# Virginia State University MS-4 Permit: VAR040119 July 1, 2014 - June 30, 2015 Annual Report



Prepared for

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

October 1, 2015

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



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# 1.0 Background Information

(1) Name and permit number of the program; (2) 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 two of the 2013-2018 General Permit term. This annual report covers a time period from approximately July 2014 June 2015.
- Modifications to any operator's department's roles and responsibilities.
   The operator's roles and responsibilities have been provided in the 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. One outfall was removed and the associated discharge was rerouted to the next outfall in the system.
- 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.

Jonathan Taylor

**Director for Capital Outlay** 

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

The 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**

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.

VSU conducted the following education and outreach activities for each of the three highpriority water quality issues described in the 2013-2018 Program Plan:

High-Priority Water Quality Issue	Education/Outreach Activity	Materials Used	Distribution Methods	Estimated Population Reached	Estimated % of Target Audience that will be Reached
Poor Quality Receiving Waters	Email sent to all firms with active developments on campus at the time	Annual Specifications for Erosion and Sediment Control and Stormwater Management; Campus Design Guidelines	Availability on website, plus email distribution to all A/E firms performing planning and designs on campus	Three firms	100%
Student and Faculty Stormwater Education and Outreach	Email sent to all students, staff and faculty	Stormwater fact sheets and/or general stormwater education presentations	Email stormwater fact sheets and/or conduct general stormwater presentations at a minimum of once per year	6,318 students, staff, and faculty	100%
Dumpster and Litter Management on campus	Email sent to all students, staff, and faculty	Dumpster best practices fact sheet	Email fact sheets on an annual basis.	6,318 students, staff, and faculty	100%

VSU elected to distribute the Stormwater Fact Sheet and Dumpster Fact Sheet to all students and faculty via email in lieu of at campus Town Hall Meetings and during staff training sessions in order to reach a much wider audience.



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 2013-2018 Program Plan.

#### MCM 2: Public Involvement and Participation

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: <a href="http://www.vsu.edu/about/administrative-offices/admin-finance/capital-outlay-and-facilities/capital-outlay/programs-resources-procedures.php">http://www.vsu.edu/about/administrative-offices/admin-finance/capital-outlay/programs-resources-procedures.php</a>.

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. This year VSU planted and dedicated a tree in Dr. Martin Luther King's honor in celebration of Arbor Day in lieu of supporting the Ft. Lee Annual Earth Day Event (refer to MCM2 for documentation of this event).
- 2. Seek Tree Campus USA Program Designation. VSU formed a joint Tree Campus USA and Stormwater Committee and has received the Tree Campus USA designation. The committee meets on a regular basis and works to maintain this designation for the University. Refer to MCM 2 for documentation of this activity.
- 3. Seek partnership opportunities for public involvement and participation with other local MS4 programs. VSU partnered with Chesterfield County to install storm drain placards on all storm drain inlets on campus. This is a multi-year project. Refer to MCM2 for documentation of this activity.
- 4. Seek classroom guest speakers that focus on stormwater. Timmons Group gave presentations about the University's MS4 program and stormwater management on March 11<sup>th</sup> and 16<sup>th</sup> to two VSU Environmental Science Labs. Refer to MCM2 for documentation of this activity.



#### MCM3: Illicit Discharge Detection and Elimination

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

During the 2014 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 was included in Appendix MCM3 of the 2013-2014 Annual Report.

No additional physical interconnections between the VSU MS4 system and adjacent MS4 systems have been identified during this reporting period and as such no notifications were provided during this reporting period.

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.

21 outfalls were screened during the reporting period resulting in no illicit discharge follow-up actions. Refer to Appendix MCM 3 for outfall screening results. Note, one outfall was removed from the system as noted earlier in the report, resulting in one less screening this year.

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. Note that the Outfall Map has been updated to include the newly constructed Athletic Truck Line.

#### MCM 4: Construction Site Stormwater Runoff Control

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

Six regulated land disturbing activities occurred within the reporting period. Refer to Appendix MCM 4 for documentation.

Annual Reporting Requirement 2: Total number of acres disturbed.

Approximately 53.92 acres of area were disturbed for this reporting period. Refer to Appendix MCM 4 for documentation.



Annual Reporting Requirement 3: Total number of inspections conducted

Approximately 27 inspections were conducted within this reporting period. 19 were performed by University staff and 8 were performed by outside contractors. 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 requirements provided on erosion and sediment control inspection forms.

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

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.

No new stormwater management facilities were brought online during the reporting period. The most up to date stormwater management facility database is provided in the Program Plan. Three facilities that had previously been combined in the database were separated, resulting in the apparent addition of three facilities.

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.

## MCM 6: Pollution Prevention/Good Housekeeping for Municipal Operations

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

Daily operational procedures have been developed and are included in the Program Plan.



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 96 acres of campus.

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

A Nutrient Management Plan has been developed for approximately 96 acres of campus and is provided in the Program Plan.

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

Documentation of training event completed during the 2014-2015 reporting period is included in Appendix MCM6.

#### 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.

- Implement Chesapeake Bay TMDL Action Plan
- 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

No existing BMPs were changed during the reporting period. MCM 6 has been updated to reflect nutrient management plans and Standard Operating Procedures that were prepared during the reporting period.

## 5.2. Changes in Measurable Goals

The following measureable goals were changed during the reporting period as described below. An updated version of the program plan that includes these changes has been provided for review and reference.

MCM 1 – The number of A/E firms performing planning and designs on campus decreased during this annual reporting year and the Program Plan was updated to reflect that. VSU still intends to reach 100% of active firms once each year.

VSU elected to distribute educational materials to all faculty and staff via email instead of only at University Town Hall meetings and staff training sessions in order to ensure delivery to a wider audience. This increased the target audience population size from approximately 50 students and 100 staff to approximately 5,000 students and 1,200 staff.

MCM 5 – The documentation protocol for BMP inspections was updated to allow for flexibility in the type of documentation acceptable for record keeping purposes.

# 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 TMDL Special Conditions Contained in Section I

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

- VSU has not been assigned any Waste Load Allocations 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. A Chesapeake Bay TMDL Action Plan has been prepared and submitted under separate cover.

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# Appendix MCM 1

From: Jonathan A. Taylor < jataylor@vsu.edu> Sent:

Tuesday, June 09, 2015 2:25 PM

To: Ken Pope; Carrie Langelotti; Mitch Rowland; James Peace; William J. Pipp

Cc: Amelia Wehunt; Jane S. Harris; Gilbert Hanzlik; Debra C. Albert

Subject: VSU Annual Standards and Specifications for Erosion and Sediment Control &

Stormwater Management

To all of our Term Contract holders,

VSU has developed and implemented our own Annual Standards and Specifications for Erosion and Sediment Control & Stormwater Management. They are located on the VSU website for your use and for distribution to your Consultants at http://www.vsu.edu/about/administrative-offices/admin-finance/capital-outlay-and-facilities/programs-resourcesprocedures.php. These standards are updated on an annual basis, so please confirm that you are using the correct version at the outset of your projects.

These standards shall apply to all land disturbance projects exceeding 2,500 square feet of disturbance unless otherwise exempt. Please familiarize yourself with these guidelines. If you have any questions or suggestions, please email me at jataylor@vsu.edu.

#### Thanks You

Jonathan A Taylor Virginia State University **Director of Capital Outlay Physical Plant Building** 2916 Myster Macklin Street PO Box 9414, Suite 25 Virginia State University, VA 23806 804 504 7500 office 804 524 5383 fax jataylor@vsu.edu

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From: Jane S. Harris <jsharris@vsu.edu>
Sent: Friday, March 27, 2015 1:18 PM
To: Faculty; Staff; All Students

**Cc:** Amelia Wehunt

**Subject:** Environmental Stewardship at VSU

**Attachments:** Stormwater Fact Sheet.pdf

Do you know that Virginia State University owns and operates a network of storm water inlets, pipes, ditches, and storm water management ponds known as a Municipal Separate Storm Sewer System (MS4)? The attached fact sheet tells you a bit more about storm water management and what you can do to make sure that campus is safe and clean for today and tomorrow's VSU community!

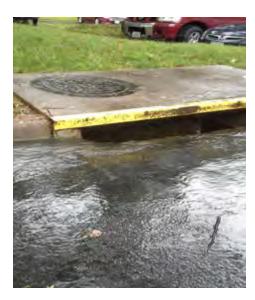
Jane Harris
Virginia State University
AVP for Capital Outlay and Facilities
Physical Plant Building
2916 Myster Macklin Street
Virginia State University, VA 23806
(W) (804) 524-6239
(C) (804) 218-3225
(F) (804) 524-5383
jsharris@vsu.edu

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# MINIMIZING STORMWATER POLLUTION

Stormwater is water from rain or melting snow that does not soak into the ground but runs off into waterways. It flows from rooftops, bare soil and paved areas and lawns. It picks up a variety of contaminants (pet waste, fertilizers, oil, grease) along the way. These enter our lakes, streams, wetland and rivers and can harm fish, wildlife, vegetation. It can also foul your drinking water.

PRACTICES TO REDUCE STORMWATER POLLUTION INCLUDE CONTAINING AND COVERING GARBAGE, WASTE MATERIALS, AND DEBRIS. EVEN THE SIMPLE PRACTICE OF KEEPING A TRASH CAN LID CLOSED CAN BE A VERY EFFECTIVE POLLUTION PREVENTION MEASURE. OTHER EASY WAYS TO PREVENT STORMWATER POLLUTION INCLUDE: WASHING YOUR CAR OVER LAWN OR GRAVEL; USING LAWN CHEMICALS SPARINGLY, AND CLEANING UP PET WASTE.







To report illegal dumping on the VSU campus, call (804) 524-5451.



From: Jane S. Harris <jsharris@vsu.edu>
Sent: Thursday, April 09, 2015 11:23 PM

**To:** All Students; Faculty; Staff

**Cc:** Amelia Wehunt

**Subject:** Environmental Stewardship at VSU

**Attachments:** Dumpster Fact Sheet.pdf

As the semester draws to a close and some of us prepare to leave campus, please be mindful that our actions can have a direct impact on the rivers and streams we share. Using Best Management Practices when discarding trash will help prevent pollution from entering drains and into our rivers and streams. Please read the attached fact sheet to see how you can help keep our campus and the Appomattox River clean for generations of Trojans to come.

Jane Harris
Virginia State University
AVP for Capital Outlay and Facilities
Physical Plant Building
2916 Myster Macklin Street
Virginia State University, VA 23806
(W) (804) 524-6239
(C) (804) 218-3225
(F) (804) 524-5383
jsharris@vsu.edu

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# TRASH BEST MANAGEMENT PRACTICES

# Don't Let Trash End Up in Our Rivers and Streams

Keep dumpsters, trash cans and recycling bins covered, except when filling or emptying. Schedule pickup frequency to keep trash from holding the cover open. Open lids allow contact with stormwater, which dissolves and transports contaminants into the stormwater system. Open lids also invite pests to spread trash around.

Do not put liquids or greases in the trash containers. They should go down the sanitary sewer or be discarded in a grease barrel. Liquids may be accepted by the local sanitary sewer district, check prior to discharging any liquid into the sewer line.

Check that the dumpsters or trash cans are in good condition, with no holes or accumulation of grime. Trash containers should be leak-free. When necessary, call the sanitation company to replace or clean the containers.

Regularly inspect the trash enclosure and general area for problems such as trash not in the container and accumulation of grease or food on the ground. Clean the trash enclosure as needed to remove any accumulations of grime and/or general trash.

Clean trash cans in a designated area with a connection to the sanitary sewer such as mop sink or floor drain. Do not use a drain without knowing whether it flows to the sanitation sewer, storm drain or self-contained internal sump. Confirm before using drains to ensure proper disposal. Never discharge wash-water to storm drains or offsite.

Designate an area for trash collection away from storm drains. This allows problems at the trash container to be corrected before reaching the storm drain or flow offsite.

All of our actions within
our watersheds have a
direct impact on the rivers
and streams we share.

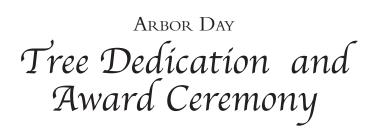
The Best Management
Practices shown at left
help prevent pollution
from going down the
drains and into our rivers
and streams.



To report illegal dumping on the VSU campus, call (804) 524-5451.



# Appendix MCM 2



2:00 p.m. • April 24, 2015

In celebration of Arbor Day, the Sycamore tree planted today on the campus of Virginia State University pays homage to Dr. Martin Luther King Jr. and others who gathered in 1965 beneath a Sycamore tree in preparation for the historic, freedom march from Selma to Montgomery, Alabama, to register black voters.

Having met standards established by the national Arbor Day Foundation, VSU has been distinguished by the organization as a member of its Tree Campus USA, which helps colleges and universities establish and maintain healthy community forests.

#### Remarks by:

- Rev. Delano Douglas
- Jewel Hairston, Ph.D., Dean/1890 Administrator, VSU College of Agriculture

Presentation of Tree Campus USA Award:

• Antonia Noreika, Eastern Region State Forester

Special appearance by Smokey the Bear.

The Sycamore tree was generously donated by Colesville Nursery and Arborcare Professional Tree Services

From: Amelia Wehunt

Sent: Wednesday, August 26, 2015 1:42 PM

To: Matthew Webb

**Subject:** FW: Tree Dedication and Award Ceremony 2PM Friday April 24

Attachments: ArborDayDedication\_April24.pdf; ATT00001.htm

Follow Up Flag: Follow up Flag Status: Flagged

#### Amelia Wehunt, PE

Project Manager

TIMMONS GROUP | www.timmons.com

1001 Boulders Parkway, Suite 300 | Richmond, VA 23225

Office: 804.200.6544 | Fax: 804.560.1438

Mobile: 804.517.4996 | amelia.wehunt@timmons.com

LinkedIn: www.linkedin.com/in/ameliawehunt

Your Vision Achieved Through Ours

To send me files greater than 20MB click here.

From: Jane S. Harris [mailto:jsharris@vsu.edu]

Sent: Sunday, April 26, 2015 3:28 PM

To: Amelia Wehunt

Subject: Fwd: Tree Dedication and Award Ceremony 2PM Friday April 24

Didn't know whether you received this, but thought you should know it took place.

Sent from my iPad

Begin forwarded message:

From: Announcements <announcements@vsu.edu>

**Date:** April 23, 2015 12:07:37 PM EDT

To: Faculty < Faculty @vsu.edu>, Staff < Staff@vsu.edu>

Subject: Tree Dedication and Award Ceremony 2PM Friday April 24

#### ARBOR DAY CELEBRATION

Tree Dedication and Award Ceremony

2:00 p.m. • April 24, 2015 Martin Luther King Drive

The event will take place near the parking area (Lot 30)

In celebration of Arbor Day, the Sycamore tree to be planted on the campus of Virginia State University pays homage to Dr. Martin Luther King Jr. and others who gathered in 1965 beneath a Sycamore tree in preparation for the historic, freedom march from Selma to Montgomery, Alabama, to register black voters.

Having met standards established by the national Arbor Day Foundation, VSU has been distinguished by the organization as a member of its Tree Campus USA, which helps colleges and universities establish and maintain healthy community forests.

Remarks by:

•

Rev. Delano Douglas

•

Jewel Hairston, Ph.D., Dean/1890 Administrator, VSU College of Agriculture

Presentation of Tree Campus USA Award:

•

Antonia Noreika, Eastern Region State Forester

Special appearance by Smokey the Bear.

-----

#### Lesha L. Berkel

Graphic Designer | Marketing & Communications Virginia State University | College of Agriculture

804-524-2788 (office) 804-926-9670 (cell) lberkel@vsu.edu

www.agriculture.vsu.edu

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the use, distribution, disclosure or reproduction of this email (or any part of its contents) by anyone other than the intended recipient(s).

From: Joel Koci <jkoci@vsu.edu>

**Sent:** Thursday, March 05, 2015 11:37 AM

To: Amelia Wehunt
Cc: Marcus Comer
Subject: your request

Attachments: TreeCampusUSAApplicationSummary (1).pdf

#### Ms. Wehunt,

Per your request for a copy of the Tree Campus application, (from a while ago) here it is.

I would love to discuss with you the possibility of doing some research on the new plantings that will be going in here on campus. This is the perfect opportunity to carry out some research on state of the art installation of plant material in a construction site, and spec writing for the installation. Thanks very much.

JKoci

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# **General Information**

#### **Your Contact Information**

• College or University Name: Virginia State University

• Name: Joel Koci

• Title: Urban Forestry Exten. Assoc

• Address:

• 1 Hayden street

Petersburg VA 23806

• **Phone:** 804-524-5758

#### **Communications Office Contact**

• Name: Michell Olgers

• Title: Director of Margeting

• **Phone:** 804-524-6964

• Email: molgers@vsu.edu

#### President/Chancellor's Office

• Name: Pamela Hammond

• Title: President VSU

• Address:

• 1 Hayden ave. Virginia Hall

• Petersburg VA 23806

• Email: phamond@vsu.edu

#### Referrer

- How did you hear about the Tree Campus USA program?:
  - mid atlantic chapter of I S A

#### **Recognition Event Date**

• Recognition Event: April 24, 2014

### Standard 1

#### **Committee Dates**

- Date Committee Was Established: Mar 13, 2014
- Meeting Dates for Application Year:
  - Dec 11, 2014
  - Jun 19, 2014
  - Mar 13, 2014

#### **Committee Members**

- Student:
  - Angela Baker, Grad student andelabaker@live.com
- Faculty:
  - Christopher Catanzaro, Ag dept. Head ccatanzaro@vsu.edu
- Facility:
  - Jane Harris, Facilities Mangmt. jsharris@vsu.edu
- Community:
  - Richard Reuse, VDOF Cty. Forester richard.reuse@dof.virginia.gov
  - Heather Barrar, resident barrah@chesterfield.gov

#### Standard 2

Campus Tree Care Plan Establishment

- Date the Campus Tree Care Plan Was Established: Dec 12, 2014
- Campus Tree Care Plan:
  - file Campus Tree Care Plan 1
- Status of Plan Goals & Tagets

#### Standard 3

**Expenditures Calculation** 

- Tree Planting and Initial Care Costs: \$50000
- Campus Tree Management Costs: \$11700
- Volunteer Time from Students and Civic Organizations: 96
- Other Costs: \$0
- Other Cost Description: 0
- Total Calculated Costs: \$63864.8

#### **Additional Campus Details**

- Number of Trees Planted: 48Number of Trees Removed: 32
- Reason for Tree Removal: Road widening and new building construction.
- Number of Trees Pruned: 80
- Tree Canopy Cover Percent: 15%
- Campus Population: 5,045

## Standard 4

#### **Observance Details**

- Date of the Event: Apr 25, 2014
- Short Summary of the Event:

Ettrick Elementary had its first ever Arborday cellabration on 4/25/14. One "Amelanchier aborea" Serviceberry ,donated by the Virginia Dept. of Forestry, was planted with the help of

second graders from Ettrick Elem. Along with the serviceberry 6 seedling Oaks were installed in the parking area.

