	N						
Leaves	\odot	N						
Other	Y	\mathbb{N}						
			Media					
Depth from Top of Slab to Surface of Mulch (in.)	1.1	·	Note: If depth from top of slab to surface of mulch exceeds 14", mulch is added until the depth of 14" is achieved.				exceeds 14",	
			Mulch					
Netting in Need of Replacement?	Y	$\overline{\mathbb{N}}$	Mulch Replacement or Addition Necessary?				nt Needed (in.):	
Stones in Need of Replacement?	Y		Type of Mulch to Be Added or Replaced?					
			Plantings					
Plant Information	#1	#2	Note: #1 indicates the plant to the left facing the throat of the inlet and #2 represents the plant to the right facing the throat of the inlet.		#1	#2		
Height Above Grate? (ft.)	<u>(</u>	;	Health of plant(s)			Alive Dead	Alive/Dead	
			Damage to plant(s)			# (Y)N	Y/N	
Stem Diameter/Caliper? (in.)	1.5"		Damage to plant	5):		* 01	1711	



* tree n it while * Clean	parking waste	be p	runed	40	avcið	cars	from	dan aging
ertification:								
no maintenance				ction is ne	ecessary at 1	his time."		
no maintenance	nspection is com	nplete and			ecessary at 1	his time." Date		
no maintenance certify that the in	nspection is com Sig	nplete and gnature o e a time fr	d that no ad f Inspector	aintenan	ce completi	Date		inspectiv
ertification: no maintenance l certify that the in maintenance is re pon maintenance	nspection is com Sig equired, provide completion, re	nplete and gnature o e a time fr -inspect a	d that no ad f Inspector rame for m ind certify f	aintenan the follov	ce completi ving:	Date	next	



Detention, Retention, & Impoundment BMPs

Date: 63 127/14			ction & Maintenance Checklist Inspector Name: <u>Americ wchunt</u> Inspection Date: <u>03127114</u>					
3MP ID #:A			Type of BMP: Ennances Extended Detention D					
Component:	Yes	No	N/A	Comments:				
. Embankment	and the second	131	and and					
А. Тор	20.5	- Person	1. A.C.					
1. Visual settlement	1	\checkmark						
2. Misalignment		~						
3. Cracking		\checkmark						
B. Upstream Slope		Section 2	11.6 11.07	· follow up with small spot next inspection				
1. Erosion		\checkmark		next inspection				
2. Adequate groundcover	\checkmark			- ground hog living under				
3. Trees, shrubs, or other vegetation		\checkmark		viser top				
4. Cracks, settlements, or bulges		1						
5. Rodent holes	\checkmark	1						
C. Downstream Slope	1070	1 - 100	10					
1. Erosion		\checkmark						
2. Adequate groundcover	1							
3. Trees, shrubs, or other vegetation		~						
4. Cracks, settlements, or bulges		/						
5. Rodent holes		\checkmark						
E. Drainage/seepage control								
1. Internal drains flowing		~						
2. Seepage at toe		\checkmark						
Emergency Spillway	10 110		1-1-1					
1. Eroding or backcutting			1					
2. Obstruction								


Component:	Yes	No	N/A	Comments:
3. Leaking			~	
4. Operational			~	
III. Principal Spillway Barrel			a letter	
1. Seepage into pipe		\checkmark		
2. Debris present				
 Displaced or offset joints 			·	
W. Outlet Protection/Stilling Basin	125	S.A.		
1. Obstruction		1		
2. Adequate riprap	\checkmark	978t		
3. Undercutting at the outlet		~		
4. Outlet channel scour		~		
V. Internal Basin Area	CREEK.	S. See	TELS -	
A. Low Flow Channel*				
1. Erosion		~		
2. Adequate vegetation	~			
3. Obstruction		~		
B. Basin Bottom & Side Slopes				· small amt · of trash cloating
1. Erosion		1		cloarning
2. Adequate stabilization	1			
3. Sediment accumulation		1		
4. Floating debris	1			
5. High water marks		~		
6. Shoreline protection	\checkmark			
C. Inflow Channels/Pipes				
1. Erosion	1			_
2. Adequate stabilization	\checkmark			



Component:	Yes	No	N/A	Comments:
3. Undercutting		\checkmark		
4. Obstruction		~		
D. Sediment Forebay				
1. Sediment accumulation			~	
2. Stable overflow into basin			~	
E. Upland Landscaping			~	
F. Aquatic Landscaping			~	

Replaced in the upcoming year. Continue to monitor groundnoghole at reser outlet to ensure that it doesn't become a concern prior to facility replacement

Certification:	
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If no maintenance is required, certify the following:

"I certify that the inspection is complete and that no action is necessary at this time."

Signature of Inspector

melia wehun

Date

If maintenance is required, provide a time frame for maintenance completion:_____ Upon maintenance completion, re-inspect and certify the following:

"I certify that all recommended maintenance is complete and no additional action is necessary at this time."