- Documents:
  - file Arbor Day Observance 1

# **Standard 5**

**Service Learning Project Details** 

- Date of Service Learning Project: Sep 26, 2014
- Short Summary of the Event:

The Community Outreach Board sponsored the second annual Appomattox River clean up. This scenic river runs adjacent to campus and is an ecotourism draw in our area. The goal was to remove litter and trash from the bank area and clear the paths of fallen debris. The volunters enjoyed the work and gain an appreciation of the once major traveled and historic waterway.

- Number of Students Involved: 24
- file Service Learning Project 1

From: Joel Koci <jkoci@vsu.edu>

Sent: Wednesday, March 11, 2015 9:18 AM

To: Marcus Comer; Jewel E. Hairston; Jane S. Harris; William J. Pipp

Cc: Christopher J. Catanzaro; Michelle Olgers; Amelia Wehunt; pwiseman@vt.edu; Paula H.

McCapes; Reuse, Richard D. (DOF) (Richard.Reuse@dof.virginia.gov); kristina saltsman

(trees4me@me.com)

**Subject:** Tree campus

#### Great News,

I received word today that we earned Tree Campus USA from the National Arborday Foundation. They are getting the signage to me so we can have it when we commemorate the MLK tree. We need to find a suitable site for the MLK tree . Thanks

## Joel Koci

Urban Forestry Extension Associate Virginia State University

"Everything in Nature is interdependent . . . everything! I have to emphasize this again and again." - Rudolph Steiner

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From: Amelia Wehunt

Sent: Wednesday, August 26, 2015 1:41 PM

**To:** Matthew Webb

**Subject:** FW: Chesterfield Stormwater Education Contact

Follow Up Flag: Follow up Flag Status: Flagged

#### Amelia Wehunt, PE

Project Manager

#### TIMMONS GROUP | www.timmons.com

1001 Boulders Parkway, Suite 300 | Richmond, VA 23225

Office: 804.200.6544 | Fax: 804.560.1438

Mobile: 804.517.4996 | amelia.wehunt@timmons.com

LinkedIn: www.linkedin.com/in/ameliawehunt

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**From:** Jonathan A. Taylor [mailto:jataylor@vsu.edu] **Sent:** Wednesday, March 04, 2015 10:14 AM **To:** Field, Lorne; Amelia Wehunt; Barrar, Heather

**Cc:** Aislinn Creel; Jason S. MacDonald; George W. Bowles **Subject:** RE: Chesterfield Stormwater Education Contact

#### Thanks Lorne

I will have Bubba Bowles from VSU pick up the markers.

#### Jonathan

From: Field, Lorne [mailto:FieldL@chesterfield.gov]

Sent: Wednesday, March 04, 2015 9:56 AM

To: Amelia Wehunt; Barrar, Heather

**Cc:** Aislinn Creel; Jonathan A. Taylor; Jason S. MacDonald **Subject:** RE: Chesterfield Stormwater Education Contact

#### Hi Amelia,

I can leave them at the front desk of my department for someone to pick up if you want them soon.

Community Development Building 9800 Government Center Parkway Environmental Engineering, third floor Chesterfield, VA 23832

#### Otherwise I can drop them off at the college sometime next week.

#### Lorne

From: Amelia Wehunt [mailto:amelia.wehunt@timmons.com]

Sent: Tuesday, March 03, 2015 11:38 AM

To: Field, Lorne; Barrar, Heather

Cc: Aislinn Creel; Jonathan A. Taylor; Jason S. MacDonald (<a href="mailto:imacdonald@vsu.edu">imacdonald@vsu.edu</a>)

Subject: RE: Chesterfield Stormwater Education Contact

#### Thanks Lorne!

Chesterfield County should contact the VSU work order desk at 804 524 5451. That number is monitored 24 hrs. / day. and they will contact the appropriate staff person.

What makes sense as the next step to obtain the markers?

#### Amelia

#### Amelia Wehunt, PE

Project Manager

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Office: 804.200.6544 | Fax: 804.560.1438

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LinkedIn: www.linkedin.com/in/ameliawehunt

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From: Field, Lorne [mailto:FieldL@chesterfield.gov]

**Sent:** Friday, February 13, 2015 5:11 PM **To:** Amelia Wehunt; Barrar, Heather

Cc: Aislinn Creel; Jonathan A. Taylor; Jason S. MacDonald (jmacdonald@vsu.edu)

Subject: RE: Chesterfield Stormwater Education Contact

#### Ameila,

We would be glad to provide the markers.

However, our markers display our illicit discharge hotline number. Since VSU is an MS4 authority we would have no enforcement jurisdiction if there were a spill on campus. If we receive a call on our hotline we would have to turn it over to the proper VSU contact. Can we get the contact information for the personnel that handle enforcement/spill response at VSU in case there is an incident?

#### Thanks!

#### Lorne Field

**Chesterfield County Environmental Engineering** 

From: Amelia Wehunt [mailto:amelia.wehunt@timmons.com]

Sent: Friday, February 13, 2015 3:55 PM

To: Field, Lorne; Barrar, Heather

Cc: Aislinn Creel; Jonathan A. Taylor; Jason S. MacDonald (imacdonald@vsu.edu)

Subject: RE: Chesterfield Stormwater Education Contact

Hi Heather and Lorne,

I wanted to reach back out to you all regarding the storm drain markers for VSU's inlets and storm structures. There are roughly 500 structures on campus. Is Chesterfield still willing to provide the markers in furtherance of both MS4 Programs?

I have included Jonathan Taylor and Jason MacDonald from VSU's program on the email for reference. Please let us know what the next steps are if we proceed.

Thank you and have a great weekend!

Amelia

#### Amelia Wehunt, PE

Project Manager

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Office: 804.200.6544 | Fax: 804.560.1438

Mobile: 804.517.4996 | amelia.wehunt@timmons.com

LinkedIn: www.linkedin.com/in/ameliawehunt

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From: Amelia Wehunt

**Sent:** Thursday, May 08, 2014 12:41 PM

To: Field, Lorne; 'Barrar, Heather'

Cc: Aislinn Creel

Subject: RE: Chesterfield Stormwater Education Contact

Lorne and Heather,

Thank you so much for your follow up regarding the VSU MS4 program. Aislinn and I are in the process of working through follow up tasks with VSU and will be in touch regarding next steps.

Thanks again,

Amelia

#### Amelia Wehunt, PE

Project Manager

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Office: 804.200.6544 | Fax: 804.560.1438

Mobile: 804.517.4996 | amelia.wehunt@timmons.com

LinkedIn: www.linkedin.com/in/ameliawehunt

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From: Barrar, Heather [mailto:BarrarH@chesterfield.gov]

Sent: Wednesday, May 07, 2014 3:54 PM

To: 'jataylor@vsu.edu'; Aislinn Creel; Field, Lorne; 'ghanzlik@vsu.edu'

Cc: 'Gregory E. Frey'; Amelia Wehunt

Subject: Chesterfield Stormwater Education Contact

Jonathan, Gil & Aislinn,

As promised, I'm connecting you with Lorne Field, the Environmental Outreach & Education Specialist who works under the county MS4 permit. He can work with you on storm drain marking, illicit discharge information and other programming that we discussed. Lorne would also be interested in connecting with the professors who are doing water quality testing with their students, as was mentioned yesterday. I've also attached a photo of the storm drain marking process as requested by Jonathan.

Please let me know if you need additional contacts – GIS was mentioned. Also, we've implemented a successful new waste contract and we separate food, recyclables and paper in the office – let me know if you'd like more information on that. I'm assisting with the Ettrick VSU Plan, so I'm also very interested in the stormwater study that Timmons is conducting for the rest of the watershed.

Also, I was just asked to serve on a VSU bicycle committee, so maybe I'll work with some of you on that committee as well!

Take care,

Heather

#### Heather Barrar | Senior Planner

Chesterfield County Planning Department 9800 Government Center Parkway Chesterfield, Virginia 23832-0040

Phone: 804.748.1778 | Fax: 804.717.6295 | Email: barrarh@chesterfield.gov

www.Chesterfield.gov

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From: Glenn F. Chappell <gchappell@vsu.edu>
Sent: Thursday, March 19, 2015 11:34 AM

To: Amelia Wehunt

**Subject:** RE: Stormwater Classroom Guest Speaker Opportunity

Mrs. Wehunt,

I do appreciate you speaking to my two Environmental Science Labs about stormwater management over the past couple of weeks. The topic compliments many of the concepts they are learning in the class and allows them to observe the practices you mentioned as they travel around campus. Between the two labs, you opened the eyes of 37 student about the strategies that must be utilized to manage runoff in a way to protect our environment and health. Thanks you so much for your time and I look forward to utilizing your expertise in future classes if you have the time. Glenn

From: Amelia Wehunt [mailto:amelia.wehunt@timmons.com]

Sent: Tuesday, March 03, 2015 11:44 AM

To: Glenn F. Chappell

Cc: Jonathan A. Taylor; Jason S. MacDonald

Subject: RE: Stormwater Classroom Guest Speaker Opportunity

Yes, I can come on March 11<sup>th</sup> and 16<sup>th</sup> at 2:40pm. What room is it in the Agricultural engineering shop?

I will have the PowerPoint presentation. I can bring my laptop and/or a USB drive with the presentation. Is there a projector and screen available in your classroom? I can bring these also if needed, just let me know what is available in your room.

Looking forward to it!

Amelia

#### Amelia Wehunt, PE

Project Manager

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Mobile: 804.517.4996 | amelia.wehunt@timmons.com

LinkedIn: www.linkedin.com/in/ameliawehunt

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From: Glenn F. Chappell [mailto:gchappell@vsu.edu]

**Sent:** Tuesday, March 03, 2015 11:35 AM

To: Amelia Wehunt

Subject: RE: Stormwater Classroom Guest Speaker Opportunity

Would you be available March 16 and March 11<sup>th</sup> at 2:40 p.m. I have two environmental science labs that last 2 hrs each. What I am thinking is about a 45 minute presentation and then I will give them the questions either in lab or make it an assignment for them to complete by the next lab period. We have class in the Agricultural engineering shop located on the southeast side of campus near the physical plant administration building. If these dates work please let

me know what equipment you will need for the class. Thanks for your assistance and I am looking forward to hearing the information myself. Glenn

From: Amelia Wehunt [mailto:amelia.wehunt@timmons.com]

Sent: Monday, February 16, 2015 10:02 AM

To: Glenn F. Chappell

Cc: Jonathan A. Taylor; Jason S. MacDonald

Subject: RE: Stormwater Classroom Guest Speaker Opportunity

Glenn,

I have uploaded a copy of the presentation and some questions here: <u>Click to Retrieve File(s)</u>. If the link is not clickable, copy and paste the following URL into your browser: <a href="https://www.sendthisfile.com/LW60l92VGc6ciJ3DsiZHa9da">https://www.sendthisfile.com/LW60l92VGc6ciJ3DsiZHa9da</a>.

Please take a look and let me know if you want me to add or remove any content. Please also let me know what day/time you prefer.

Thanks so much! Looking forward to it.

Amelia

Amelia Wehunt, PE
Project Manager
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Office: 804.200.6544 | Fax: 804.560.1438

Mobile: 804.517.4996 | amelia.wehunt@timmons.com

LinkedIn: www.linkedin.com/in/ameliawehunt

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----Original Message-----

From: Glenn F. Chappell [mailto:gchappell@vsu.edu]

Sent: Friday, February 13, 2015 10:24 PM

To: Amelia Wehunt

Subject: RE: Stormwater Classroom Guest Speaker Opportunity

I am interested. Please let me know what material you plan to cover and I can probably include it in my labs. I will need the content of the presentation and questions to give the students at the end of the presentation. Otherwise they will not listen. Thanks for the opportunity. Glenn

From: Amelia Wehunt [amelia.wehunt@timmons.com]

Sent: Friday, February 13, 2015 4:44 PM

To: Glenn F. Chappell

Cc: Jonathan A. Taylor; Jason S. MacDonald

Subject: Stormwater Classroom Guest Speaker Opportunity

Dear Dr. Chappell,

I'm reaching out to you on behalf of the University's stormwater program to see if there would be an opportunity to speak to your Introduction to Environmental Science course about stormwater management or a related topic this semester.

In previous semesters we spoke with one of Dr. Frey's classes and it seemed to complement his material while helping the University meet its stormwater program compliance goals.

We can make it as time specific as you prefer from either a quick 15 minutes or up to a whole lecture.

Please let me know if you are interested in this opportunity and we can discuss in further detail.

Thank you for your time,

Amelia

Amelia Wehunt, PE

Project Manager

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3A www.timmons.com &d=AwMFAg&c=M6jrGf-tsbVD-

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3Lrta06t7Fd9o&e=>

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Mobile: 804.517.4996 | amelia.wehunt@timmons.com<mailto:amelia.wehunt@timmons.com> LinkedIn: www.linkedin.com/in/ameliawehunt<a href="https://urldefense.proofpoint.com/v2/url?u=http-">https://urldefense.proofpoint.com/v2/url?u=http-</a>

3A www.linkedin.com in ameliawehunt&d=AwMFAg&c=M6jrGf-tsbVD-

IIQXm5t9QIANL IQIQ77prrocxArU&r=UMzaX1jjhECwy5W23YDff3PqJFKS-Ki4YvNlwq-

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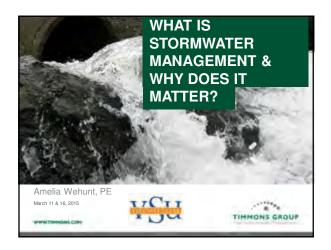
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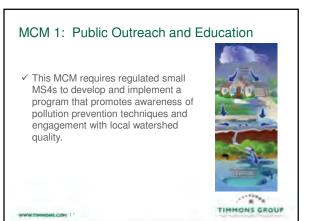




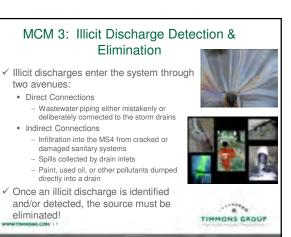










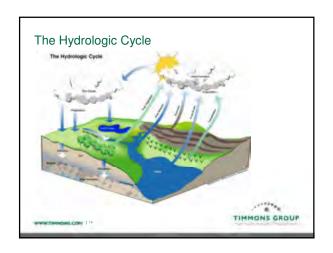


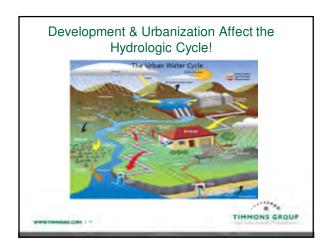


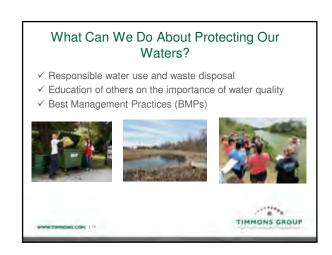




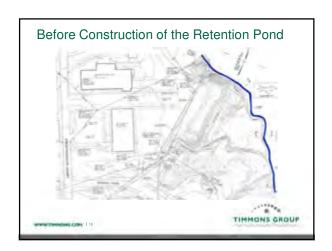


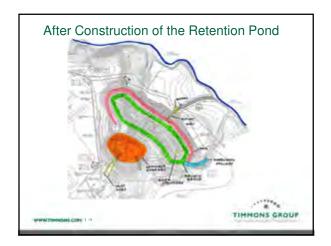




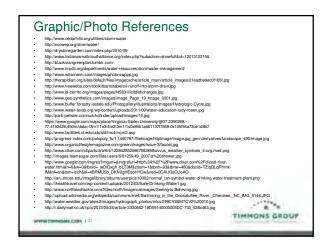












#### Appendix MCM 3



Virginia State University, VA 23806

Phone: (804)524-3971 Fax: (804)524-5383

Outfall ID #	Inspection Date: Inspector:	Photo #'s: 311 312			
	2 /23/2015 E. Gallagher	311.312			
	C. Nelson				
	End of Pipe Diameter: 32"	Pipe Material			
	End of Pipe Diameter:	★ Concrete			
Outfall	✓ Circular	PVC			
Description	Elliptical	Steel			
	Вох	Other:			
	Other:				
Date of Last Rainfall		stimated Discharge Rate			
3/20/2015	0.74	0			
Weather Information C					
	ound.com/history/airport/KRIC/2014	Visual Observations			
	Outfall Submerged? Y N	Flow Present ? (Y) N			
	If yes, (Circle):	Width of Water Surface 58			
	Water:	Approximate Depth of Water (ft.):			
	Fully	Approximate Flow Velocity (ft./s): 2			
	Partially	Approximate Flow Rate (cfs): 0232			
	Sediment:	Flow Color/Clarity (Check all that apply):			
	Fully	Clear			
	Partially	Muddy			
Findings	Debris Around Outfall (Check all that apply	Milky			
	None Sediment	Sheen			
	Table   Tabl	Soapy Foam			
	Trash	Other:			
	Other:				
	Debris in Pipe (Check all that apply):	Flow Odor (Check all that apply):  None			
	None Sediment				
	Trash	Petroleum			
		Sewage			
	Other:	Other:			
	Visual Observations (Circle)	16.3			
		Deposits/Stains Y(N)			
	D ib.				
	Describe				
	Vegetation Condition (Circle)	Excessive Inhibited			
		ĸ K			
	Describe	None			
		10000			
	Pipe Condition (Circle)	Good Fair Poor			
	Tipe condition (circle)	Tall FOOI			
	Describe				
	Describe				



Virginia State University, VA 23806

Phone: (804)524-3971

Fax: (804)524-5383

Structure Condition (Circle)	Good	Fair	Poor	
Describe				
Notable Biology (animals, insects, plants, etc.) Describe:				
Receiving Stream Name	Fleet	ś Bra	nch	
Notes/Necessary Action:				
.0.				
Certification:				
If no action is required, certify the following:				
"I certify that the outfall inspection is complete and that no illicit disc	harge is evident a	t this time.'	12015	
Signature of Inspector		Date	12013	
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.	e date, time, and a	ections. Inte	ermittent discl	harges require
Upon illicit discharge elimination, re-inspect and certify the following:	:			
"I certify that the illicit discharge has been eliminated, documented, a	and that no additi	onal action	is necessary a	t this time."
Signature of Inspector		Date		
Next inspection date:				



Outfall 1 – #311



Outfall 1 - #312



Virginia State University, VA 23806

Phone: (804)524-3971 Fax: (804)524-5383

Outfall ID # Inspection Date: Inspector: Photo #'s:				
	3/23/2015 Chris Nolson	Photo #'s: 31'3		
	Erin Gallagh	ur		
	End of Pipe Diameter:	Pipe Material Concrete		
Outfall	Y Circular			
Description	Elliptical	PVC		
Description		Steel		
	Box Other:	Other: HDPE		
Date of Last Rainfall		stimated Discharge Rate		
3/20/2015	O 74	stimated discharge Rate		
Weather Information Ca				
	und.com/history/airport/KRIC/2014	Visual Observations		
nttp.//www.wundergrot	Outfall Submerged? Y N	Visual Observations 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):		
	Sediment:	Flow Color/Clarity (Check all that apply):		
	Fully	Clear		
	Partially	Muddy		
Findings	Debris Around Outfall (Check all that apply):			
	None Sediment	Sheen		
	Trash	Soapy Foam		
		Other:		
	Other:  Debris in Pipe (Check all that apply):	Flour Oder /Cheek all that a multi-		
	None	Flow Odor (Check all that apply):  None		
	Sediment	Petroleum		
	Trash	Sewage		
	Other:	Other:		
	other.	Floatables Y/N		
	Visual Observations (Circle)	Deposits/Stains YN		
		Deposits/stains		
	Describe			
	Vegetation Condition (Circle)	Excessive Inhibited		
<u> </u>	- Bessies Consistent (circle)	2.teess.ve   Illimoteed		
	Describe	None		
	Pipe Condition (Circle)	Good Fair Poor		
	Describe			



Virginia State University, VA 23806

Structure Condition (Circle)	Good	Fair	Poor	
Describe				
Notable Biology (animals, insects, plants, etc.) Describe:				
Receiving Stream Name	Fleets	Scan c	<u> </u>	
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	scharge is evident a	t this time.	10	
_ Ch Mh		3/23	12015	
Signature of Inspector		Date		
If illicit discharge investigation is required, provide a time frame for	investigation comp	letion:		
Document all steps utilized to eliminate the illicit discharge to inclu three separate investigation with the appropriate documentation.	de date, time, and a	ections. Inte	ermittent disc	harges require
Upon illicit discharge elimination, re-inspect and certify the following	ng:			
"I certify that the illicit discharge has been eliminated, documented	l, and that no additi	onal action	is necessary a	it this time."
Signature of Inspector		Date		
Next inspection date:				



Outfall 2 - #313



Virginia State University, VA 23806

Phone: (804)524-3971 Fax: (804)524-5383

Outfall ID # 3	Inspection Date:	Inspector:	Photo #'s:			
	3/23/2015	E. Gallagher	er 3126,317			
		E. Gallaghe			1	
	End of Pipe Diameter: 60"		P	Pipe Material X Concrete		
Outfall	X Circular		-	PVC	_	
Description	Elliptical			Steel		
	Box			ther:		
	Other:					
Date of Last Rainfall	Quantity of Last	Rainfall (in.)	Estimated [	ischarge Rate		
3/20/2015	0.74			,	1	
Weather Information Car						
http://www.wundergrou	nd.com/history/airport/KF	RIC/2014			Visual Ob	servations
Findings	Outfall Submerged? If yes, (Circle): Water: Fully Partially Sediment: Fully Partially Debris Around Outfall (Outfall (Ou		y): N y): N y): SI SI SI N	ow Present ? Gidth of Water So oproximate Deproproximate Flow oproximate Flow ow Color/Clarity ear uddy ilky eeen opapy Foam ther: ow Odor (Check one etroleum	urface 40 th of Water (ft.) Velocity (ft./s) Rate (cfs):	N :
	Other:			ther: Floatables	T	V/(0)
	Visual Obs	ervations (Circle)	D	eposits/Stains		(V)N
	Vegetation	Describe Condition (Circle)	Sec	liment @	botton	
	vegetation	condition (circle)	E.A	CCJJIVE	1000	JILEU
		Describe		None		
	Pipe	Condition (Circle)	Good	Fair	Poor	
		Describe				



Virginia State University, VA 23806

	Good	Fair	Poor	
Describe				
Notable Biology (animals, insects, plants, etc.) Describe:				
Receiving Stream Name	Fleet	Bran	ch	
Notes/Necessary Action:				
Certification:  If no action is required, certify the following:				
	ischarge is evident	at this time.'	i	
If no action is required, certify the following:	ischarge is evident		" 3 <u>/20</u> 15	
If no action is required, certify the following:	ischarge is evident			
If no action is required, certify the following: "I certify that the outfall inspection is complete and that no illicit di		3/23 Date		
If no action is required, certify the following:  "I certify that the outfall inspection is complete and that no illicit di  Charles  Signature of Inspector	r investigation com	3/23  Date  pletion:	3/20/5	
If no action is required, certify the following:  "I certify that the outfall inspection is complete and that no illicit di  Classification 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	r investigation com de date, time, and	3/23  Date  pletion:	3/20/5	
If no action is required, certify the following:  "I certify that the outfall inspection is complete and that no illicit di  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 de date, time, and ng:	Date pletion: actions. Into	3/20/5	charges require
If no action is required, certify the following:  "I certify that the outfall inspection is complete and that no illicit di  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 following the second certify the following that the second certification is second certification.	r investigation com de date, time, and ng:	Date pletion: actions. Into	3/20/5	charges require



Outfall 3 - #316



Outfall 3 - #317



Virginia State University, VA 23806

Phone: (804)524-3971 Fax: (804)524-5383

Outfall ID # 4	Inspection Date: Inspector:	Photo #'s:			
	3/23/2015 E. Gallagher	314			
	C. Nelsox				
	End of Pipe Diameter: 54"	Pipe Material			
	End of Pipe Diameter:	✓ Concrete			
Outfall	Circular	PVC			
Description	Elliptical	Steel			
	Вох	Other:			
	Other:	other.			
Date of Last Rainfall		Estimated Discharge Rate			
3/20/2015)	0.74	- stillated bischarge hate			
Weather Information Can					
	nd.com/history/airport/KRIC/2014		Visual Observations		
nttp.//www.wanacigiou	Outfall Submerged? Y	Flow Present ?	Visual Observations N		
	If yes, (Circle):	Width of Water Su			
	Water:	Approximate Double	h of Material (fr. )		
		Approximate Depti	h of Water (ft.): 25		
	Fully		Velocity (ft./s):		
	Partially		Rate (cfs): <u>, 005</u>		
	Sediment:		(Check all that apply):		
	Fully		(Clear)		
	Partially	Muddy			
Findings	Debris Around Outfall (Check all that apply		Milky		
	None	Sheen	Sheen		
	Sediment	Soapy Foam			
	Trash	Other:			
	Other:	Other			
	Debris in Pipe (Check all that apply):	Flow Odor (Check a	all that apply):		
	None	None	X		
	Sediment	Petroleum			
	Trash	Sewage			
	Other:	Other:			
	Visual Observations (Circle)	Floatables	YAN		
	visual observations (circle)	Deposits/Stains Y/N			
	Describe				
	Vegetation Condition (Circle)	Excessive	Inhibited		
Describe		\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \			
	Describe	None			
	Pipe Condition (Circle)	Good Fair	Poor		
	Describe				



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

				(55.752.75
Structure Condition (Circle)	Good	Fair	Poor	
Describe				
Notable Biology (animals, insects, plants, etc.) Describe:				
Receiving Stream Name	Flee	As B	ranch	
Notes/Necessary Action:				
Certification:  If no action is required, certify the following:  "I certify that the outfall inspection is complete and that no illicit d	lischarge is evident a		/2015	
Signature of Inspector		Date		
If illicit discharge investigation is required, provide a time frame for Document all steps utilized to eliminate the illicit discharge to incluthree separate investigation with the appropriate documentation.  Upon illicit discharge elimination, re-inspect and certify the following the separate investigation with the appropriate documentation.	ude date, time, and		ermittent disch	narges require
"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		
Next inspection date:				



Outfall 4 – #314



Virginia State University, VA 23806

Phone: (804)524-3971 Fax: (804)524-5383

Outfall ID # 5	Inspection Date: Inspector:	Photo #'s:	4		
	3/23/2015 E.Gallaginer	318,3	19		
	C. Nelson				
	End of Pipe Diameter: 3.7"	Pipe Material			
	End of Pipe Diameter: 44	X Concrete			
Outfall	Circular	PVC			
Description	Elliptical	Steel			
	Вох	Other:			
	Other:				
Date of Last Rainfall	Quantity of Last Rainfall (in.)	stimated Discharge Rate			
3/20/2015	0.74				
Weather Information Car					
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 Sur	face 25		
	Water:		of Water (ft.):		
	Fully		Velocity (ft./s): 01 ft/s		
	Partially		Rate (cfs):		
	Sediment:		Check all that apply):		
	Fully	Clear	check an that apply).		
	Partially	Muddy			
Finding.	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 a	Il that apply):		
	None	X None	X		
	Sediment	Petroleum			
	Trash	Sewage			
	Other:	Other:			
		Floatables	Y/N		
	Visual Observations (Circle)	Deposits/Stains	(Y)N		
		^	9.1		
	Describe	$\Delta 1$			
		Algea			
		-			
	Vegetation Condition (Circle)	Excessive	Inhibited		
	Dosariba	<i>C</i>			
	Describe	Jome			
	-		- 1		
	Pipe Condition (Circle)	Good Fair	Poor		
	Describe				



Virginia State University, VA 23806

Structure Condition (Circle)	Good Fair Poor
Describe	
Notable Biology (animals, insects, plants, etc.) Describe:	Algea Fleet's Branch
Receiving Stream Name	Fleet's Branch
Certification:  If no action is required, certify the following:	
"I certify that the outfall inspection is complete and that no illicit dis	3/23/2015
Signature of Inspector	Date
If illicit discharge investigation is required, provide a time frame for 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."	nde date, time, and actions. Intermittent discharges require
,	,
Signature of Inspector	Date



Outfall 5 - #318



Outfall 5 - #319



Virginia State University, VA 23806

Phone: (804)524-3971 Fax: (804)524-5383

Outfall ID # // Inspection Date: Inspector:		Photo #'s:				
	3/23/2015	E Gallagha	ur 320,321			
		C. NUSSX		1		
	End of Pipe Diameter: 30"		Pipe Material  Concrete			
Outfall	Circular		PVC			
Description	Elliptical		Steel			
Description						
	Box		Other:			
Date of Last Rainfall	Other:	A Deinfall (in )	Fatiment of Disabases Date			
	Quantity of Las		Estimated Discharge Rate	_		
3/20/2015	0 4 7	4		_		
Weather Information Ca		(DIO/DO4.4				
nttp://www.wundergrou	ind.com/history/airport/h		[st p	Visual Observations		
	Outfall Submerged?	(Y) N	Flow Present ?	N		
	If yes, (Circle):		Width of Water	Surface 1911		
	Water:			pth of Water (ft.);		
	Fully		Approximate Flo	ow Velocity (ft./s):		
	Partially			ow Rate (cfs) 132		
	Sediment:			ty (Check all that apply):		
	Fully		Clear	-, (		
	(Partially)		Muddy			
Findings	Debris Around Outfall	(Check all that apply				
Findings	None			Sheen		
	Sediment					
	Trash		Soupy ( ouin			
	Other:	L	Other:	-		
	Debris in Pipe (Check	all that apply):	Flow Odor (Cher	ck all that apply):		
	None	I chacappiyy.	None	ck all triat apply).		
			Y Petroleum			
	Trash	1				
	Other:	L	Sewage Other:			
	other		Floatables	VAD		
	Visual Ol	oservations (Circle)	Deposits/Stains	Y(N)		
			Deposits/Stains	YN		
		Dannika		1		
		Describe	Some	Stains		
	Vegetation	n Condition (Circle)	Excessive	Inhibited		
		Describe				
	Pipe	e Condition (Circle)	Good Fair	Poor		
· · · · · · · · · · · · · · · · · · ·			Tuni			
		Describe				



Virginia State University, VA 23806

Structure Condition (Circle)	Good	Fair	Poor				
Describe			1				
Notable Biology (animals, insects, plants, etc.) Describe:							
Receiving Stream Name	Float	5 Bra	nuh				
Notes/Necessary Action:	1 1001	у руи					
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."							
Signature of Inspector		Date					
If illicit discharge investigation is required, provide a time frame for investigation completion:  Document all steps utilized to eliminate the illicit discharge to include date, time, and actions. Intermittent discharges require 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, and that no additional action is necessary at this time."							
Signature of Inspector		Date					
Next inspection date:							



Outfall 6 - #320



Outfall 6 - #321



Virginia State University, VA 23806

Phone: (804)524-3971 Fax: (804)524-5383

Outfall ID #	Inspection Date: Inspector:	Photo #'s:	
	3/23/2015 E.Gallagier	326	
	(NUSO)		
	End of Pipe Diameter:	Pipe Material	
	End of ripe blameter.	Concrete	
Outfall	Circular	PVC	
Description	Elliptical	Steel	
	Вох	Other: HDPE	
	Other:		
Date of Last Rainfall		timated Discharge Rate	
3/20/2015	0.74		
Weather Information Car			
http://www.wundergrou	ind.com/history/airport/KRIC/2014		Visual Observations
	Outfall Submerged? Y	Flow Present ?	Y (N)
	If yes, (Circle):	Width of Water Sur	
	Water:	Approximate Depth	
	Fully	Approximate Flow \	/elocity (ft./s):
	Partially	Approximate Flow F	tate (cfs):
	Sediment:	Flow Color/Clarity (	Check all that apply):
	Fully	Clear	
	Partially	Muddy	
Findings	Debris Around Outfall (Check all that apply):		
	None	Sheen	
	Sediment	Soapy Foam	
	Trash	Other:	
	Other: Leaves		
	Debris in Pipe (Check all that apply): None	Flow Odor (Check a	I that apply):
	Sediment	X None Petroleum	
	Trash		
	Other: Leaves	Sewage Other:	
	other.	Floatables	Y/N
	Visual Observations (Circle)	Deposits/Stains	Y/N)
	10	Deposits/Stains	100
	Describe		
	Beschibe		
	Vegetation Condition (Circle)	Excessive	Inhibited
	Describe		
	Beschibe		
	Pipe Condition (Circle)	Good Fair	Poor
	D 1		
	Describe		



Virginia State University, VA 23806

Phone: (804)524-3971

			Fa	x: (804)524-5
Structure Condition (Circle)	Good	Fair	Poor	
Describe				
Notable Biology (animals, insects, plants, etc.) Describe:	Le	aves Brai		
Receiving Stream Name	Fleet	& Brai	rch	
Notes/Necessary Action:	•			
.98				
Certification:  If no action is required, certify the following:				
"I certify that the outfall inspection is complete and that no illicit disc  Signature of Inspector	harge is evident a	t this time.' $3/23$	2/2015	
If illicit discharge investigation is required, provide a time frame for ir	vestigation comp	letion:		
Document all steps utilized to eliminate the illicit discharge to include three separate investigation with the appropriate documentation.	e date, time, and a	actions. Inte	ermittent discha	arges require
Upon illicit discharge elimination, re-inspect and certify the following	:			
"I certify that the illicit discharge has been eliminated, documented, a	and that no additi	onal action	is necessary at	this time."
Signature of Inspector		Date		

Next inspection date:\_



Outfall 7 – #326



Virginia State University, VA 23806

Phone: (804)524-3971 Fax: (804)524-5383

Outfall ID #	Inspection Date:	Inspector:		Phot	o #'s:		
	3/23/2015	E. Gallagher			323		
		C. Nelson					
	End of Pipe Diameter:	0 111			Material		
	Life of Tipe Diameter.		-	X	Concrete		
Outfall	★ Circular			PVC			
Description	Elliptical			Steel			
	Вох			Othe	r:		
	Other:				***		
Date of Last Rainfall	Quantity of Last	t Rainfall (in.)	Estimate	d Disc	harge Rate		
3/20/2015	0.74						
Weather Information Ca							
	und.com/history/airport/K	RIC/2014				Visual Ol	oservations
and the second s	Outfall Submerged?	(Y) N		Flow	Present ?	Y	(N)
	If yes, (Circle):	0			h of Water Su	rface II'	
	Water:				oximate Deptl		1. 1."
					-		
	Fully				oximate Flow		
	Partially				oximate Flow		
	Sediment:				Color/Clarity	(Check all that	t apply):
	Fully			Clea			
	Partially			Mud			
Findings	Debris Around Outfall	(Check all that app	y):	Milk	•		
	None			Shee			
	Sediment		X	Soap	y Foam		
	Trash			Othe	r.		
	Other:		_				
	Debris in Pipe (Check a	Ill that apply):		Flow	Odor (Check a	all that apply):	
	None			None	9		X
	Sediment	11	X	Petro	oleum		
	Trash			Sewa	age		1/4
	Other:		_	Othe	r:		
	Visual Ok	servations (Circle)		Fl	oatables		YN
	Visual Or	servations (Circle)		Depo	osits/Stains		(V/N
		Describe			Sedimi	ent in f	pipe
	Vegetation	Condition (Circle)		Exces		,	ibited
		Describe		5	ome		
	Pipe	Condition (Circle)	Go	od	Fair	Poor	
		Describe					



Virginia State University, VA 23806

Structure Condition (Circle)	Good	Fair	Poor	
Describe				1
Notable Biology (animals, insects, plants, etc.) Describe:	Plan	4s		
Receiving Stream Name	Fleets	Beari	h	
Notes/Necessary Action:	1	- 00000		
Certification:  If no action is required, certify the following:  "I certify that the outfall inspection is complete and that no illicit dis	scharge is evident a	- V		
-er w			12015	
Signature of Inspector		Date		
If illicit discharge investigation is required, provide a time frame for	investigation comp	letion:		
Document all steps utilized to eliminate the illicit discharge to include three separate investigation with the appropriate documentation.	de date, time, and a	actions. Inte	ermittent disc	harges require
Upon illicit discharge elimination, re-inspect and certify the followin	g:			
"I certify that the illicit discharge has been eliminated, documented,	and that no additi	onal action	is necessary a	t this time."
Signature of Inspector		Date		
		Date		
Next inspection date:		Date		