Signature of Inspector

Date

Next inspection date:



Detention, Retention, & Impoundment BMPs

Date: 03/27/14_		2	Inspector Name: America wohunt Inspection Date: 03/27/14 Type of BMP: Extended Dotention Basin		
BMP ID #: 29					
Component:	Yes	No	N/A	Comments:	
. Embankment	医肌肉		La la contrata		
А. Тор		Selvin.			
1. Visual settlement		~			
2. Misalignment		~			
3. Cracking		\checkmark			
B. Upstream Slope	14-17			+we large settlements	
1. Erosion	~			one of which may have	
2. Adequate groundcover	1			been caused by rodonks	
3. Trees, shrubs, or other vegetation		1]	
 Cracks, settlements, or bulges 		1			
5. Rodent holes	\checkmark				
C. Downstream Slope	100				
1. Erosion		\checkmark			
2. Adequate groundcover	~				
3. Trees, shrubs, or other vegetation		~			
4. Cracks, settlements, or bulges		~		7	
5. Rodent holes		\checkmark			
E. Drainage/seepage control					
 Internal drains flowing 	-	~			
2. Seepage at toe		~			
I. Emergency Spillway	A AL	1 Alter	and the state		
1. Eroding or backcutting			~]	
2. Obstruction			1]	



Component:	Yes	No	N/A	Comments:
3. Leaking			5	
4. Operational			V	
II. Principal Spillway Barrel	1000			
1. Seepage into pipe		\checkmark		
2. Debris present		~		
3. Displaced or offset joints		~		
V. Outlet Protection/Stilling Basin	13	PW	- Heliner	
1. Obstruction		~		
2. Adequate riprap	~			
 Undercutting at the outlet 		\checkmark		
4. Outlet channel scour		~		
V. Internal Basin Area	C AT		A STREET	
A. Low Flow Channel*				
1. Erosion		~		
2. Adequate vegetation	~			
3. Obstruction		~		
B. Basin Bottom & Side Slopes				· lots of trash
1. Erosion		~		
2. Adequate stabilization	~			
3. Sediment accumulation		~		
4. Floating debris		~		
5. High water marks		~		
6. Shoreline protection		1		
C. Inflow Channels/Pipes		0.1		- vittle bit of undercuting - oil sheet at inset
1. Erosion	\checkmark			. oil sheet at inset
2. Adequate stabilization	~			



Component:	Yes	No	N/A	Comments:
3. Undercutting	\checkmark			
4. Obstruction		\checkmark		
D. Sediment Forebay		115	1	
1. Sediment accumulation			V	
2. Stable overflow into basin			~	
E. Upland Landscaping			V	
F. Aquatic Landscaping			1	
*Only applies to Extended Dete	ntion Facilitie	S	0	

Notes: Clean out trach and Stabilize side Slopes where bare. Check upstream oil/water separator to see if it needs to be pumped out.

Certification:	
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	ired, certify the following:	
r certify that the inspect	on is complete and that no action is necessar Signature of Inspector	Date
-		
	d, provide a time frame for maintenance com letion, re-inspect and certify the following	pletion: by next inspection
"I certify that all recomme	ended maintenance is complete and no additi	ional action is necessary at this time."
	Signature of Inspector	Date
Next inspection date:		



Detention, Retention, & Impoundment BMPs

Date: 03/27/14			Inspector Name: America wenunt			
			Type of BMP: Retendon Basin III			
BMP ID #: 00 30		-				
Component:	Yes	No	N/A	Comments:		
I. Embankment						
А. Тор						
1. Visual settlement		~				
2. Misalignment		~				
3. Cracking		\checkmark				
B. Upstream Slope				· Recommend re-setding		
1. Erosion		\checkmark		after brushlovergrown is removed		
2. Adequate groundcover	\checkmark					
3. Trees, shrubs, or other vegetation	ees, shrubs, or vegetation V		- Remove freeslovergrowh - Crown US & DS dam Face			
 Cracks, settlements, or bulges 		5	1	Lrow US 4 V. Contraction		
5. Rodent holes		\checkmark				
C. Downstream Slope				· Recommend re-seeding acter brushlovergrown		
1. Erosion		1		is removed		
2. Adequate groundcover	~					
3. Trees, shrubs, or other vegetation	\checkmark			· econore trees fovergrown		
4. Cracks, settlements, or bulges		~		from uset as stope		
5. Rodent holes		V				
E. Drainage/seepage control				•		
1. Internal drains flowing	\checkmark					
2. Seepage at toe						
II. Emergency Spillway						
1. Eroding or backcutting		~				
2. Obstruction		1				