Outfall 8 – #323



Virginia State University, VA 23806 Phone: (804)524-3971

Fax: (804)524-5383

Outfall ID #	Inspection Date: Inspector:	Photo #'s:
	3/23/2015 E. Gallagher	Pnoto # s: 3 22
	C. Nelson	
	End of Pipe Diameter: 371	Pipe Material
Outfall	X Circular	Concrete PVC
Description	Elliptical	Steel
Description		
p	Box Other:	Other:
Date of Last Rainfall		imoted Dischause Data
3/20/2015	O. 74	timated Discharge Rate
Weather Information Ca		
	und.com/history/airport/KRIC/2014	Vigual Observations
nttp.//www.wundergrot	Outfall Submerged? Y N	Visual Observations Flow Present ? Y N
	If yes, (Circle):	Flow Present ? Y 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):	
	None	Sheen
	Sediment	Soapy Foam
	Trash	Other:
	Other:	C. 11-37-2
	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/M
		Deposits/Stains Y/N
	Describe	Trash downstream
	Vegetation Condition (Circle)	Excessive Inhibited
	Describe	
	Pipe Condition (Circle)	Good Fair Poor
	Describe	



Virginia State University, VA 23806

Structure Condition (Circle)	Good	Fair	Poor	
Describe				
Notable Biology (animals, insects, plants, etc.) Describe:				
Receiving Stream Name	Fleets	Rea	1	
Certification:  If no action is required, certify the following:				
"I certify that the outfall inspection is complete and that no illicit dis	charge is evident a	t this time."		
andr		3/13	12015	
Signature of Inspector		Date		
If illicit discharge investigation is required, provide a time frame for a 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	le date, time, and a		ermittent disch	narges require
"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		
Next inspection date:				



Outfall 9 - #322



Virginia State University, VA 23806

Phone: (804)524-3971 Fax: (804)524-5383

Outfall ID #	Inspection Date: Inspector:	Photo #'s:
	3/23/2015 E. Gallagher	Photo #'s: 328, 329
	C. Nelson	
	End of Pipe Diameter: 30"	Pipe Material
		─ × Concrete
Outfall	Circular	PVC
Description	Elliptical	Steel
	Вох	Other:
	Other:	
Date of Last Rainfall	Quantity of Last Rainfall (in.) Es	timated Discharge Rate
3/20/2015	0.74	
Weather Information Can		
http://www.wundergroup	nd.com/history/airport/KRIC/2014	Visual Observations
	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):
	The state of the 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):	
	None	Sheen
	Sediment	Soapy Foam
	Trash	Other:
	Other:	
	Debris in Pipe (Check all that apply):	Flow Odor (Check all that apply):
	None	X None X
	Sediment	Petroleum
	Trash	Sewage
	Other:	Other:
	Visual Observations (Circle)	Floatables Y/N
	Visual Observations (energy	Deposits/Stains (Y)N
	Describe	Some Stains
	Vegetation Condition (Circle)	Excessive Inhibited
	Describe	
	Pipe Condition (Circle)	Good Fair Poor
	Describe	



Virginia State University, VA 23806 Phone: (804)524-3971

Fax: (804)524-5383

Structure Condition (Circle)	Good	Fair	Poor	
Describe				
Notable Biology (animals, insects, plants, etc.) Describe:				
Receiving Stream Name	Fleets	Boar	eh	
Notes/Necessary Action:	4.	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		
Certification:  If no action is required, certify the following:  "I certify that the outfall inspection is complete and that no illicit disc	charge is evident a	at this time. $\frac{3}{23}$	12015	
Signature of Inspector		Date		
If illicit discharge investigation is required, provide a time frame for included by Document all steps utilized to eliminate the illicit discharge to include three separate investigation with the appropriate documentation.			ermittent disc	harges require
Upon illicit discharge elimination, re-inspect and certify the following	g:			
"I certify that the illicit discharge has been eliminated, documented,	and that no additi	onal action	is necessary a	t this time."
Signature of Inspector		Date		
Next inspection date:				



Outfall 10 - #328



Outfall 10 - #329



Virginia State University, VA 23806

Phone: (804)524-3971 Fax: (804)524-5383

Outfall ID #		Inspection Date:	Inspector:	PI	noto #'s:		
		3/23/2015	E. Gallegher		noto #'s: 330	331	
			Chelson		-		
		End of Pipe Diameter	37'		pe Material  Concrete		
Outfal	n (	Circular		,	PVC		
Description  Date of Last Rainfall		Elliptical			Steel		
Descripti	.017	Box		0	ther:		
		Other:			iller.		
Date of Last Rain	nfall		st Rainfall (in.)	Estimated [	ischarge Rate		
3/20/		Q. 7		Latimateu L	ischarge Nate	1	
Weather Inform						1	
		nd.com/history/airport,	/KRIC/2014			Visual Oh	servations
11ccp.// www.wui	ndergrou	Outfall Submerged?	Y N	FI	ow Present ?	YISGATOS	N
		If yes, (Circle):			idth of Water Su	urface	
		Water:		\ \alpha	oproximate Dept	h of Water (ft )	. 5"
					oproximate Flow		
		Fully					
		Partially			proximate Flow		
		Sediment:			ow Color/Clarity	(Check all that	apply):
		Fully			ear		
		Partially	U /OL L U.J.		uddy		
Finding	gs	Debris Around Outfa	II (Check all that app		lilky		
		None Sediment			neen		
		Trash		30	papy Foam		
				<u> </u>	Other:		
		Other:	all that applied		ow Odor (Check	all that applyly	
		None (Check	all that apply).	4112	one	all that apply).	V
		Sediment		157.24	etroleum		-
		Trash		_	ewage		
		Other:			ther:		-
		1			Floatables		Y/N)
		Visual (	Observations (Circle)	D	eposits/Stains		(Y)N
					e posits/ Stairis		(3)/N
			Describe			1 .	1
			Describe		Sedmen	T deposi	<i>ts</i>
				-			
		Vegetati	on Condition (Circle)	E>	cessive	Inhi	bited
			Describe				
			Describe				
					1	1	
		Pi	pe Condition (Circle)	Good	Fair	Poor	
						L	
			Describe				



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

	Structure Condition (Circle)	Good	Fair	Poor	
	Describe	Cr	avK		
Notable Biolo	gy (animals, insects, plants, etc.) Describe:				
	Receiving Stream Name	Fleet	3 Bra	ench	
	ed certify the following:				
f no action is require	ed, certify the following:	harge is evident	at this time."		
	ed, certify the following: tfall inspection is complete and that no illicit disc CAMM	harge is evident	at this time." $\frac{3}{23}$	A Landan	
f no action is require		harge is evident	~ 1-	100	
f no action is require	tfall inspection is complete and that no illicit disc		3/23 Date	100	
f no action is require I certify that the out fillicit discharge involutions	tfall inspection is complete and that no illicit disc	nvestigation com	3/23 Date pletion:	12015	ges requir
f no action is require I certify that the out  f illicit discharge invented  focument all steps three separate inves	Signature of Inspector estigation is required, provide a time frame for installized to eliminate the illicit discharge to include	nvestigation com e date, time, and	3/23 Date pletion:	12015	ges requir
f no action is required to action is required to the outline of illicit discharge investigated investigation illicit discharge illic	Signature of Inspector estigation is required, provide a time frame for instituted to eliminate the illicit discharge to include tigation with the appropriate documentation.	nvestigation come date, time, and	3/23  Date  pletion: actions. Inte	ermittent dischar	



Outfall 11 - #330



Outfall 11 - #331



Virginia State University, VA 23806

Phone: (804)524-3971 Fax: (804)524-5383

Outfall ID # 12	Inspection Date: Inspector:	Photo #'s: 332, 333		
	3/23/2015 E. Gallagher	332,333		
	C. Nelson			
	2 - 11	Pipe Material		
	End of Pipe Diameter:	✓ Concrete		
Outfall	✓ Circular	PVC		
Description	Elliptical	Steel		
·	Вох	Other:		
	Other:			
Date of Last Rainfall	Quantity of Last Rainfall (in.)	Estimated Discharge Rate		
3/20/2015	0.74			
Weather Information Car				
http://www.wundergrou	nd.com/history/airport/KRIC/2014	Visual Observations	s	
1	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):		
		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		
	Fully	Clear		
	Partially	Muddy		
Findings	Debris Around Outfall (Check all that app None	ly): Milky Sheen		
	Sediment	Soapy Foam		
	Trash	Joapy i dain		
	Other:	Other:		
	Debris in Pipe (Check all that apply):	Flow Odor (Check all that apply):		
	None	None Cool (Check all that apply).		
	Sediment	Petroleum		
	Trash	Sewage		
	Other:	Other:	_	
		Floatables VAN		
	Visual Observations (Circle)	Deposits/Stains (V)N	_	
		Deposits/ Stallis	_	
	Describe	1.		
	Describe	Stains in pipe		
	Vegetation Condition (Circle)	Excessive Inhibited		
	Describe			
	Pipe Condition (Circle)	Good Fair Poor		
	Describe			
	2 232,182			



Virginia State University, VA 23806

Phone: (804)524-3971

Fax: (804)524-5383

Structure Condition (Circle)	Good	Fair	Poor	
Describe				
Notable Biology (animals, insects, plants, etc.) Describe:				
Receiving Stream Name	Fleets	Bra	neh	
Certification:  If no action is required, certify the following:  "I certify that the outfall inspection is complete and that no illicit di	ischarge is evident a	N 2	Cartina and an a	
Signature of Inspector		3/23 Date	12015	
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	r investigation comp	letion:	ermittent disc	harges require
"I certify that the illicit discharge has been eliminated, documented	d, and that no addition	onal action	is necessary a	t this time."
Signature of Inspector	-	Date		
Next inspection date:				



Outfall 12 - #332



Outfall 12 - #333



Virginia State University, VA 23806

Phone: (804)524-3971 Fax: (804)524-5383

Outfall ID #	13	Inspection Date:	Inspector:		Photo #'s:	/		
		3/23/2015 E. Ballagher 33			334	+		
			C. Nelson					
		End of Pipe Diameter:	16"		Pipe Material			
		End of Pipe Diameter.	10	_	★ Concrete			
Outfall		× Circular			PVC			
Descrip	ption	Elliptical			Steel			
		Вох			Other:			
		Other:						
Date of Last Ra	ainfall	Quantity of Las	t Rainfall (in.)	Estimate	d Discharge Rate			
3/201	12015	0.70	1			1		
Weather Infor	mation Car					1		
http://www.w	undergrou	nd.com/history/airport/k	(RIC/2014			Visual Observations		
		Outfall Submerged?	Y N	)	Flow Present ?	Y (N)		
		If yes, (Circle):			Width of Water S	urface		
		Water:			Approximate Dep	th of Water (ft.):		
		Fully			Approximate Flov			
		Partially			Approximate Flov			
		Sediment:						
		Fully		Flow Color/Clarity (Check all that apply): Clear				
		Partially		Muddy				
e			(Check all that any	w.	Milky			
Findings	Debris Around Outfall (Check all that apply): None		Sheen					
	Sediment		_	Soapy Foam				
		Trash						
		Other:			Other:			
		Debris in Pipe (Check a	all that apply):		Flow Odor (Check	all that anniv):		
		None	Tripe (eneck all charappiy).		None	an criac apply).		
		Sediment			Petroleum Sewage			
		Trash						
		Other:			Other:	-		
		-!			Floatables	Y/N		
		Visual Ol	oservations (Circle		Deposits/Stains	Y/N)		
					o aposito, otamo	1 10		
			Describe					
			2 2222					
				1		1		
		Vegetation	Condition (Circle	)	Excessive	Inhibited		
				1				
			Dosariba					
			Describe					
				-		1 1		
		Pipe	e Condition (Circle	) Go	od (Fair)	Poor		
			Describe	2				
				P				



Virginia State University, VA 23806

Structure Condition (Circle)	Good	Fair	Poor	
Describe				
Notable Biology (animals, insects, plants, etc.) Describe:				
Receiving Stream Name	Appom	attox	River	
Certification:				
If no action is required, certify the following:				
"I certify that the outfall inspection is complete and that no illicit disci	harge is evident a	t this time."		
Signature of Inspector		3/23/ Date	2015	- 1
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.			rmittent disch	narges require
Upon illicit discharge elimination, re-inspect and certify the following:	:			
"I certify that the illicit discharge has been eliminated, documented, a	ind that no additi	onal action i	s necessary at	this time."
Signature of Inspector		Date		
Next inspection date:				



Outfall 13 - #334



Virginia State University, VA 23806

Phone: (804)524-3971 Fax: (804)524-5383

Outfall ID # 4	Inspection Date: Inspector:	Photo #'s:		
	3/23/2015 E. Gallagher	335, 336		
	C. Nelson			
	End of Pipe Diameter: 18"	Pipe Material		
	End of Pipe Diameter.	✓ Concrete		
Outfall	X Circular	PVC		
Description	Elliptical	Steel		
	Вох	Other:		
	Other:			
Date of Last Rainfall		stimated Discharge Rate		
3/20/2015	0.74	9		
Weather Information C				
	ound.com/history/airport/KRIC/2014	Visual Observations		
g	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		
	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:		
	Visual Observations (Circle)	Floatables Y/N		
		Deposits/Stains Y/N		
	Describe			
	Vegetation Condition (Circle)	Excessive Inhibited		
	vegetation condition (circle)	Excessive		
		•		
	Describe			
	B1 0 B1 40 11			
	Pipe Condition (Circle)	Good Fair Poor		
	Describe			



Virginia State University, VA 23806

Structure Condition (Circle)	Good	Fair	Poor	
Describe				
Notable Biology (animals, insects, plants, etc.) Describe:				
Receiving Stream Name	Appon	attox R	 Nur	
Notes/Necessary Action:				
Certification:  If no action is required, certify the following:  "I certify that the outfall inspection is complete and that no illicit disc	charge is evident a		2015	
Signature of Inspector		Date		
If illicit discharge investigation is required, provide a time frame for i	investigation comp	oletion:		
Document all steps utilized to eliminate the illicit discharge to includ three separate investigation with the appropriate documentation.	e date, time, and	actions. Inter	rmittent disch	narges require
Upon illicit discharge elimination, re-inspect and certify the following	g:			
"I certify that the illicit discharge has been eliminated, documented,	and that no addit	ional action is	s necessary at	t this time."
Signature of Inspector		Date		
Next inspection date:				



Outfall 14 - #335



Outfall 14 - #336



Virginia State University, VA 23806

Phone: (804)524-3971 Fax: (804)524-5383

Outfall ID #	Inspection Date: Inspector:	Photo #'s:		
	3/23/2015 E. Gallagher			
i-	C. Nelson			
	End of Pipe Diameter:	Pipe Material		
		Concrete		
Outfall	X Circular	▼ PVC		
Description	Elliptical	Steel		
	Вох	Other:		
	Other:			
Date of Last Rainfall		Estimated Discharge Rate		
3/20/2015	0.74			
Weather Information Ca		Nr. 101		
nttp://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)	Muddy		
Findings	Debris Around Outfall (Check all that appl			
	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:		
	Visual Observations (Circle)	Floatables Y(N)		
		Deposits/Stains YN		
	Describe	Half underground		
	Vegetation Condition (Circle)	Excessive Inhibited		
	Describe	Roots		
	Pipe Condition (Circle)	Good Fair Poor		
	Describe			



Virginia State University, VA 23806

Structure Condition (Circle)	Good	Fair	Poor	
Describe				
Notable Biology (animals, insects, plants, etc.) Describe:				
Receiving Stream Name	Appomo	Hox R	wer	
Notes/Necessary Action:				
Certification:				
If no action is required, certify the following:				
"I certify that the outfall inspection is complete and that no illicit dis	charge is evident a	t this time."		
_ Ch M		3/23/	2015	
Signature of Inspector		Date		
If illicit discharge investigation is required, provide a time frame for i	investigation comp	letion:		
Document all steps utilized to eliminate the illicit discharge to includ three separate investigation with the appropriate documentation.	e date, time, and a	actions. Inte	rmittent disch	arges require
Upon illicit discharge elimination, re-inspect and certify the following	g;			
"I certify that the illicit discharge has been eliminated, documented,	and that no additi	onal action i	s necessary at	this time."
Signature of Inspector		Date		
Next inspection date:				



Outfall 16 – #337



Outfall 16 - #338



Outfall 16 - #339



Virginia State University, VA 23806 Phone: (804)524-3971

Fax: (804)524-5383

Outfall ID #	Inspection Date: Inspector:	Photo #'s:
	3/23/2015 E. Gallegher	340
	C. Nelso.	1.00
	End of Pipe Diameter:	Pipe Material  Concrete
Outfall	V Iciaanian	PVC
	X Circular	
Description	Elliptical	Steel
	Box	Other:
D	Other:	
Date of Last Rainfall	Quantity of Last Rainfall (in.) E	stimated Discharge Rate
3/20/2015	2:11	
Weather Information Ca		Vr. 101
nttp://www.wundergrou	und.com/history/airport/KRIC/2014	Visual Observations
	Outfall Submerged? Y	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	
Filluligs	None	Sheen
	Sediment	X Soapy Foam
	Trash	V
	Other:	Other:
	Debris in Pipe (Check all that apply):	Flow Odor (Check all that apply):
	None	None
	Sediment	V Petroleum
	Trash	X Sewage
	Other:	Other:
		Floatables Y/N
	Visual Observations (Circle)	Deposits/Stains Y/N
		Deposits/ Stains
	Describe	
	Vegetation Condition (Circle)	Excessive Inhibited
	Describe	
	Pipe Condition (Circle)	Good Fair Poor
	Describe	



Virginia State University, VA 23806

Structure Condition (Circle)	Good	Fair	Poor	
Describe				
Notable Biology (animals, insects, plants, etc.) Describe:				
Receiving Stream Name	Appom	attox 1	River	
Notes/Necessary Action:	1,1			
Certification:  If no action is required, certify the following:				
"I certify that the outfall inspection is complete and that no illicit dis	scharge is evident a	t this time."	ı	
Ch M		3/23/		
Signature of Inspector		Date		
If illicit discharge investigation is required, provide a time frame for	investigation comp	letion:		
Document all steps utilized to eliminate the illicit discharge to include three separate investigation with the appropriate documentation.	de date, time, and a	ctions. Inte	ermittent disch	narges require
Upon illicit discharge elimination, re-inspect and certify the following	g:			
"I certify that the illicit discharge has been eliminated, documented,	, and that no addition	onal action i	is necessary at	this time."
Signature of Inspector		Data	_	
Signature of inspector		Date		
Next inspection date:				



Outfall 17 – #340



Virginia State University, VA 23806 Phone: (804)524-3971

Fax: (804)524-5383

Outfall ID #	18	Inspection Date: Inspector:	Photo #'s:		
	17	3/23/2015 E Gallagher	341,342,343		
		C. Nelson			
		End of Pipe Diameter: 30"	Pipe Material		
		End of Pipe Diameter: 30	✓ Concrete		
Outf	all	X Circular	PVC		
Descrip	otion	Elliptical	Steel		
		Вох	Other:		
		Other:			
Date of Last Ra	infall	Quantity of Last Rainfall (in.) Es	timated Discharge Rate		
3/20/2	015	0.74	2 - 1		
Weather Infor	mation Ca	n Be Found @:			
http://www.w	undergro	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	Muddy		
e		Debris Around Outfall (Check all that apply):	Milky		
Findings		None	Sheen		
	Sediment	X 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:		
		Missas I Ohaan astiana (Girala)	Floatables Y/N		
		Visual Observations (Circle)	Deposits/Stains (Y/N		
		Describe	Broken, Under Tree		
		Vegetation Condition (Circle)	Inhibited		
		Describe	Under Tree		
		Pipe Condition (Circle)	Good Fair Poor		
		Describe			