Component:	Yes	No	N/A	Comments:
3. Leaking		1		
4. Operational		~		
III. Principal Spillway Barrel				
1. Seepage into pipe		\checkmark		
2. Debris present		1		
3. Displaced or offset joints		~		
IV. Outlet Protection/Stilling Basin				
1. Obstruction		~		
2. Adequate riprap	~			
3. Undercutting at the outlet		~		_
4. Outlet channel scour		~		
V. Internal Basin Area				
A. Low Flow Channel*				
1. Erosion		\checkmark)	
2. Adequate vegetation	~			
3. Obstruction		~		
B. Basin Bottom & Side Slopes				· wet pond applies to side slopes only
1. Erosion		1		
2. Adequate stabilization	\checkmark			• trash on a awaic bench
3. Sediment accumulation		\checkmark		
4. Floating debris	1			
5. High water marks	1			
6. Shoreline protection			~	
C. Inflow Channels/Pipes				
 Erosion Adequate stabilization 				-



Component:	Yes	No	N/A	Comments;
3. Undercutting				
4. Obstruction		1		
D. Sediment Forebay				· none visible sediment
1. Sediment accumulation		1		
2. Stable overflow into basin	~			
E. Upland Landscaping	\checkmark			
F. Aquatic Landscaping	1			
*Only applies to Extended Dete	ention Facilitie	s		

Notes: fefer	to comments	
	quired, certify the following: ction is complete and that no action is necessa Signature of Inspector	ry at this time." Date
If maintenance is requi Upon maintenance con	red, provide a time frame for maintenance con npletion, re-inspect and certify the following:	npletion: by next inspection
"I certify that all recom	mended maintenance is complete and no addi	tional action is necessary at this time."
	Signature of Inspector	Date

Next inspection date:



Intermittent Sand Filter

Date: 03/27/14	Inspector Name: Ameria wehunt					
		Inspection	Date:	03127114		
BMP ID #: 00 3 \		Type of BA	AP: De	neware sand Filter		
	Yes	No	N/A	Comments:		
I. Debris Cleanout						
A. Contributing areas clean of debris	/					
B. Filtration Facility clean of debris		V				
C. Inlets and outlets clear of debris	\checkmark					
II. Vegetation in Contributing Drainage	Area					
A. Stabilized	~					
B. Active evidence of erosion		1				
C. Area mowed and clippings removed	V			- (
III. Oil & Grease						
A. Evidence of filter surface clogging		\checkmark				
B. Activities in drainage area to minimize oil & grease entry	1					
IV. Water retention where required						
A. Water holding chambers at normal pool	/					
B. Evidence of leakage		1				
V. Sediment Deposition						
A. Filtration chambers clean of sediment		1				
B. Water chambers not more than ½ full of sediment		V				
VI. Structural Components	-					
A. Evidence of structural deterioration		11				
B. Grates are in good condition			/			



	Yes	No	N/A	Comments:
C. Evidence of spalling or cracking of structural parts		\checkmark		
VII. Outlets/Overflow Spillway				
A. Obstruction		\checkmark		
B. Adequate riprap (If applicable)			~	
C. Undercutting at the outlet			\checkmark	
D. Outlet channel scour			\checkmark	
VIII. Overall Function of Facility				
A. Evidence of flow		~		
B. Noticeable odors		~		

Notes: Have sedimentation champer pumped out, remove trash and sediment, and refill with clean woder up to normal pool. Clean trash out of sand filter champer

Certification: If no maintenance is require	d, certify the following:	
"I certify that the inspection	is complete and that no action is necessary at thi	is time."
-	Signature of Inspector	Date
If maintenance is required, p	provide a time frame for maintenance completion	by next inspection
maintenance completion, re	-inspect and certify the following:	
• •	-inspect and certify the following: led maintenance is complete and no additional a	ction is necessary at this time."
• •		ction is necessary at this time." Date



StormFilter BMPs

Date: 04/17/1	4			Chip wyatt Inspector Name: <u>Amelia wehunt</u> Inspection Date: <u>04/17/14</u>			
Conc		و ہ	wed				
BMP ID #:2	2			Type of BMP: Maintenance required?		Contech stormailter	
Component:	Yes	No	Conditions When Maintenance is Needed	Yes	No	Comments:	
I. Below Ground Vaul	t		TITLE DUM.				
Sediment accumulation top of cartridge		\checkmark	Sediment depth exceeds 0.25 inches		/		
Sediment accumulation in vault	\checkmark		Sediment depth exceeds 4 inches in the first chamber	~		0.7'sediment	
Submerged cartridges	\checkmark		More than 4" of static water in the cartridge bay 24 hours after last rainfall event	1		0.7'sediment 1'water	
Trash/debris accumulation		\checkmark	Trash and debris accumulated on compost filter bed		/		
Sediment in drain pipes or cleanouts	174	\checkmark	Drain pipes and/or clean outs are full of sediment and/or debris		1		
Damaged pipes		\checkmark	Any part of any pipe crushed or damaged due to corrosion and/or settlement		\checkmark		
Access cover damaged/not working		/	Cover cannot be opened; one person cannot open the cover using normal lifting pressure; corrosion/deformation of cover		\checkmark		
Vault structure includes cracks in wall or bottom; damage to the frame and/or top slab		\checkmark	Cracks wider than ½ inch or evidence of soil particles entering the structure through cracks; determination that the vault is not structurally sound		\checkmark		
			Cracks wider than ½ inch at the joint of any inlet/outlet pipeor evidence of soil particles entering through the cracks		\checkmark		
Baffles	N	A	Baffles corroding, cracking, warping, and/or showing signs of failure		/	-	
Access ladder damaged		\checkmark	Ladder is corroded or deteriorated, not functioning properly, not securely secured to the structure wall and/or missing rungs; cracks; misalignment		~		
II. Below Ground Cart	ridge T	ype					
Filter Media	\checkmark		Drawdown of water theough the media takes longer than one hour and/or overflow occurs frequently		~	zpq media	
Short Circuiting		\checkmark	Flows do no properly enter filter cartridges		V		



Kep	place filter(s)	
	l l	
-		
	is required, certify the following:	
f no maintenance	is required, certify the following: nspection is complete and that no action is necessary a	t this time."
f no maintenance	nspection is complete and that no action is necessary a	
f no maintenance		t this time."
f no maintenance 'I certify that the ir f maintenance is n	nspection is complete and that no action is necessary a Signature of Inspector equired, provide a time frame for maintenance comple	Date
f no maintenance 'I certify that the ir f maintenance is n Jpon maintenance	nspection is complete and that no action is necessary a Signature of Inspector equired, provide a time frame for maintenance comple e completion, re-inspect and certify the following:	Date etion: by next inspection
f no maintenance 'I certify that the ir f maintenance is n Jpon maintenance	nspection is complete and that no action is necessary a Signature of Inspector equired, provide a time frame for maintenance comple	Date etion: by next inspection
If no maintenance "I certify that the ir If maintenance is ru Upon maintenance	nspection is complete and that no action is necessary a Signature of Inspector equired, provide a time frame for maintenance comple e completion, re-inspect and certify the following:	Date etion: by next inspection
"I certify that the in If maintenance is n Upon maintenance	nspection is complete and that no action is necessary a Signature of Inspector equired, provide a time frame for maintenance comple e completion, re-inspect and certify the following:	Date etion: by next inspection
If no maintenance "I certify that the ir If maintenance is ru Upon maintenance	nspection is complete and that no action is necessary a Signature of Inspector equired, provide a time frame for maintenance comple e completion, re-inspect and certify the following: ecommended maintenance is complete and no addition	Date etion: by next inspection al action is necessary at this time."



StormFilter BMPs

Date: 04 / 17 / 14	_			Inspec	tor Nam	Chip Wyatt le: Ameria Wehunt	
gras	ss			Inspection Date: 04/17/14			
BMP ID #: 23				Type of BMP: Maintenance required?		contech stormfilter	
Component:	Yes	No	Conditions When Maintenance is Needed	Yes	No	Comments:	
I. Below Ground Vaul	t						
Sediment accumulation top of cartridge		1	Sediment depth exceeds 0.25 inches		V		
Sediment accumulation in vault	\checkmark		Sediment depth exceeds 4 inches in the first chamber	~		>0.5'	
Submerged cartridges		\checkmark	More than 4" of static water in the cartridge bay 24 hours after last rainfall event		V		
Trash/debris accumulation		V	Trash and debris accumulated on compost filter bed		1		
Sediment in drain pipes or cleanouts	\checkmark		Drain pipes and/or clean outs are full of sediment and/or debris	V			
Damaged pipes		\checkmark	Any part of any pipe crushed or damaged due to corrosion and/or settlement		V		
Access cover damaged/not working		\checkmark	Cover cannot be opened; one person cannot open the cover using normal lifting pressure; corrosion/deformation of cover		/		
Vault structure includes cracks in wall or bottom; damage to the frame and/or top slab		1	Cracks wider than ½ inch or evidence of soil particles entering the structure through cracks; determination that the vault is not structurally sound		V		
			Cracks wider than ½ inch at the joint of any inlet/outlet pipeor evidence of soil particles entering through the cracks		V		
Baffles	R	A	Baffles corroding, cracking, warping, and/or showing signs of failure		1		
Access ladder damaged		1	Ladder is corroded or deteriorated, not functioning properly, not securely secured to the structure wall and/or missing rungs; cracks; misalignment		/		
II. Below Ground Cart	ridge T	уре					
Filter Media		1	Drawdown of water theough the media takes longer than one hour and/or overflow occurs frequently		1	209	
Short Circuiting		\checkmark	Flows do no properly enter filter cartridges		V		