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

Phone: (804)524-3971

Fax: (804)524-5383 Structure Condition (Circle) Good Fair Poor Describe Tree Appointed River Notable Biology (animals, insects, plants, etc.) Describe: **Receiving Stream Name** Notes/Necessary Action: 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." Signature of Inspector Date If illicit discharge investigation is required, provide a time frame for investigation completion: Document all steps utilized to eliminate the illicit discharge to include date, time, and actions. Intermittent discharges require 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, and that no additional action is necessary at this time." Signature of Inspector Date

Next inspection date:



Outfall 18 – #341



Outfall 18 – #342



Outfall 18 – #343



Virginia State University, VA 23806

Phone: (804)524-3971 Fax: (804)524-5383

Outfall ID #	Inspection Date: Inspector:	Photo #'s:			
	3/23/2015 F. Gallagher	357,358,359			
	C. Nusan				
	End of Pipe Diameter: 12	Pipe Material			
Outfall	✓ Circular	Concrete PVC			
Description					
Description	Elliptical	Steel			
	Box	Other:			
Data of Last Ballet III	Other:				
Date of Last Rainfall		stimated Discharge Rate			
3/20/2015					
Weather Information Ca					
http://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):			
	Sediment:	Flow Color/Clarity (Check all that apply):			
	Fully	Clear			
	Partially	Muddy			
	Debris Around Outfall (Check all that apply				
Findings	None	): Milky Sheen			
	Sediment				
	Trash	Soapy Foam			
		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 YN			
		Deposits/Stains Y/N			
	Describe				
	Vegetation Condition (Circle)	Excessive			
	Describe				
	Pipe Condition (Circle)	Good Fair Poor			
	Describe				



Virginia State University, VA 23806 Phone: (804)524-3971

Fax: (804)524-5383

Structure Condition (Circle)	Good	Fair	Poor	
Describe				
Notable Biology (animals, insects, plants, etc.) Describe:				
Receiving Stream Name	Aggas	nattor	Rover	
Notes/Necessary Action:	TOPPO	W IIO K	11110	
Certification:  If no action is required, certify the following:  "I certify that the outfall inspection is complete and that no illicit disc  Signature of Inspector	charge is evident a		." /2015	
If illicit discharge investigation is required, provide a time frame for i	nvestigation com	oletion:		
Document all steps utilized to eliminate the illicit discharge to includ three separate investigation with the appropriate documentation.	e date, time, and	actions. In	termittent disch	narges require
Upon illicit discharge elimination, re-inspect and certify the following	ζ:			
"I certify that the illicit discharge has been eliminated, documented,	and that no addit	ional actior	is necessary at	this time."
Signature of Inspector		Date		
Next inspection date:				



Outfall 19 – #357



Outfall 19 - #358



Outfall 19 – #359



Virginia State University, VA 23806

Phone: (804)524-3971 Fax: (804)524-5383

Outfall ID # 20	Inspection Date: Inspector:	Photo #'s:			
	3/23/2015 E. Gallagher	361			
	C. Nelson				
	End of Pipe Diameter: 5 13	Pipe Material			
	End of Pipe Diameter.	Concrete			
Outfall	★ Circular	PVC			
Description	Elliptical	★ Steel			
	Вох	Other:			
	Other:				
Date of Last Rainfall		stimated Discharge Rate			
3/20/2015	0.74	-			
Weather Information C					
	ound.com/history/airport/KRIC/2014	Visual Observat	tions		
recept/ www.amacigic	Outfall Submerged? Y	Flow Present ? Y N	1)		
	If yes, (Circle):	Width of Water Surface	2		
	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)				
	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:			
	Visual Observations (Circle)	Floatables Y/N			
	Visual Observations (Circle)	Deposits/Stains Y/N	)		
	Describe				
	Vegetation Condition (Circle)	Excessive Inhibited			
	Describe				
	Pipe Condition (Circle)	Good Fair Poor			
	Describe				
	5 530 100				



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

	1			1
Structure Condition (Circle)	Good	Fair	Poor	
Describe				
Notable Biology (animals, insects, plants, etc.) Describe:				
Receiving Stream Name	Appon	a Hox	River	
Certification:  If no action is required, certify the following:				
"I certify that the outfall inspection is complete and that no illicit di	scharge is evident a	t this time "		
Che M	scharge is evident a	3/23/		
Signature of Inspector	7	Date		
If illicit discharge investigation is required, provide a time frame for	investigation comp	letion:		
Document all steps utilized to eliminate the illicit discharge to inclu three separate investigation with the appropriate documentation.	de date, time, and a	ctions. Inte	ermittent disc	harges require
Upon illicit discharge elimination, re-inspect and certify the following	ng:			
"I certify that the illicit discharge has been eliminated, documented	l, and that no addition	onal action i	is necessary a	t this time."
Signature of Inspector		Date	_	
Next inspection date:				



Outfall 20 - #361



Virginia State University, VA 23806 Phone: (804)524-3971

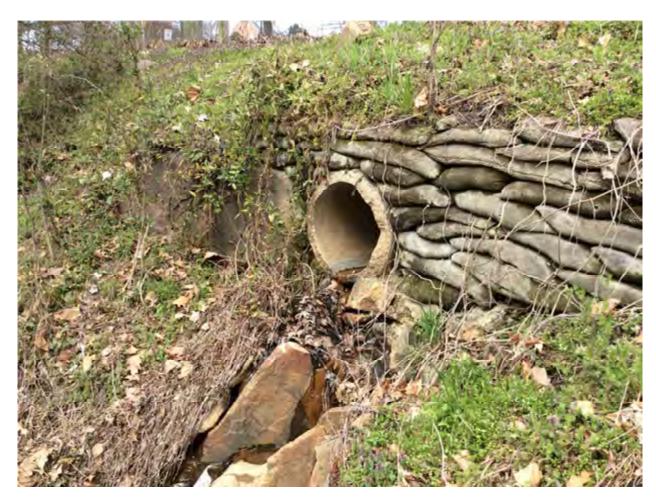
Fax: (804)524-5383

Outfall ID # 2	Inspection Date: Inspector:	Photo #'s:			
	3/23/2015 E. Galleghu	563			
	C. Nelson				
	End of Pipe Diameter:   811	Pipe Material			
	end of Pipe Diameter.	✓ Concrete			
Outfall	★ Circular	PVC			
Description	Elliptical	Steel			
	Вох	Other:	Other:		
	Other:				
Date of Last Rainfall		stimated Discharge Rate			
3/20/2015	0,74				
Weather Information Ca					
http://www.wundergrou	und.com/history/airport/KRIC/2014		Visual Observations		
	Outfall Submerged? Y	Flow Present ?	(Y) N		
	If yes, (Circle):	Width of Water Sur	face		
	Water:	Approximate Depth	Approximate Depth of Water (ft.):,		
	Fully	Approximate Flow	Velocity (ft./s): Trickle		
	Partially				
		Approximate Flow			
	Sediment:		Check all that apply):		
	Fully	Clear			
	Partially	Muddy			
Findings	Debris Around Outfall (Check all that apply		Milky		
	None	Sheen			
	Sediment	Soapy Foam	Soapy Foam		
	Trash	Other:	Other:		
	Other:		Hali a IX		
	Debris in Pipe (Check all that apply):	Flow Odor (Check a	Il that apply):		
	None	X None X			
	Sediment	Petroleum Sewage			
	Trash				
	Other:	Other:	1		
	Visual Observations (Circle)	Floatables	Y/N		
		Deposits/Stains	YN		
	Describe				
	Vegetation Condition (Circle)	Excessive	Inhibited		
	vegetation condition (entite)	EXCESSIVE	minibited		
	Describe				
	Pipe Condition (Circle)	Good Fair	Door		
	Pipe Condition (Circle)	Good Fair	Poor		
	Danadha				
	Describe				



Virginia State University, VA 23806

Structure Condition (Circle)	Good	Fair	Poor	
Describe				
Notable Biology (animals, insects, plants, etc.) Describe:				
Receiving Stream Name	Appon	a Hox	River	
Notes/Necessary Action:			- •	
Certification:  If no action is required, certify the following:				
"I certify that the outfall inspection is complete and that no illicit disc	charge is evident at	this time.'	· ·	
a M		3/23	12015	
Signature of Inspector	C	Date		
If illicit discharge investigation is required, provide a time frame for in	nvestigation compl	etion:		
Document all steps utilized to eliminate the illicit discharge to include three separate investigation with the appropriate documentation.	e date, time, and a	ctions. Inte	ermittent disch	arges require
Upon illicit discharge elimination, re-inspect and certify the following	g:			
"I certify that the illicit discharge has been eliminated, documented,	and that no additic	nal action	is necessary at	this time."
Signature of Inspector		ate		
Next inspection date:				



Outfall 21 - #363



Virginia State University, VA 23806 Phone: (804)524-3971

Fax: (804)524-5383

Outrail ID # / Z	Inspection Date: Inspector:	Photo #'s:			
	3/23/2015 E.Gallagher	365			
	C. Nelson				
	1011	Pipe Material			
	End of Pipe Diameter:	✓ Concrete			
Outfall	× Circular	PVC			
Description	Elliptical	Steel			
Description	Вох				
		Other:			
0	Other:				
Date of Last Rainfall		stimated Discharge Rate			
3/20/2015	0.74				
Weather Information Ca	_				
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 Sur	rface 📆		
	Water:	Approximate Depti	Approximate Depth of Water (ft.): 5		
	Fully		Velocity (ft./s): 2 ft/s		
	·				
	Partially		Rate (cfs): . 049		
	Sediment:		(Check all that apply):		
	Fully		Clear		
	Partially	Muddy			
Findings	Debris Around Outfall (Check all that apply	): Milky			
	None	Sheen	Sheen		
	Sediment	Soapy Foam	Soapy Foam		
	Trash	The state of the s	Other		
	Other:	Other:			
	Debris in Pipe (Check all that apply):	Flow Odor (Check a	all that apply):		
	None	X None	X		
	Sediment	Petroleum Sewage			
	Trash				
	Other:	Other:	0.040		
	outer	Floatables	V/O		
	Visual Observations (Circle)		YN		
		Deposits/Stains	(Y)N		
		<			
	Describe	Some st	ainl		
			- 11772		
	Vagatation Condition (Circle)	Evennelve	In hibita d		
	Vegetation Condition (Circle)	Excessive	Inhibited		
	Describe				
	5 6501150				
	Pipe Condition (Circle)	(Good) Fair	Poor		
	Describe				



Virginia State University, VA 23806

Structure Condition (Circle)	Good	Fair	Poor	
Describe				
Notable Biology (animals, insects, plants, etc.) Describe:				
Receiving Stream Name	Appon	attox (	Q ivec	
Certification:				
If no action is required, certify the following:				
"I certify that the outfall inspection is complete and that no illicit dis	scharge is evident		6/2015	
Signature of Inspector		Date		
If illicit discharge investigation is required, provide a time frame for 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	de date, time, and		ermittent disch	narges require
"I certify that the illicit discharge has been eliminated, documented,		ional action	is necessary at	this time."
Signature of Inspector		Date	_	
Next inspection date:				



Outfall 22 - #365

#### Appendix MCM 4

#### **Matthew Webb**

From: Amelia Wehunt

Sent: Wednesday, August 26, 2015 1:57 PM

**To:** Matthew Webb

**Subject:** FW: VSU Annual Standards for ESC & SW

Follow Up Flag: Follow up Flag Status: Flagged

#### Amelia Wehunt, PE

Project Manager

TIMMONS GROUP | www.timmons.com

1001 Boulders Parkway, Suite 300 | Richmond, VA 23225

Office: 804.200.6544 | Fax: 804.560.1438

Mobile: 804.517.4996 | amelia.wehunt@timmons.com

LinkedIn: www.linkedin.com/in/ameliawehunt

Your Vision Achieved Through Ours

To send me files greater than 20MB click here.

From: Gavan, Larry (DEQ) [mailto:Larry.Gavan@deq.virginia.gov]

Sent: Tuesday, June 30, 2015 8:31 AM

To: Amelia Wehunt

Cc: Jonathan A. Taylor; McCutcheon, John (DEQ); Westermann, Pantea (DEQ)

Subject: RE: VSU Annual Standards for ESC & SW

Due to the ongoing changes effecting erosion and sediment control (ESC) and stormwater management (SWM), the Department will be administratively extending your previously approved Annual Standards and Specifications till 12/31/15. On the right side of the webpage found at this link please find the Statutory and Regulatory Crosswalks:

http://www.deq.virginia.gov/Programs/Water/StormwaterManagement.aspx

These Crosswalks were developed to assist those navigating our changing ESC and SWM environment.

Please continue to notify the DEQ with the required project information as per the approved Annual Standards and Specifications prior to initiating land-disturbance.

Hope this helps.

If you should have any questions please do not hesitate to contact me.

Thank you.

Regards,

Larry Gavan

Virginia Department of Environmental Quality

(804) 698-4040

From: Amelia Wehunt [mailto:amelia.wehunt@timmons.com]

Sent: Tuesday, June 30, 2015 8:20 AM

To: Gavan, Larry (DEQ)

Cc: Jonathan A. Taylor; McCutcheon, John (DEQ); Westermann, Pantea (DEQ)

Subject: RE: VSU Annual Standards for ESC & SW

Thanks Larry—please provide the extension documentation needed to show that VSU is in compliance.

We will plan to re0submit in the late fall.

#### Amelia Wehunt, PE

Project Manager

TIMMONS GROUP | www.timmons.com

1001 Boulders Parkway, Suite 300 | Richmond, VA 23225

Office: 804.200.6544 | Fax: 804.560.1438

Mobile: 804.517.4996 | amelia.wehunt@timmons.com

LinkedIn: www.linkedin.com/in/ameliawehunt

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From: Gavan, Larry (DEQ) [mailto:Larry.Gavan@deq.virginia.gov]

Sent: Tuesday, June 30, 2015 7:34 AM

To: Amelia Wehunt

Cc: Jonathan A. Taylor; McCutcheon, John (DEQ); Westermann, Pantea (DEQ)

Subject: RE: VSU Annual Standards for ESC & SW

P.S. there is no charge for the extension.

Thx Larry

804 698-4040

From: Gavan, Larry (DEQ)

Sent: Wednesday, June 24, 2015 6:57 AM

To: 'Amelia Wehunt'

Cc: Jonathan A. Taylor; McCutcheon, John (DEQ); Westermann, Pantea (DEQ)

Subject: RE: VSU Annual Standards for ESC & SW

Hi Amelia,

DEQ is extending previously approved Ann. Stds. and Specs. till 12/31/15.

Please submit an e-request for an extension.

Thx

L

From: Amelia Wehunt [mailto:amelia.wehunt@timmons.com]

Sent: Tuesday, June 23, 2015 5:19 PM

To: Gavan, Larry (DEQ)

Cc: Jonathan A. Taylor; McCutcheon, John (DEQ); Westermann, Pantea (DEQ)

Subject: RE: VSU Annual Standards for ESC & SW

Larry,

Attached please find VSU's 2015 Combined Annual Standards and Specifications for ESC & SW for your review.

Please let us know if you have any comments or upon approval.

Thanks,

Amelia

#### Amelia Wehunt, PE

Project Manager

TIMMONS GROUP | www.timmons.com

1001 Boulders Parkway, Suite 300 | Richmond, VA 23225

Office: 804.200.6544 | Fax: 804.560.1438

Mobile: 804.517.4996 | amelia.wehunt@timmons.com

LinkedIn: www.linkedin.com/in/ameliawehunt

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To send me files greater than 20MB click here.

From: Gavan, Larry (DEQ) [mailto:Larry.Gavan@deq.virginia.gov]

Sent: Thursday, April 16, 2015 2:38 PM

To: Amelia Wehunt

Cc: Jonathan A. Taylor; McCutcheon, John (DEQ); Westermann, Pantea (DEQ)

Subject: RE: VSU Annual Standards for ESC & SW

Hi Amelia,

Due to the ongoing changes effecting erosion and sediment control (ESC) and stormwater management (SWM), the Department will be administratively extending your previously approved Annual Standards and Specifications till 7/1/15. On the right side of the webpage found at this link please find the Statutory and Regulatory Crosswalks:

http://www.deq.virginia.gov/Programs/Water/StormwaterManagement.aspx

These Crosswalks were developed to assist those navigating our changing ESC and SWM environment.

Please continue to notify the DEQ with the required project information as per the approved Annual Standards and Specifications prior to initiating land-disturbance.

Hope this helps.

If you should have any questions please do not hesitate to contact me.

Thank you. Regards,

Larry Gavan

Virginia Department of Environmental Quality

(804) 698-4040

From: Amelia Wehunt [mailto:amelia.wehunt@timmons.com]

Sent: Thursday, April 16, 2015 2:33 PM

**To:** Gavan, Larry (DEQ) **Cc:** Jonathan A. Taylor

Subject: RE: VSU Annual Standards for ESC & SW 2015-Submittal

Hi Larry,

Per our discussion, please grant VSU an extension of their current 2014 Combined Annual Standards and Specifications for ESC & SW through June 20, 2015, and we will resubmit the 2015 standards for review on/around June 1, 2015 for review and approval.

Thank you,

Amelia

#### Amelia Wehunt, PE

Project Manager

#### TIMMONS GROUP | www.timmons.com

1001 Boulders Parkway, Suite 300 | Richmond, VA 23225

Office: 804.200.6544 | Fax: 804.560.1438

Mobile: 804.517.4996 | amelia.wehunt@timmons.com

LinkedIn: www.linkedin.com/in/ameliawehunt

Your Vision Achieved Through Ours

To send me files greater than 20MB click here.

From: Amelia Wehunt

**Sent:** Thursday, April 16, 2015 2:11 PM **To:** larry.gavan@deg.virginia.gov

Cc: Jonathan A. Taylor

Subject: VSU Annual Standards for ESC & SW 2015-Submittal

Larry,

Attached please find VSU's 2015 Combined Annual Standards and Specifications for ESC & SW for your review.

Please let us know if you have any comments or upon approval.