	Replace Filter(s) clean outlet pi	pe
ertification:		
f no maintenan	nce is required, certify the following:	t this time "
f no maintenan	nce is required, certify the following: ne inspection is complete and that no action is necessary a	t this time."
f no maintenan		t this time."
f no maintenan 'I certify that th f maintenance	ne inspection is complete and that no action is necessary a	Date
f no maintenan 'I certify that th If maintenance Upon maintena	ne inspection is complete and that no action is necessary a Signature of Inspector is required, provide a time frame for maintenance comple	tion: by next inspection
f no maintenan 'I certify that th If maintenance Upon maintena	ne inspection is complete and that no action is necessary a Signature of Inspector is required, provide a time frame for maintenance comple ince completion, re-inspect and certify the following:	tion: by next inspection
"I certify that th If maintenance Upon maintena	ne inspection is complete and that no action is necessary a Signature of Inspector is required, provide a time frame for maintenance comple ince completion, re-inspect and certify the following:	tion: by next inspection



Sorbtive Filter BMPs

Date: 03/27/14		_		Inspector Name: Amelia (Johnst			
				Inspection Date: 03127114			
вмр ID #: 58 32	Type of BMP: <u>Sorbive</u> Filter 2C Maintenance required?						
Component:	Yes	No	Depth Measurements (If Applicable)	Yes	No	Comments:	
The access manhole or access doors are functioning properly and are sturcturally sound	1			T	Ч		
Sediment and oil are present (provide depths)	~		1.4		2		
Floatable pollutant accumulation is present in the Pre-treatment Bay		5			N	minimal leaves	
The Cartrdge Bay is visually inspected for sediment depth (provide depth)*(If sediment depth is greater than 6 inches, maintenance is required	1		t ^{v(}		N		
Proper draindown is occurring in the Cartridge Bay *(If at least 40 hours of dry weather have elapsed, since the most recent runoff event and the Bay contains more than 3 inches of water above the sediment layer, the Sorbtive BRICKs required cleaning or replacement	~				~		
The internal components show no signs of damage	1			Au	1	·	

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Notes:	
	11 (m)
Certification:	
If no maintenance is required, certify the following: "I certify that the inspection is complete and that no action is necessary at this time.	
Climelia Wehunt	3/27/14
Signature of Inspector	Date
If maintenance is required, provide a time frame for maintenance completion:	
Upon maintenance completion, re-inspect and certify the following:	
"I certify that all recommended maintenance is complete and no additional action is	necessary at this time."
Signature of Inspector	Date
Next inspection date:	



Sorbtive Filter BMPs

Virginia State University Inspection & Maintenance Checklist Date: 03/2714 Inspector Name: Ameria wehunt Inspection Date: 03/27/14 6 33 sorbfive Filter 1c BMP ID #: Type of BMP: Maintenance required? **Depth Measurements** Component: Yes No Yes No Comments: (If Applicable) \checkmark The access manhole or access doors \checkmark Ò

are functioning properly and are sturcturally sound Sediment and oil are present (provide \checkmark depths) Floatable pollutant accumulation is 1 present in the Pre-treatment Bay The Cartrdge Bay is visually inspected for sediment depth (provide depth)*(If \checkmark sediment depth is greater than 6 inches, maintenance is required Proper draindown is occurring in the Cartridge Bay *(If at least 40 hours of dry weather have elapsed, since the A most recent runoff event and the Bay contains more than 3 inches of water V above the sediment layer, the Sorbtive BRICKs required cleaning or replacement The internal components show no signs

of damage

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otes:		
ertification:		
no maintenance is required, certify the following:		
certify that the inspection is complete and that no action is necessary at t	his time."	
0 1 1	2100111	
amelia Wehunk	- 2131114	
Signature of Inspector	Date	
maintenance is required, provide a time frame for maintenance completion		
maintenance is required, provide a time frame for maintenance completion	201	
pon maintenance completion, re-inspect and certify the following:	on:	
pon maintenance completion, re-inspect and certify the following:		-
pon maintenance completion, re-inspect and certify the following: certify that all recommended maintenance is complete and no additional		
pon maintenance completion, re-inspect and certify the following:		
pon maintenance completion, re-inspect and certify the following: certify that all recommended maintenance is complete and no additional	action is necessary at this time."	
pon maintenance completion, re-inspect and certify the following:		
pon maintenance completion, re-inspect and certify the following: certify that all recommended maintenance is complete and no additional	action is necessary at this time."	
pon maintenance completion, re-inspect and certify the following: certify that all recommended maintenance is complete and no additional	action is necessary at this time."	