Thanks,

Amelia

#### Amelia Wehunt, PE

Project Manager

#### TIMMONS GROUP | www.timmons.com

1001 Boulders Parkway, Suite 300 | Richmond, VA 23225

Office: 804.200.6544 | Fax: 804.560.1438

Mobile: 804.517.4996 | amelia.wehunt@timmons.com

LinkedIn: www.linkedin.com/in/ameliawehunt

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# 2015 Land Disturbing Activities

(\*) Indicates activity started within 2014-2015 Annual Reporting Period.

	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
*	Dupuy Parking Lot	VSU 475 Dupuy Avenue	Construct a new 150 space parking lot northeast of the new Gateway II Residence Hall	2.5	May 1, 2015	December 31, 2015	W M Jordan	TBD	TBD	W M Jordan	VAR10C- 306
*	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, 2019, with renewal anticipated	As noted by project below	As noted below by project	As noted by project below	Jonathan Taylor 804-524-5534	New VAR10- 9268 Old VAR10-13- 100047
	Athletic Trunk Line	VSU Campus	Install a new 60 inch storm line from Fleets Branch Creek to the Multipurpose Center to improve drainage at the Athletic Fields	2.59	May 1, 2014	June 1, 2015	Mark Eanes	804-658- 7128	39525	Dickerson Construction	Has coverage under: New VAR10- 9268 Old VAR10-13- 100047
*	Lockett Hall Renovation	Myster Macklin Street	Perform a complete renovation to the existing Lockett Hall Academic Building	1.42	February 1, 2015	February 1, 2016	W M Jordan	TBD	TBD	W M Jordan	Has coverage under: New VAR10- 9268 Old VAR10-13- 100047

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
Matoaca Water Tank and Pump Station	3001 River Road	Install a new water tank and pump station	1.73	May 1, 2014	November 1, 2015	TBD	TBD	TBD	TBD	VAR10D- 331
Gateway Dining and Events Hardscape	Gateway Dining & Events Center	Install hardscape improvements at the Gateway Dining and Events Center	TBD	TBD	TBD	TBD	TBD	TBD	TBD	Will have coverage under: New VAR10- 9268 Old VAR10-13- 100047
Gateway Dining and Events BMP Conversion	Gateway Dining & Events Center	Convert existing surface BMP to an underground detention facility behind VSU dining and events center.	0.70	TBD	TBD	TBD	TBD	TBD	TBD	Will have coverage under: New VAR10- 9268 Old VAR10-13- 100047
Trunk Storm Extension Phase III & IV	VSU Campus	Install a new storm line from Barnes Street north of Trinkle Hall to Daniel's Gym where the line will tie into the Phase I&2 Trunk Line.	3.56	TBD	TBD	TBD	TBD	TBD	TBD	Will have coverage under: New VAR10- 9268 Old VAR10-13- 100047



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## **INSPECTION REPORT**

Project Na	ame <u>: Randolph</u>	Farm Gre	enhouse i	Addition	Project Author	ority <u>: Jonathar</u>	n Taylor/I	Director C.O.		
RLD Nam	ne <u>: Jason Porter</u>	field			RLD No. <u>: 39</u>	962				
Project Lo	ocation <u>: VSU Ra</u>	indolph F	arm Greer	nhouse	Project No: 2	212-A2212-010	0			
Inspector	Name: Jason M	lacDonald	<u> </u>		Inspection D	ate <u>: 09/11/14</u>	_Time <u>: 1</u>	1:15 p.m.		
Previous	violation(s) beer	n correcte	d:	YES or	□NO					
			STAG	E OF CONS	TRUCTION					
Pre-Cor	nstruction Conferenc Clearing & Grubbir Rough Gradir	ng 🔲		Finis	nstruction   h Grading   abilization	Mainte		WM Facilities   WM Facilities		
Item#	State/Local	Viol	ation	Descriptio	n and Locatior	of Problem/Vi	iolation <sup>(2)</sup> ,	Required or		
nem#	Regulation <sup>(1)</sup>	Initial	Repeat			Actions, and (				
1	MS-3	N/A				tering of areas germination an				
2	Remove the section of silt fence along the and south side of the building at the foot of the slope. Touch up the grade and apply final seed to this area if needed after the silt fence is removed.									
3	Spec 3.20	Х		of the buildin	g to match the	uality check dan e Rip Rap Wate wer in the cent	er Quality	Check Dam		
2. No REQUIRED  The require constitute COMPLY,	efers to applicable regulations (9VAC25 and Specifications for ote whether or not of the control	i-840), Virgii ESC iff-site dama ACTION D on deadline and/or req DRDER, ai	nia Stormwa  age resulting  DEADLINE I  e date appli uired corre  nd/or other	from the proble  DATE:  (D  ies to all viola ective actions	nt Permit Regular m/violation was  N/A  D/MM/YY)  tions noted on are not comp	evident during the _Re-inspection this report. If listed by the co	70), or Annie inspection  Date:  sted violat deadline,	ual Standards n.  09/26/14 (DD/MM/YY)  cion(s) currently a NOTICE TO		
Acknowled	lgement of on-site re	eport receip			Cincol			240		
This report	t will be provided to	the following	Print Name g parties via		Signature mail within 24 ho	urs of inspection:		ate		

Version: 2014 1 of 2



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## **SITE INSPECTION PHOTOS**



Fig. 1 – Check dam along east side of building that requires shaping revisions (view-east).



Fig. 2 – Check dam along east side of building that requires shaping revisions (view-east).



Fig. 3 – Recommend cutting tall grass around the greenhouse addition (view-south).



Fig. 4 – Continue to water areas where new EC mat has been installed around the building (view-east).

Version: 2014 2 of 2

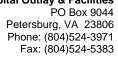




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## **EROSION & SEDIMENT CONTROL INSPECTION REPORT**

Project	Name:	Locket	t Hall Rend	ovation		RAINFALL				
Project	Code:	<u>212-17</u>	511-000		_	Date of Rain	Amount (inches	s) Initials		
Project .	Authority:	<u>Jonath</u>	<u>an Taylor/I</u>	Director C	0	4/14/2015	0.20"	DCA		
RLD Na	me/No:	Mark P	Perkinsor	RLD No:	38308					
Inspecto	or Name:	<u>Debra</u>	Albert		_					
Inspecti	on Date:	04/14/1	15	_Time: <u>3:3</u>	30pm					
Previous	s violatior	n(s) beer	n corrected	d: 📕 YE	S NO					
				07405		NIOTION.				
Pre-Cons	struction Co	nference	П		E OF CONSTE ng Construction		Construction of SV	VM Facilities □		
	Clearing & (			Ballall	Finish Grading		Maintenance of SV			
	Rough	Grading		Fii	nal Stabilization		Other: Waterproofi	ng 📕		
Item#	State/Lo	cal	Viol	ation	Descriptio	n and Location of P	rohlem/Violation/2	) Required or		
πопп	Regulation		Initial	Repeat		ded Corrective Act				
1	Spec 3.	05	IIIIIII	X	Add silt fend	e where excavati	on work is proce	eding. Fig 1		
	·				thru Fig 4					
2 Spec 3.07 X Complete the storm drain inlet protection. Silt fence was installed, sediment filter shall be added Fig 5										
3	MS17			X		ort of soil and mu		adways		
3	WIGT					ntrolled? NO, the				
						ig 6 and Fig 7. A		•		
4										
5										
	(9VAC25-8 for ESC.	40), Virgin	ia Stormwate	er Managem	ent Permit Regul	tion of the Virginia Ero ations (9VAC25-870),	or Annual Standards	s and Specifications		
2.	Note wheth	er or not c	off-site damaç	ge resulting f	rom the problem	violation was evident	during the inspection	1.		
REQUIR	ED CORR	ECTIVE	ACTION DE	EADLINE D	OATE: <u>04/14/20</u> (DD/MM/			15/2015 D/MM/YY)		
constitute	e non-con	npliance VORK OI	and/or req RDER, and/	uired corre	ective actions	ions noted on this are not completed ons may be issued	l by the deadline	e, a <b>NOTICE TO</b>		
Inspecto	r <u>:</u>	<u>Debra</u>	C Alb.	ert_		04/14/2015				
Acknowl	lodgomont s	of on site =	aport receipt:	Charlia Prac	dlov					
ACKITOWI	eugement 0	ıı orr-sile il	eport receipt:	Print Name	ш-у	Signature	Da	ate		
	ath Brubake		the following	parties via r	mail, fax, or e-ma	il within 24 hours of in	spection:			





## **SITE INSPECTION PHOTOS**

## **REPEAT VIOATIONS**



Fig 1 – Spec 3.05 West side of building



Fig 2 – Spec 3.05 West side of building



Fig 3 – Spec 3.05 East side of building



Fig 4 – Spec 3.05 North side of building.



Fig 5 Spec 3.07 West side of building

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Fig 6 MS17 East side of building

Fig 7 MS17 East side of building

# **VIOATIONS THAT WERE CORRECTED 4/13/15**



CORRECTED: Fig 1 – Spec 3.05.A-East side of building



CORRECTED: Fig 2 – Spec 3.05.A-North side of building



CORRECTED: Fig 3 – Spec 3.05.A-South side of building.



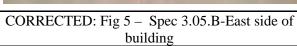
CORRECTED: Fig 4 – Spec 3.05.B-East side of building.



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CORRECTED Fig 8 – MS17-North side of building

PROJECT: Lockett Hall Renovation and Elevator Addition MONITORING FOR THE WEEK BEGINNING: April 6, 2015

#### **RAINFALL:**

Date of Rain	Amount (inches)	Initials
4/7/2015	0.11	DCA

By this signature, I certify that this report is accurate and complete to the best of my knowledge:

(Signature of Permittee or Designee)

**EROSION AND SEIDMENTATION CONTROL FACILITIES INSPECTED**: (At least once [twice, if on 303(d) listed stream for construction related parameters\*] per 14 calendar days Or within 48 hours of a runoff producing rainfall event)

Facility	Date of Inspection	Operating	Describe corrective actions taken (may need to attach additional information)				
Identification Properly (Y/N)							
4/8/2015 Y 5		Y	5:29pm – 1) Follow Up inspection on the perimeter silt fencing, accompanied by Steve Pancham (PM/MBP). WM Jordan				
h			had corrected areas of damaged silt fence from 6-13-11 report.				
			2) Inlet protection outside of fenced in area OK. 3) Construction clean				

# **OBSERVATION OF RUNOFF AT STORMWATER DISCHARGE OUTFALLS**: (At least once [twice, if on 303(d) listed stream for construction related parameters\*] per 14 calendar days Or within 48 hours of a runoff producing rainfall event)

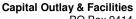
Stormwater Discharge Outfall Identification	Date	Clarity	Floating Solids	Suspended Solids	Oil Sheen	Other obvious indicators of stormwater pollution (list & describe)	Visible sediment leaving the site? (Y/N)	If yes, describe actions taken to prevent future releases (may need to attach additional information)	Describe measures taken to clean up sediment outside of the disturbed limits (may need to attach additional information)
							(1/N)		information)

*Clarity*: Choose the number which best describes the clarity of the discharge where 1 is clear and 10 is very cloudy.

Floating Solids: Choose the number which best describes the amount of floating solids in the discharge where 1 is no solids and 10 the surface is covered in floating solids.

Suspended Solids: Choose the number which best describes the amount of suspended solids in the discharge where 1 is no solids and 10 is extremely muddy.

Oil Sheen: Is there an oil sheen in the stormwater discharge? Y or N





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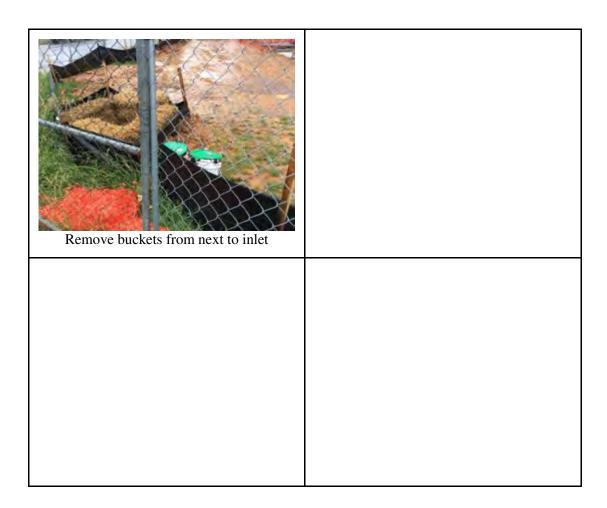
# EROSION & SEDIMENT CONTROL AND STORMWATER MANAGEMENT INSPECTION REPORT

Project N	lame:	Lockett I	<del>-l</del> all			RAINFALL		
Project C	ode:	<u>212-175</u>	11-000			Date of Rain	Amount (inche	es) Initials
Project A	uthority:	<u>Jonathar</u>	n Taylor/ D	Direction C	;O	6/3/15	0.04	EEG
RLD Nan	ne/No:	Mark Pe	rkinson Rl	LD No: 383	308	6/4/15	0.17	EEG
Inspector	r Name:	Erin Gall	lagher					
Inspectio	n Date:	6/4/15		Time: <u>10:0</u>	00 P.M.			
Previous	violation(	(s) been	corrected:	⊠ YI	ES □ NO			
				STAGE (	OF CONSTR	UCTION		
	ruction Con Clearing & G Rough (	_	] ] ]	Building Co	onstruction 🗹 Finish Grading		Maintenance of	f SWM Facilities   f SWM Facilities
Item#	State/Lo Regulati		Viola Initial	ation Repeat				on(2), Required or or Comments/Notes
1	II.A	1.4	Χ	,	Remove su	pply buckets fro	m next to inlet	
2								
3								
<u>4</u> 5								
(! fo 2. N	9VAC25-84 or ESC. Note whethe	0), Virginia	Stormwater	Managemen	nt Permit Regula	ations (9VAC25-870	), or Annual Standa	nt Control Regulations and Specifications tion.
			0		(DD/MM/`			DD/MM/YY)
constitute STOP WC on the abo	non-comp	oliance and E <b>R</b> , and/or t.	d/or require	d corrective	e actions are n	ot completed by t ssued to the entit	he deadline, a <b>NC</b>	violation(s) currently DTICE TO COMPLY ensuring compliance
Acknowl	ledgement d	of on-site re	eport receipt:	Print Name		Signature		Date
This rep	oort will be p	rovided to	the following	parties via n	nail, fax, or e-ma	ail within 24 hours o	f inspection:	

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# **SITE INSPECTION PHOTOS**







Petersburg, VA 23806 Phone: (804)524-5719 Fax: (804)524-5383

# EROSION & SEDIMENT CONTROL AND STORMWATER MANAGEMENT INSPECTION REPORT

Project Na	ame:	Multipur	ose Cent	er		RAINFALL				
Project Co	oject Code: <u>212-17665-000</u>					Date of Rain	Amount (inches)	Initials		
Project Au	uthority:	<u>Jonatha</u> ı	n Taylor/ D	irection C	0	6/3/15	0.04	EEG		
RLD Nam	ie/No:	Doug Sa	uer RLD N	No: 39518		6/4/15	0.17	EEG		
nspector	Name:	Erin Gal	agher							
Inspectior	n Date:	6/4/15		Time: <u>10:3</u>	0 P.M.					
Previous	violation	(s) been	corrected:							
		_	_		OF CONSTR	<u>UCTION</u>				
Pre-Constr Cl	earing & C	Grubbing [	] ] ]	F	Ū		Construction of SV Maintenance of SV Other:	VM Facilities ☐		
Item#	State/Lo		Viol	ation			f Problem/Violation(			
	Regulat	ion(1)	Initial	Repeat			Actions, and Other C	omments/Notes		
1	MS10			Х	•	ection at storm sewers need clean renance; some storm sewers need inlet protection				
2	SPEC	3 05		Х		iance; some sto epairs needed.	orm sewers need i	nlet protection		
3	SPEC		Х			asin need to be	stabilized			
4	0. 20	J			<u> </u>	40	<u> </u>			
5										
(9 fo 2. No	VAC25-8 <sup>2</sup> or ESC.	er or not off	Stormwater -site damage	Managemen	t Permit Regula	tions (9VAC25-870	rosion and Sediment ( ), or Annual Standards at during the inspection spection Date: 6/1	and Specifications		
NEQUINE	D CORRI	LOTIVE A	OTION DEA	ADLINE DA	(DD/MM/\			0/MM/YY)		
constitute i	non-comp <b>RK ORD</b>	oliance and <b>ER</b> , and/o	d/or require	d corrective	actions are n	ot completed by t	s report. If listed vidently the deadline, a <b>NOTI</b> y responsible for en	CE TO COMPLY		
nspector:	Erin Galla	agher			06/04/2015					
Acknowle	edgement	of on-site re	eport receipt:	Print Name				Date		
This repo	ort will be p	provided to	the following	parties via n	nail, fax, or e-ma	ail within 24 hours o	f inspection:			





## **SITE INSPECTION PHOTOS**





Clean out inlet protection



Stabilization needed



Inlet protection needs clean out and retrenched



Clean out and repair inlet protection



Trash and debris (concrete supplies) mus tbe disposed of properly

# Appendix MCM 5

#### **Matthew Webb**

From: Amelia Wehunt

Sent: Wednesday, August 26, 2015 2:06 PM

**To:** Matthew Webb

**Subject:** FW: Campus Filterra Map and Conditions for Cleanup Day

Attachments: Filterra Bioretention Systems O&M Manual.pdf; Gateway II Filterra Map.pdf; Quad II

Filterra Map.pdf

Follow Up Flag: Follow up Flag Status: Flagged

#### Amelia Wehunt, PE

Project Manager

TIMMONS GROUP | www.timmons.com

1001 Boulders Parkway, Suite 300 | Richmond, VA 23225

Office: 804.200.6544 | Fax: 804.560.1438

Mobile: 804.517.4996 | amelia.wehunt@timmons.com

LinkedIn: www.linkedin.com/in/ameliawehunt

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**From:** Jane S. Harris [mailto:jsharris@vsu.edu] **Sent:** Thursday, April 09, 2015 10:24 AM

**To:** Amelia Wehunt **Cc:** Joel Koci

Subject: FW: Campus Filterra Map and Conditions for Cleanup Day

From: Brian M. Haskins

Sent: Wednesday, April 08, 2015 10:06 AM

To: Jane S. Harris

Cc: Jonathan A. Taylor; Gilbert Hanzlik

Subject: Campus Filterra Map and Conditions for Cleanup Day

Jane,

Please see attached for the locations of the Filterras around the Quad II and Gateway II residence halls. After reviewing the conditions, there appear to be a few of them with missing trees or trees that are dead. In addition to those items, a lot of the Filterras in the parking lots have trash and a lot of sand in them from the snow removal operations. This may require some addition tools such as a shovel during cleanup.

In addition to the map, I have included the O&M manual for the units. This includes interesting facts around how the Filterra works, inspection and maintenance procedures, and maintenance reports.

Should we perform this cleanup on campus, I figured I can volunteer for four hours in the morning to help get things going.

Let me know if you have any questions.

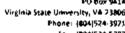
Brian M. Haskins, EIT, PSP, LEED AP BD+C VSU Capital Outlay Department (804)-524-2514 (Office) (757)-812-4511 (Cell) bhaskins@vsu.edu

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#### Filterra BMPs

#### Inspection & Maintenance Checklist

Inspector Name: / 1/-//			Type: Inlet / Roof )	 Elaci	1.2.			
BMPID#:			Date/Time: "1   30 ) 15	3126:				
Component	(Cleat	e Y/N}	Comments					
			l		-			
	<u>l</u>	nitial Observati	ions T					
Standing Water?	٧	N)						
Damage to Box Structure?	Y	<u>N</u> )						
Damage to Grate?	Y	زو						
s Bypass Clear?	<u></u>	N						
		Waste	· · · · · · · · · · · · · · · · · · ·					
Sitt/Clay?	Y							
Cups/Bags/Trash?	Y	N)						
leaves?	Υ	$\left\langle \underline{N}\right\rangle$	} ··· <del></del>		•			
Other?	Y	<u>_n</u> )	<u> </u>		i			
		Erosion Contr	ot	•				
Relling in Need of Replacement?	Y	Ň	NA .					
Stanes in Need of Replacement?	Y	٧	NA .					
		Mulch						
Depth from Top of Slab to Surface of Mulch	Inlet Filterra	Roof Filterra	Comments					
Measured (in.)		150	Motion interesting former to be continued to moviety durant		¢C = ₹\$_ \$ .			
Allowed range (n):	16" 18"	23" - 25"		'				
Notes: If measured depth exceeds the allowed range, add If there is everdence of ponding water, remove and Doingt overful unit with mulch, for inlet units, mulch should refur range, mulch should refur range, mulch should refur range.	d replace all ma not exceps bott	ich. Remove a om of inlet thro	ny accumulatesi silt that may also bi aet, and	e clogging the filter me	rdia.			
Amount of Mulch to be Added or Replaced	F., 7							
Type of Mulch to be Added or Replaced	\$15							
Date Mulch Added or Replaced:	• (A							
		Plantings						
Note. Column #1 is the plant to the left when facing the third	oat of the infet a	end column #2 :	the plant to the right when facing	the throat of the inlet	-			
Plant Information	ĦĴ	<b>#</b> 7		#1	#7			
Height Above Grate (ft.)	5	NA	Health of plant(s)	(Alive / Dead	Awe / Dead			
Stern O-ameter/Caliper (in ):	1."	MA	Damage to plant(s)?	ν / (Ņ.	Y / N			
Wigth at Widest Point (fr.):	3	ΝĄ	Plant(s) replaced?	Y 7(N/	Y / N			

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Capital Outlay and Facilities Alanagement PO 60a 9414 Vieginia State trinvesity, VA 23406 Phone: (804)524-3971 Fax: (804)524-5383

BMP ID #:	. <u> </u>		Date/Time:	MISSIST	
,- <i></i>					
Notes:	Maintenance was	performed on this unit	on April	2417, 2018.	
	This fulls the	c maintainine requirement ind	licuted on	the previous report	
:					
Certification		<del></del>			
1 no mainte	nance is required, certify the f	cllowing:			
"I certify that	tine inspection is complete a	nd that no action is recessary at this time."			
		Signature of Inspector		Date	
1	ce is required, provide alt me mance completion, re-inspect	frame for maintenance completion: and certify the following:			
!					
I certify that	t a Frecommended maintenar	ice is complete and no adoltional action is nece			!
		(imelia Wehu	nt.	6/30/15	
:		Signature of Inspector		Date	
İ					İ
Next inspecti	on date: $\underline{F_6}\underline{H}$ = $\underline{2}$ $\underline{\gamma}_1S$				





BMP #1-6 and #16-21: Roof Filterra (typical)



BMP #1-6 and #16-21: Roof Filterra (typical)

Note: These photos are representative of all roof Filterras on campus. As such, photos of every roof Filterra are not included.



#### Filterra BMPs

#### Inspection & Maintenance Checklist

Inspector Name: 14 - 3% Cha of			Type: Inlet / Roof Size: 17 / (-1					
вме ю #: - 2			Date/Time: 4 13 * 4 * 2					
Component	(Circ	le Y/N]	Comments					
		Initial Observat	lions		:			
Standing Water?	Y	(N						
Damage to 80x Structure?	[ •	(Ñ.						
Damage to Grate?	[ •	$C_{N_{\ell}}$						
Js Bypuss Clear?		N						
		Waste	·					
Silt/Clay?	Y	(N )						
Cups/Rags/Trush?	Y	(N)						
Inaves?		$\langle \widetilde{N} \rangle$						
Other?	Υ	(N)						
		Erosion Cont	rot					
Netting in Need of Replacement?	٧	(8	5A					
Stones in Need of Replacement?	Υ Υ	7 N	AA.					
		Mulch						
Depth from Top of Slab to Su:face of Mulch	Inlet Filterra	Roof Filterra						
Measured (m.):	•	16."	Mulcin depth was appropria					
A lowed range [m.]:	16" - 18"	23" - 25"		, , , , ,				
		uich. Remove a tom of inict thin	my accumulated silt that may also oat, and	o be clogging the filter m	edia.			
	<del>-</del>							
Type of Murch to be Added or Replaced:	<u> </u>							
Date Mulich Added or Replaced:	<u>:_N</u> A							
None Colone William No. 1000 and 1000 a	about the contract of the cont	Plantings	halo da de de de de de de de de de de de de de					
Note. Column #1 is the plant to the left when facing Plant Information	#!	47	IN the plant to the tight when tac	#]	!: #2			
Height Above Grate (ft.):	2 1	NA.	Health of plantis)	(Afive )/ Dead	. Alive / Dead			
Stern Diameter/Caliper (in ):	( <u>r</u>	VA.	Damage to plant(s)?	Y / (N	Y / N			
Width at Wides: Point (4.)		VA VA	Plant(s) replaced?	Y / (N	. Y/N			
	5.5			_1 ' '."	. '' "_J			

1647 Checolar revision (7201)





BMP IO N	<u>e a</u>	Date/Time:
Notes:	Maintenance was performed on this unit	on April 24th, 2015.
	This fulfills the maintenance requirement	indicated on the previous report.

_			
Certification:			
If no maintenance is required, certify the follow	wing:		
*I certify that the inspection is complete and th	rating action is necessary at this time "		
	Signature of Inspector	Date	
If maintenance is required, provide a time fram Upon maintenance completion, re-inspect and	•		
Treet by that all recommissions maintenance is	complishe and no additional action is necessary at this time	e. <sup>-</sup>	
	inclia Whint	10/30/15	
	Signature of Inspector	Oate	
Next inspection date			

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#### Filterra BMPs

#### Inspection & Maintenance Checklist

Inspector Name: A Michael			Type: Info	et / [Roof_]		Size:	···
BMP ID #:			Date/Time:	- v. v			*
Component	(Circl	e Y/N)	Comments	. ,			
	1	nitial Observat	l lons				
Standing Water?		<u>5</u>					
Damage to Box Structure?		<u> </u>					
F '		•	<u> </u>				
Damage to Grate?	·						
Is Bypass Clear?		. 19	· <u></u>				
<u></u>		Waste					
Sile/Clay?	٧	<u>N</u>					
Cups/Bags/Trash?	Y	<u></u>					
!teaves?	Υ Υ	N					
Other?	Y	N	: 				
:	<b>-</b>	Erasion Contr	rol .				:
Netting in Need of Replacement?	4	Ď	NA				
Stones in Need of Replacement?	Υ	(N)	NA .				
		Mutch		1			
Death from Top of Slab to Surface of Mulch	Inlet Filterra	Reof Filterra	Comments		- · · · · · · · ·	- · ·	
Measured (in ):				n was appropriate			echu.
Allowed range (i.e.)	16" - 1 <b>8</b> "	23" - 25"					
Notes: If measured depth exceeds the a lowed range if there is everdence of ponding water, remove Do not overfill unit with mulch; for interunits, mulch she for roof units, mulch she	ve and replace al. m. culd not exceed bott	.lch Aemave a	ny accumulated par, and	silt that may also be	clogging the f	iher media.	
Amount of Mulch to be Added or Replaced.	NA						
Type of Mulch to be Added or Replaced.	NA						
Date Mulch Added or Regraced	NΑ						
		Plantings					
Note: Column #1 is the clant to the left when facing th	e throat of the inlet	and column 42	s the plant to th	e right when facing t	the throat of 1	he In et.	
Plant Information	#1	#2			47		#2
Height Above Grate (fr.).		NΑ	Health of plans	1 5	Alive / 0	ead Ali	ve / Dead
Stem Crameter/Caliper (in.):		ΝA	Damage to pla	nt(s)?	¥ / N		Y / N
Width at Widest Point (ft ):	T:	NA	Plant(s) replac	ed?	Y / 🖔	0 -	Y / N

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BMP ID #:	3		Date/Time: 1, 30 (1)	<u></u>
Notes:	Maintenance (	van performed on this unit	on April 24", zois.	
	This follows the	: maintononce requirement indicate	d on the previous report.	
:				
Certification	n;			
ff no mainte	manue is recoured, certify th	fullowing:		
'i cerafy tha	il the inspection is complete	and that Polactica is necessary at this time."		
		Signature of Inspector	Date	
		ie frame for maintenance completion: et and centify the following:		
"I certify tha	n all recommended mainten	ance is complete and no additional action is neces	sary at this time "	
		aprilaction	ant wals	
		Signature of Inspector	Date	
Next inspect	condate Part 2019			



#### Filterra BMPs

#### Inspection & Maintenance Checklist

Inspector Name: 13 NEPUAT			Type: Inlet / (Roof)	Size:	51 X W.
BMP ID #: □			Date/Time: (*)   1   1   1   1   1   1   1   1   1	••	
Component	(Circi	le Y/N)	Comments		
	1	Initial Observat	lons		
Standing Water?	, A	(N)			
Camage to Box Structure?	Y	(N)	į		
Damuge to Grate?	Y	(N)			
is Bypass Clear?	( <u>r</u> )	N			
		Waste		<del></del> .	
Si t/Clay?	γ	(N)			
Cups/Rags/Trash?	Y	(N)			
(Isiwey?	Y	(N)			
-Other?	٧	(N)			
		Erasion Conti	rol		
Netting in Need of Replacement?	Ţ	(N	NA		
Stones in Need of Replacement?	,	Ñ.	NA		
	'	Mukh			
Depth from Top of Slab to Surface of Mulch	Inlet Filterra	Roof Filterra	Comments		
Measured (in.):	!	191	Mulch depth was apply Continue to monitor dus		
Allowed range (in.).	167 - 187	23" - 25"	Caraline in the state of the st		
Notes: If measured depth exceeds the allowed range, add If there is everdence of ponding water, remove an Do not overfill unit with mulch: for inlet units, mulch should for roof units, mulch should.	kd replace a.! mu not exc <b>e</b> ed bott	ulch. Remove a	ny accumulated silt (ha) may also pat, and	so be clugging the filter and	··ď·a.
Amount of Mulch to be Added or Replaced:	V٩				
Type of Mulch to be Added or Replaced:	NA				
Date Mulch Added or Replaced:	MA				
		Plantings			
Note. Column #1 is the plant to the left when facing the thi	oat of the inlet . I	and column #2	is the plant to the right when la	ring the throat of the inlet	
Plant Information	πl	#2		ľΙ	n?
Height Above Grate (H.)	<u>  '2</u> .	<u>NA</u>	Health of plant(s)	Alive / Dead	Alive / Dead
Stem Diameter/Caliper (in.):	1.0	NA	Darnage to plant( s)?	Y / N	Y / N
Width at Wadnyl Point (#1):	3	N.A	Plant(s) replaced?	Y / N	Y / N

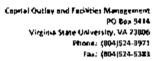
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BMP ID #:	+	· · · · · · · · · · · · · · · · · · ·	Date/Time: = 1 / 3 = 1 :5	
Notes:	Maintenance	was performed on this	out on April 24th, 2015.	
	This folkills	the maintenance requirement	indicated on the previous report.	:
Certification:				
if no mainten	ence is required, certify (	he fallowing:		
Ticertify that	the inspection is complet	te and that no action is necessary at this til	me."	
		Signature of Inspecto	r Date	
		me frame for maintenance completion: bect and certify the following.		
"I certify that	all decommended mainte	mance is complete and no additional actio	л is necessary at this time."	
		amelia We	hunt 10/30/15	
		Signature of Inspector	r Date	
Next inspectin	in date: 1754 1: 20.5	<u>,</u>		

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Filterra 8MPs

#### Inspection & Maintenance Checklist

Inspector Name: 🧆 😕 🗥 🚈			Type: Inlet / Roof	Size:	H122
BMP ID #:			Date/Time: 🗄 🖟 🕺		
Component	(Circl	e Y/N)	Comments		
	·····	nitial Observat	ions		
Standing Water?	Υ	Ŵ,	:		
Damage to Box Structure?	-   Y		]		
Dynkage to Grate?		(N)			
Is Byoass Clear?	· (v)	N			
		Waste			
Silt/Clay?	ΥΥ	ÇŅ.			
Cirps/Bags/Trash?		ψ.			
: eaves?	, v	(ف	!		_
Other?	Υ	(N)		<del></del>	~
		Erosion Conte	rol		
Netting in Need of Replacement?	Y	N)	NA		
Stones in Need of Replacement?	Y	(N)	NA		
		Mulch			
Depth from Top of Slap to Surface of Mulch	Inlet Filtorra	Roof Filterra	Comments		
Measured (•n.).		18.	Continue to munitur d		
Allowed range (in.):	16" 18"	23* 25"			
		uich. Remove a com of inlet 19 r	ny accumulated silt that may als put, and	o be clogging the filter m	edia.
Armount of Mulich to be Added or Replaced:	NA				
Type of Mulch to be Added or Replaced.	NA.				
Date Mulch Added or Replaced	MA				
Note: Column #1 is the plant to the left when facing	the threat of the in et.	Plantings	s the plant to their ght when fa	cing the throat of the inle	t
Plant Information	41	#2		<b>P</b> 1	#2
Height Above Grate (ft.).	77 '	MA	Health of plant(s)	Alive / Dead	Alive / Dead
Stein Diameter/Caliper (in.):		MA	Damage to plant(s)?	Y / N	Y / N
Width at Widest Point (h.)	3 4	MA	Plant(s) replaced?	Y / N	Y / N

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BMP ID #:	-,			Date/Time:	7 · .	
Notes:		was perturnal	الان بقد م		24 <sup>th</sup> 2018	
		·		•		
	This fifth	the maintenance	requirement indicate	cated on the	previous report.	
Certilication	1:					
if no mainte	nance is required, certif	ly the following:				
* Certify Tha	the inspection is comp	plete and that no action is no	cossary at this time."			
		Signa	ture of inspector	Da	te	
		a time frame for maintenant risport and certify the follow				
'T certify tha	t all recommended ma-	ntenance is complete and no	additional action is nece	osery at this time."		
			ablishe		dool -	
					2 30 15	
		Signal	lure of Inspector	Da	te	
	6 0 2 2 2	<i>:</i>				
Next inspect	ion date: $F_{i}HJD^{i}$	, 				





#### Filterra BMPs

#### Inspection & Maintenance Checklist

Inspector Name: A. Wehunt			Type: inle	t / Roof	Size:	5'x7'
BMP ID #: 6			Date/Time:	4/30/15		
Component	(Circ	le Y/N)	Comments			
	-	Initial Observat	ions			
Standing Water?	Y	(N)				
Damage to Box Structure?	Y	N				
Damage to Grate?	Y	N				
Is Bypass Clear?	Ø	N				
		Waste	.1			
Silt/Clay?	Y	(N)				
Cups/Bags/Trash?	Y	(1)				
Leaves?	Y	0				
Other?	Y	(N)				
	J	Erosion Conti	ol			
Netting in Need of Replacement?	Y	(N)	NA			
Stones in Need of Replacement?	Y	0	NA			
		Mulch		l		
Depth from Top of Slab to Surface of Mulch	Inlet Filterra	Roof Filterra	Comments			
Measured (in.):			NA - to	be provided	during fell in	ispection.
Allowed range (in.):	16" - 18"	23" - 25"	(w	ith tree re	placement)	
Notes: If measured depth exceeds the allowed range, add If there is eveidence of ponding water, remove an Do not overfill unit with mulch; for inlet units, mulch should for roof units, mulch should in the should	d replace all mu	ulch. Remove a	ny accumulated pat, and	silt that may also b	e clogging the filter me	edia.
Amount of Mulch to be Added or Replaced:	NA					
Type of Mulch to be Added or Replaced:	NA					
Date Mulch Added or Replaced:	NA					
		Plantings				
Note: Column #1 is the plant to the left when facing the thro	oat of the inlet	and column #2	s the plant to th	e right when facing	the throat of the inlet	•
Plant Information	#1	#2			#1	#2
Height Above Grate (ft.):	NA	Ay	Health of plant	(s)	Alive / Dead	Alive / Dead
Stem Diameter/Caliper (in.):	NA	NA	Damage to plar	nt(s)?	<b>♡</b> / N	y / N
Width at Widest Point (ft.):	NA	ΝA	Plant(s) replace	ed?	y / <b>(</b> N)	y / N

Checklist revised: 6/2015



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BMP ID #:	6		Date/Time:	: 4/30/15		
Notes:						
		and a replacement ha	us been or	dered. It	w:ll be	
	replaced as s	oun as possible				
						•••
Certification	:					
If no mainter	nance is required, certify the t	following:				
"I certify that	t the inspection is complete a	nd that no action is necessary at this time.'	ı			
			-	Magnetine	-	
		Signature of inspector		Date		
1	ce is required, provide a time enance completion, re-inspect	Traine for maintenance completion	next inspec	<u></u>		
"I certify that	t all recommended maintena	nce is complete and no additional action is	necessary at this time	e."		
					_	
		Signature of Inspector	an a v.a	Date		
	Fall 2015					
Next inspecti	ion date: Fall 2015					