Sorbtive Filter BMPs

Date: 03127114				Inspect	or Nam	ne: America wemant	
				Inspect	ion Dat	te: 03/27/14	
BMP ID #:34					Type of BMP: Sorbfive Filter 10 Maintenance required?		
Component:	Yes	No	Depth Measurements (If Applicable)	Yes	No	Comments:	
The access manhole or access doors are functioning properly and are sturcturally sound	~			B 81	/		
Sediment and oil are present (provide depths)	J		L''		\checkmark		
Floatable pollutant accumulation is present in the Pre-treatment Bay	1				J	minimal some reaves	
The Cartrdge Bay is visually inspected for sediment depth (provide depth)*(If sediment depth is greater than 6 inches, maintenance is required	~		v ⁱ L		\checkmark		
Proper draindown is occurring in the Cartridge Bay *(If at least 40 hours of dry weather have elapsed, since the most recent runoff event and the Bay contains more than 3 inches of water above the sediment layer, the Sorbtive BRICKs required cleaning or replacement	~	ø			~		
The internal components show no signs of damage							

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Notes:

Certification: If no maintenance is required, certify the following:	
"I certify that the inspection is complete and that no action is necessary at this time."	
Signature of Inspector Date	
If maintenance is required, provide a time frame for maintenance completion: Upon maintenance completion, re-inspect and certify the following:	
"I certify that all recommended maintenance is complete and no additional action is necessary at this time."	
Signature of Inspector Date	
Next inspection date:	



Underground Detention Systems (Water Quantity)

Date: 03 127 /14		Inspector Name: Amelia wehunt			
BMP ID #: 15		Inspection Date: 03 127 / 14			
		Type of BMP:	Type of BMP: Underground storage vault		
Inspection Finding:	Y/N	Maintenance Required Y/N	Comments:		
I. Internal Storage Area			STREET WALKS AND ST		
A. Sediment present?	\checkmark	N	< 4", inlets / artlets clear		
B. Trash/debris present?	Y	N	minimal		
C. Separation of joints, cracks, breaks, or deteriorization of strucuture?	N	N			
D. Algal growth present?	N	N			
E. Evidence of seepage, leakage, or rust?	N	N			
F. Evidence of pollutants?	N	N			
		iniet & (Dutlet Piping		
A. Inspection manhole funtioning properly?	Y	N			
B. Clogging of inflow pipes?	Ч	N			



Inspection Finding:	Y/N	Maintenance Required Y/N	Comments:
C. Clogging of outflow pipes?	2	N	
D. Obstruction?	Ч	2	
E. Adequate riprap (lf applicable)?	Y	Ч	some trachidebrie present but riprap is adequate
F. Undercutting at the outlet?	N	N ALON	
G. Outlet channel scour?	(SDA N	N BODD	

Continue to clean trash as part of voutine maintenance Notes:

Certification	

If no maintenance is required, certify the following:

"I certify that the inspection is complete and that no action is necessary at this time."

Signature of Inspector

Date 3

molia Wehen

If maintenance is required, provide a time frame for maintenance completion: Upon maintenance completion, re-inspect and certify the following:

"I certify that all recommended maintenance is complete and no additional action is necessary at this time."

Signature of Inspector

Date

Next inspection date:



Underground Detention Systems (Water Quantity)

Date: 03/27/14		Inspector Name: America wahunt			
		Inspection Date: 03127/14			
BMP ID #: 24		Type of BMP:	Underground inrigation valuet		
Inspection Finding:	Y/N	Maintenance Required Y/N	Comments:		
I. Internal Storage Area	10.0		is bartless to an element		
A. Sediment present?	2	Ν			
B. Trash/debris present?	N	N			
C. Separation of joints, cracks, breaks, or deteriorization of strucuture?	2	N			
D. Algal growth present?	N	N			
E. Evidence of seepage, leakage, or rust?	7	N			
F. Evidence of pollutants?	N	2			
		iniet & (Dutlet Piping		
A. Inspection manhole funtioning properly?	Ч	N			
B. Clogging of inflow pipes?	7	N			



Inspection Finding:	Y/N	Maintenance Required Y/N	Comments:
C. Clogging of outflow pipes?	NIA		
D. Obstruction?	NIA	NIA	
E. Adequate riprap (If applicable)?	NIA	NIA	
F. Undercutting at the outlet?	NIA	NIA	
G. Outlet channel scour?	NIA	NIA	

Notes: Floats freely operating Visible inlet/outlet pipes clear

Certification:

If no maintenance is required, certify the following:

"I certify that the inspection is complete and that no action is necessary at this time."

Signature of Inspector

3/2

Date

molia Wehun

If maintenance is required, provide a time frame for maintenance completion: Upon maintenance completion, re-inspect and certify the following:

"I certify that all recommended maintenance is complete and no additional action is necessary at this time."

Signature of Inspector

Next inspection date:_____



Underground Detention Systems (Water Quantity)

Date: 02/7.71 14		Inspector Name: Amaria we hunt				
BMP ID #: 25		Inspection Date: 03127114				
		Type of BMP:	underground	Detention		
Inspection Finding:	Y/N	Maintenance Required Y/N	Comments:			
I. Internal Storage Area	1. 6					
A. Sediment present?	4	u u	1/s "	upper end 5-10" of sodiment		
B. Trash/debris present?	Y	м	very little			
C. Separation of joints, cracks, breaks, or deteriorization of strucuture?	ч	ч				
D. Algal growth present?	2	N				
E. Evidence of seepage, leakage, or rust?	2	4				
F. Evidence of pollutants?	N	И				
	-4-1	iniet &	Outlet Piping	and a second second		
A. Inspection manhole funtioning properly?	Y	й				
B. Clogging of inflow pipes?	Ч	N				



Inspection Finding:	Y/N	Maintenance Required Y/N	Comments:
C. Clogging of outflow pipes?	4	N	
D. Obstruction?	Ч	N	
E. Adequate riprap (If applicable)?	NIP	NIA	
F. Undercutting at the outlet?	NIA	NIA	
G. Outlet channel scour?	NIA	NIA	

Notes:

Certification:

If no maintenance is required, certify the following:

"I certify that the inspection is complete and that no action is necessary at this time."

Signature of inspector

Date 31 2

moliallehunt

If maintenance is required, provide a time frame for maintenance completion:_ Upon maintenance completion, re-inspect and certify the following:

"I certify that all recommended maintenance is complete and no additional action is necessary at this time."

Signature of Inspector

Date

Next inspection date:



Underground Detention Systems (Water Quantity)

Date: 03/27/14		Inspector Name: America Webunt				
		Inspection Date	: 03127114			
BMP ID #: 26		Type of BMP:	Type of BMP: <u>Underground</u> Detention			
Inspection Finding:	Y/N	Maintenance Required Y/N	Comments:			
I. Internal Storage Area	1.15		やなまれの使用したないです			
A. Sediment present?	7	N				
B. Trash/debris present?	Ч	N				
C. Separation of joints, cracks, breaks, or deteriorization of strucuture?	N	N				
D. Algal growth present?	2	Ч				
E. Evidence of seepage, leakage, or rust?	2	4				
F. Evidence of pollutants?	22	4				
	44	iniet & (Outlet Piping			
A. Inspection manhole funtioning properly?	Y	4				
B. Clogging of inflow pipes?	2	N				



Inspection Finding:	Y/N	Maintenance Required Y/N	Comments:
C. Clogging of outflow pipes?	Ч	N	
D. Obstruction?	N	4	
E. Adequate riprap (If applicable)?	NIA	NIA	
F. Undercutting at the outlet?	NA	NIA	
G. Outlet channel scour?	NA	NA	

Notes:
1401051

Certification:	vised section the following:	
	uired, certify the following:	
'l certify that the inspect	tion is complete and that no action is necessary at thi	s time."
	Signature of Inspector	Date
(IncliaWehunt	3127/14
Upon maintenance com	ed, provide a time frame for maintenance completion pletion, re-inspect and certify the following:	
Upon maintenance com		
Upon maintenance com	pletion, re-inspect and certify the following:	
Upon maintenance com	pletion, re-inspect and certify the following:	
Upon maintenance com	pletion, re-inspect and certify the following: nended maintenance is complete and no additional a	ction is necessary at this time."



Underground Detention Systems (Water Quantity)

Date: 03/27/14		Inspector Name: Ameria wehunt			
		Inspection Date: 03/27/14 Type of BMP: Underground Detention w/ sand Filters			
BMP ID #: 27					
Inspection Finding: Y/N		Maintenance Required Y/N	Comments:		
I. Internal Storage Area			Rena manda de calendar		
A. Sediment present?		N			
B. Trash/debris present?	N	N			
C. Separation of joints, cracks, breaks, or deteriorization of strucuture?	2	N	withe separation on concrete patch above pipe		
D. Algal growth present?	. Algal growth present?				
E. Evidence of seepage, leakage, or rust?					
F. Evidence of pollutants?	NB	7	LOTER E DET BET BE		
		iniet &	Outlet Piping		
A. Inspection manhole funtioning properly?	۲	2			
B. Clogging of inflow pipes?	Ч	2	with water on inflows		
Version 2014		so of the second	D D 1		



Inspection Finding:	Y/N	Maintenance Required Y/N	Comments:
C. Clogging of outflow pipes?	h Pa	N	
D. Obstruction?	N	N.	. .
E. Adequate riprap (If applicable)?	NIA	NIA	
F. Undercutting at the outlet?	NIA	NIA	
G. Outlet channel scour?	NIA	NLA	

Notes: Continue to monitor chamber conditions in fiture inspections

Certification:

If no maintenance is required, certify the following:

"I certify that the inspection is complete and that no action is necessary at this time."

Signature of Inspector

3/27

Date

Implea Wohin

If maintenance is required, provide a time frame for maintenance completion:__ Upon maintenance completion, re-inspect and certify the following:

"I certify that all recommended maintenance is complete and no additional action is necessary at this time."

Signature of Inspector

Date

Next inspection date:____



Underground Detention Systems (Water Quantity)

Date: 03/27/14		Inspector Name: America wehunt				
		Inspection Date: 03/27/14 Type of BMP: Underground Irrigation Vault				
BMP ID #: 28						
Inspection Finding: Y/N		Maintenance Required Y/N	Comments:			
I. Internal Storage Area						
A. Sediment present?	7	Ч				
B. Trash/debris present?	2	2				
C. Separation of joints, cracks, breaks, or deteriorization of strucuture?	1	2				
D. Algal growth present?	Ч	4				
E. Evidence of seepage, leakage, or rust?	7	2				
F. Evidence of pollutants?	Ч	Ч				
		inlet & (Dutlet Piping			
A. Inspection manhole funtioning properly?	Y	4				
B. Clogging of inflow pipes?	2	N				



Inspection Finding:	Y/N	Maintenance Required Y/N	e Comments:		
C. Clogging of outflow pipes?	2	4			
D. Obstruction?	7	Ч			
E. Adequate riprap (If applicable)?	NIA	414			
F. Undercutting at the outlet?	AIA	NIA			
G. Outlet channel scour?	MIM	NIA			

Notes:

Ce	rtif	fica	tti	on:

If no maintenance is required, certify the following:

"I certify that the inspection is complete and that no action is necessary at this time."

Signature of Inspector

	Jale	
3	27	11

melia Wenunt

If maintenance is required, provide a time frame for maintenance completion: Upon maintenance completion, re-inspect and certify the following:

"I certify that all recommended maintenance is complete and no additional action is necessary at this time."

Signature of Inspector

Next inspection date:

Appendix MCM 6

Department of Conservation & Recreation CONSERVING VIRGINIAS NATURAL & RECREATIONAL RESOURCES Department of Conservation and Recreation (DCR) By participating in this agreement and reporting fertilizer usage for the 2012 calendar year, accumulation of excess nutrients in ground water, a common source of drinking water. This certificate may be used to promote the company during the 2013 calendar year established by DCR in the Virginia Administrative Code §4 VAC 15-15-10 et. seq. James River Grounds Management Proper management of fertilizers on turf and landscape areas helps prevent the to recognize their voluntary participation in the Water Quality Agreement Program Also, excess nutrients in surface waters upset the natural balance needed for and their efforts to protect and improve Virginia's ground and surface waters. unless canceled by either party by written notification of the other party they have demonstrated a commitment to protecting Virginia's waters, while providing responsible lawn care service, by following the healthy and productive rivers, lakes, and streams in Virginia Virginia Nutrient Management Standards and Criteria This Certificate is presented to by the Department of Conservation & Recreation Nonpoint Pollution Prevention Richard F. Weeks, Jr. Division Director,

irginia Department of Ag P.O. Box 1163 CER FERTILIZI	Virginia Department of Agriculture and Consumer Services P.O. Box 1163, Richmond VA 23218 CERTIFICATION FERTILIZER APPLICATOR	not transferable Virginia Department of Agriculture and Consumer Services P.O. Box 1163, Richmond VA 23218 CERTIFICATION FERTILIZER APPLICATOR
	CERTIFICATION CFA-16213-26716	
EXPIRES 11/25/2017 Issued in accordance with applicatio	EXPIRES 11/25/2017 Issued in accordance with application duly executed by the party shown below	EXPIRES: CERTIFICATION: 11/25/2017 CFA-16213-26716
wno nas agreed to comply will all ap Pipp, William John 2916 Myster Macklin PO BOX 9408 Petersburg, VA 23806	applicable laws, rules, and regulations.	Pipp, William John 2916 Myster Macklin PO BOX 9408 Petersburg, VA 23806
Matthew J. Lohr COMMISSIONER	Larry M. Nichols AUTHORIZED REPRESENTATIVE	Larry M. Nichols AUTHORIZED REPRESENTATIVE

VIRGINIA DEPARTMENT OF AGRICULTURE AND CONSUMER SERVICES P O BOX 1163, RICHMOND VA 23218-1163	PESTICIDE APPLICATOR CERTIFICATE	COMMERCIAL Fee Paid Certificate Fee Paid	127922-C	Issued in accordance with application duly executed by the person shown below who has agreed to comply with all	PIPP 3S GROUP	INE
VIRGINIA DEPAF		01/29/2014	Expires 06/30/2015	Issued in accordance with applicable laws, rules and	WILLIAM J PIPP GCA SERVICES GROUP	208 SAGE LANE

UKG, VA 23805 PETER

Matthew J. Lohr Commissioner



Liza J. Fleeson Authorized Representative