10'2



#### Filterra BMPs

#### Inspection & Maintenance Checklist

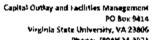
Inspector Name: A Section of			Type: Inlet / Roof	Size:	147 P.
BMP ID #: 10			Date/Time: [1] j = 1		
Camponent	(Circi	le Y/N}	Comments		
		Initial Observat	lons		
Standing Water?	Y	Ň.			
Damage to Box Structure?	Y	(N)			
Samage to Grate?	Y	N.			
l's Bypass Clear?	<u>Y</u> .	N			
	•	Waste	·		
Silt/Clay?	Y	N,	i		
Cups/Bags/Trash?	Y	<u>N</u>	İ	·	
_caves?	γ	راق			
Other?	Y	_N_			
		Eroslon Conti	rol		
Netting in Need of Replacement?	۲	<u>(6)</u>	NA .		
Stones in Need of Replacement?	Y	<u></u>	NA NA		
	!	Mulch			
Depth from Top of Slab to Surface of Mulch	Inlet Filterra	Roof Filterra	Comments		
Measured (in.):			Mulch depth was approp Continue to muniter		
Allowed range (in.):	36" - 18"	23 25*	CONTRACT IN PROPERTY	don't double walter	<u> </u>
Notes: If measured depth exceeds the allowed range, ad if there is everdence of ponding water, remove an Do not overfill unit with mulch; for rolet units, mulch should for roof units, mulch should	nd replace all mu	ulch. Remove a	ny accomulated silt that may a pat, and	iso be clogging the filter m	edia
Amount of Mulch to be Added or Replaced:	NΑ				
Type of Mulch to be Added or Replaced:	MA				
Date Mulch Added or Replaced:	NA				
		Plantings			
Note: Column #3 is the plant to the left when facing the thr	oat of the inlet .	and column #2	is the plant to the right when f	acing the throat of the inle	t
Plant Information	#1	#2		¥1	hr2
Reight Above Grate (ft.).	87		Health of plant(s)	Africe // Dead	Alive / Dead
Stem O <sub>4</sub> a meter/Cal-per (in.):	5		Damage to plant(s)?	A NOW 2	Y / N
Width at Widest Point (ft ):			Plant(s) replaced?	Y / _ N_ /	7 / N

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Capital Quilley and Facilities Management PO 8ox 9414 Virginia State Driversity, VA 23806 Phone: (804)524-5363 Fac: (804)524-5383

BMP ID #:				Date/Time:		
Nates:				··		
	Maintenance u	ias pertuined	י ליגט נאלף איני	on April 24",	2015.	
	1000	(**************************************	<b>,</b>	γ ,		
	765 机机	the printerance	e requirement	indiated on the	previous report	<i>t</i> -
Fa midlos elo a						
Certification	: nance is required, certify (F	e following.				
if no mainter		_	cessary at this time."			
if no mainter	nance is required, certify (f	_	cessary at this time."			
if no mainter	nance is required, certify (f	e and that no action is ne				
if no mainter	nance is required, certify (f	e and that no action is ne	cessary at this time."	Date		
if no mainter	nance is required, certify (f	e and that no action is ned	ture of Inspector	Date		
if no mainter 'I certify that I maintenan	nance is required, certify (f	Signal frame for maintenance	ture of Inspectar	Date		
if no mainter 'I certify that I maintenant Jpon mainte	nance is required, certify (f tithe inspection is complet) ce is required, provide a to mance completion, re-insp	Signal  Signal  The frame for maintenance and certify the following the	e completion:			
if no mainter 'I certify that I maintenant Jpon mainte	nance is required, certify (fit the inspiration is complet)	Signal  Signal  The frame for maintenance ect and certify the following mance is complete and no	e completion:	sary at this time."		
if no mainter 'I certify that I maintenant Jpon mainte	nance is required, certify (f tithe inspection is complet) ce is required, provide a to mance completion, re-insp	Signal  Signal  The frame for maintenance ect and certify the following mance is complete and no	e completion:		<u>                                      </u>	
if no mainter 'I certify that I maintenant Jpon mainte	nance is required, certify (f tithe inspection is complet) ce is required, provide a to mance completion, re-insp	Signal  Signal  The frame for maintenance and certify the following mance is complete and no	e completion:	sary at this time."	<u></u>	
if no mainter 'I certify that I maintenant Jpon mainte	nance is required, certify (f tithe inspection is complet) ce is required, provide a to mance completion, re-insp	Signal  Signal  The frame for maintenance and certify the following mance is complete and no	e completion:  additional action is necess	sary at this time."	<u></u>	



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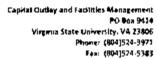


#### Fliterra BMPs

#### Inspection & Maintenance Checklist

Inspector Name: 15 155 Sec. 5			Type: Inlet / Roof Size:				
BMP ID #: 17			Date/Time: M [3 = ] (5				
Component	(Circle Y/N)		Comments				
	le le	nitla) Observat	tlons	'			
Standing Water?	Y	(Ŕ)					
Damage to 8px Structure?	ν	, N `	<del> </del>				
Damage to Grate?	v	(Ñ.	!				
Is Bypass Clear?	(¥	N					
		Waste					
S't/Clay?	. Y	(N					
Cups/Bags/Trash?	· · · · ·	(Ñ	•				
Linuxy?	· · · · · · · · · · · · · · · · · · ·	(N .	·•				
Other?	Y	(n	<b></b> -				
		Erosion Cont	ral				
Netting in Need of Replacement?	γ.	(Ñ	NA				
Stones in Need of Replacement?	۲	(Ñ	NA				
		Mulch					
Depth from Top of Slab to Sarface of Mulch	Inlet Filterra	Roof Filterra	Comments		····· ,.		
Measured (in.):	İ	19	Mutan depth was appropriate based on visual impection.  Continue to monitor during tubuse impections.			il imprehien House	
Allowed range (in ):	(6° 18°	23" - 25	;				
Notes. If measured depth exceeds the allowed range, additional if there is eveloping of ponding water, remove an Doinot overfill unit with mulch, for inlet units, mulch should light code units, mulch should	nd seplationall man	ilch. Remave a om at inlet thr	my accommisted silt thoose, and	hat may also be	cogging the filter me	d-a.	
Amount of Mulch to be Added or Replaced:	NA.						
Type of Mulich to be Added or Replaced:	MA						
Date Mulch Added or Replaced:	MA						
		Plantings					
Note: Column #1 is the plant to the left when facing the thr	oat of the intet a	and dolumn #2	is the plant to the rigi	ht when lacing t	he throat of the inlet.		
Plant information	#?	#7			Ħl	<b>#</b> 2	
Height Above Grate (ft.):	-1,		Health of plant(s)		(Alive / Dead	A we / Dead	
Stem Diameter/Coliper (in.)	1.5		Dumage to plant(s)	7	Y / (N)	Y / N	
Width at Walest Point (fr.):	45"		Plant(s) replaced?	[	Y / (N	Y / N	

Lal 2 Checkles related 6/2015





BMP IO N:	Date/Time	
DIFFIC W.	Date, time	
Notes:		
Maintenance w	as performed on this unit on Ap	Al 24°, 2015.
This fulfills H	re maintenance requirement indicated	on the previous report.
Certification:		
if no maintenance is required, certify the	fallowing:	
Ti certify that the inspiretion is complete	and that $\neg \varphi$ action is necessary at this time."	
	Signature of Inspector	Date
If maintenance is required, provide a tim Upon maintenance completion, re inspe		
'I cernify that all recommended mainten	ance is complete and no additional action is necessary at this tir	me'
:	Chone Clas Wohart	10/30/15
	Signature of Inspector	Date
Next inspection date:		





#### Filterra BMPs

#### Inspection & Maintenance Checklist

Inspector Name: 71 (5-7)			Type: Inlet / Roof	Size:	H1x31				
8MP ID #: + 19			Date/Time:						
Component	(Circl	e Y/N)	Comments						
Initial Observations									
Standing Water?	Y	<u>(N)</u>			•				
Camage to Box Structure?	Y	<u>(N</u> )							
Ωarnage to Grafe?	Y	, Ñ							
's Bypass Clear?	13	N							
Waste									
Si t/Clay <sup>3</sup>	v	(N)	T						
Cups/Bags/Trush?		œ)							
Leaves?	Y	χŽ							
Other?	Y	( <u>3</u> )							
	-	Erosion Contr	rol						
Netting in Need of Replacement?	γ	<u></u>	NA NA						
Stones in Need of Replacement ?	γ		NA NA						
	•	Mulkh							
Depth from Top of Slab to Surface of Mulch	Inlet Filterra	Roof Filterra	Comments						
Measured (in.):	•	179	much dept was appropriate do		inspection.				
Allowed range (m.):	16. 18.	23" 25"	المام المام	wy town properties.					
Notes. If measured depth exceeds the allowed range, as if there is everldence of ponding water, remove a Do not overfull unit with multiplication of process for roof units, multiplications.	nd replace all mu I not excised both	isch Remove a om of inlet the	ny accumulated silt that may all out, and	so be ciogging the filter me	edia.				
Amount of Mulch to be Added or Replaced	MA	MA							
Type of Mulch to be Added or Replaced:	MA								
Date Mulch Added or Replaced:	MA								
		Plantings							
Note: Column #1 is the plant to the left when facing the throat of the inlet and column #2 is the plant to the light when facing the throat of the inlet.									
Plant Information	#1	#3		n1	п7				
Height Above Grate (ft ):			Health of plant(s)	Alive / Dead	Alive / Dead				
Stein Diameter/Call per (in.):	a ·		Damage to plant(Q?	* / ŵ	Y / N				
Width at Widest Point (ft.):	د ا		Plant(s) replaceo?	* / <u>N</u>	Y / N				

Thick increased 4/1005



emp iD #: (13)	Date/Time:
Notes:	
Maintenance was performed on this unit	on April 24", 2015.
This salkilly the maintenance requirement in	displad on the previous report.
Certification:	
If no maintenance is required, certify the following:	
"I certify that the inspection is come ate and that no action is necessary at this time."	
: Signature of Inspector	Date
If maintenance is required, provide a time frame for maintenance completion	
Thertify that all recommended maintenance is complete and no additional action is nece	essary at this ture."
amelialveni	<u>u-1 (130)15</u>
Signature of Inspector	Date
Next inspect on dame <u>Flag 1707 S</u>	





### Inspection & Maintenance Checklist

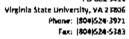
Inspector Name: 1/2 1 1/2 2/2 2/2 2/2				Type: Inlet / Roof Size: 4 x &				
BMP ID #: 1-1				Date/Time: Mg Date   19				
Camponent	(Circl	le Y/N)	Comments					
	I	nitial Observati	ions					
Standing Water <sup>a</sup>	Y	زه						
Damage to Box Structure?	Y	.NJ		-				
Damage to Grate!	Y	-W-			•			
Is Bypass C ear?		N N	<u>!</u>					
· · · · · · · · · · · · · · · · · · ·		Waste						
Silt/Clay?	Y	(بع						
Cups/Bags/Tras**?	Y	<b>.</b>	•					
Leaves?	Y	(H)						
Other?	Y	<u>(8)</u>						
·· ·· ·· ·· ·· ·· ·· ·· ·· ·· ·· ·· ··		Erosion Contr	ol					
Netting in Need of Replacement?	Y	(N)	NA					
Stones in Need of Replacement?	Y	<u></u>	NA					
		Mulch						
Opoth from Top of Slab to Surface of Mulch	Inlet Filterra	Roof Filterra	Comments					
Measured (in.):		187	moles depth	n was appropria	te bused un visus ing toture inspec	l inspections		
Allowed range (in.):	16" · 18"	231 - 25"		, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,				
Notes: If measured depth exceeds the allowed range, and If there is eveidence of ponding water, remove an Do not overfill unit with mulch; for inlet units, mulch should for roof units, mulch should	not exceed both	ulcili. Remove a tom of infecthro	ny apromolated pat. and	s-lt that may also be	e clugging the filter me	dia.		
Amount of Mulch to be Apded or Replaced:	MA							
Type of Mutch to be Added or Replaced:	NA							
Date Mulch Added or Replaced:	NΑ							
		Plantings						
Note: Column 41 is the plant to the left when facing the th	roat of the inlet	and column #2	is the plant to th	e right when facing	the finuat of the inlet	i		
·Plant Coformation ;	#1	#7			41	pr 2		
Height Above Grate (fr.):	(d'is'		Health of plant	:(s)	(Almo // Doad	Alive / Dead		
Stem Drameter/Caliper (in.):	1		Damage to pla	n((s)7	Y / (N.	Y / N		
Width at Widest Point (ft.).	5'	İ	Plant(s) replac	ed?	* /(N.	Y / N		

Check increased 67905





MP ID #:	C	Pate/Time:	
	<u>-</u>		
Notes:			
Maintenane w	as performed on this unit	o. April 24", 2015.	
		•	
This folkilly	the maintenance requirements	indicated on the previous rep	ort.
	•	·	
			··· -
<b>-</b>			
ertification:			
	ne fa lawing:		
no maintenance is required, certify th	ne following: e and that no action is necessary at this time."		
no maintenance is required, certify th	_		
no maintenance is required, certify th	_		
no maintenance is required, certify th	_	Date	
f no maintenance is required, certify th	e and that no action is necessary at this time."	Date	
no maintenance is required, certify the leastify that the inspection is complete	e and that no action is necessary at this time."	Date	
fino maintenance is required, certify the licertify that the inspection is complete the complete of the comple	e and that no act on is necessary at this time."  Signature of inspector  The frame for maintenance completion.	Date	
fino maintenance is required, certify the literature is consoleted to the inspection is consoleted from the literature is required, provide a time provide a	Signature of Inspector  The Frame for maintenance completion.		
fino maintenance is required, certify the literature is consoleted to the inspection is consoleted from the literature is required, provide a time provide a	Signature of inspector  The frame for maintenance completion.  ect and certify the following  nance is complete and no additional action is necessary	r at this time."	
fino maintenance is required, certify the literature is consoleted to the inspection is consoleted from the literature is required, provide a time provide a	Signature of Inspector  The Frame for maintenance completion.	r at this time."	
no maintenance is required, certify the description is consoled to the inspection is consoled to the inspection is consoled to the inspection of the inspect	Signature of inspector  The frame for maintenance completion.  ect and certify the following  nance is complete and no additional action is necessary	r at this time."	
fino maintenance is required, certify the literature of certify that the inspection is consoleted from the literature of	Signature of Inspector  The frame for maintenance completion.  The complete and no additional action is necessary.	racibistime."	
if maintenance is required, provide a tir Upon maintenance completion, re-insp	Signature of Inspector  Signature of Inspector  Signature of Inspector  Signature of Inspector  Signature of Inspector	racibistime."	

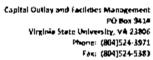




## Inspection & Maintenance Checklist

Inspector Name: " Parker part	Type: Intet / Roof > Size: " ' A 'C'					
BMP ID #: 12 %			Date/Time:	4,300		
Component	(Circl	le Y/N)	Comments			
		nitiai Observat	tions			
Standing Water?	. Y	(N)				
Uamage to Box Structure?	, Y	(N)				
Uamage to Grate?	· y	(N)				
Is Bypass Clear?	(¥)	N			<del></del>	
	<u> </u>	Waste				
Silt/Clay?	Y	(N)				
Cups/Bags/Trash?	· v	(Ņ)				
teaves?	Y	/N .				
Other?	•. Y	(N)				
·	•	Emission Cont				
Netting in Need of Replacement?	Y	/N)	5A		<b></b>	
Stones in Need of Replacement?	: ү	(Ñ)	NA.	<del></del>		
		Mulch				
Depth from Top of Slab to Surface of Mulch	inlet Filterra	Roof Filterra	Comments			
Measure¢ (in ):		165	Mulch dipt	was upproprie	de based on vis g totole inject	unt inspection.
. Allowed range (in ):	16' - 18"	23" - 25" 23" - 25"	CONTROL IN	Library Garage	S TOTOLE INSECT	φτ <sub>3</sub> ,
		utch, Remov <b>e</b> a sem of inlecthr	oat, and	silt that may also b	e clogging the filter mi	ed a.
Amount of Mulch to be Added or Replaced:	√Д					
fype of Mulch to be Added or Replaced:	MA					
Date Mulch Added or Replaced.	NΑ					
		Plantings				
Note: Column #1 is the plant to the left when facing	the throat of the intet	and column #2	is the plant to the	e right when facing	the throat of the inlet	t. I
Plant Information	#1	#2			<b>#</b> 1	b2
Height Above Grate (ft.):	9		health of plant	(s)	(Alve) / Dead	Alive / Dead
Stem Olameter/Caliper (in.)	1.5		Damage to plan	11 5 ?	4 1/K)	Y / N
Width at Widest Point [ft.]:	5		Plant(s) replace	ed?	Y /(N)	Y / N

Cross revise Micris 14°C





BMP (D #: 12.5		Date/Time:	: <u></u>
Maintame was	performed on this u	ait on April 24°	, 2015.
This fulfills H	ne maintenance requir	emats indicated on	the previous report.
Certification:			
If no maintenance is required, certify the follow	wing		
"I certify that the inspection is complete and the	oat no action is necessary at this time."		
_	Signature of Inspector	Date	
If maintenance is required, provide a time from Upon maintenance completion, re-inspect and			
flicertify that all recommended maintenance is	complete and no additional action is no	nessary at this time."	
	macrocalies	10 to 10	lis
	Signature of Inspector	Date	•
Next inspection date: 12 12 1			

The Control of Section 2015



# Inspection & Maintenance Checklist

Inspector Name: /h INVANOVA			Type: Inlet / (Roof.)	Size: `` > \f
BMP ID #: 1/2 1			Date/Time: 19/30/201	
Component	(Cîrci	e Y/N)	Comments	
· · · · - · - · · · · · · · · · · · · ·	1	nitial Observat	lons	
Standing Water?	у	(N)		
Damage to Box Structure?	У	7 K		·
Damage to Grate?		(N)		
:	G.	N	ļ—!	
	. ```	 Waste		
Cotton 2	: . v	.4.		
5:0/Clay?	<u> </u>	<u>'N</u>		
Cups/Hags/Trash?		ÛN		
Leaves <sup>7</sup>	Y	, N		
Otner?	٧	(8).		
		Erosion Contr	rol	
Netting in Need of Replacement?	٧	√N.	NA :	
Stones in Need of Replacement?	Y	(N <sub>2</sub>	NA .	
		Mulch	· · · · · · · · · · · · · · · · · · ·	
Dopth from Top of Slab to Surface of Wulth	Infet Filterra	Roof Filterra	Comments	······································
Mcasared (.n.t.		22"		to based on visited impertion.
Allowed range (in )	16' - 18"	23" - 25"	Knother to monited the	gan tapasa justactions
Notes: If measured diepth exceeds the allowed range, add		<u>i                                      </u>	· w achieved	<del></del> .
If there is eveidence of ponding water, remove an				e crogging the filter media.
Do not everful unit with mulch; for inlet units, mulch should:	not exceed both	om of inlet thro	oat, and	
dor roof units, malch should i				
Amount of Muich to be Added or Replaced:				
Type of Mulch to be Added or Replaced.				
Date Mulch Added or Replaced.	1		- · · · · · · · · · · · · · · · · · · ·	
	·	Plantings		
Note: Column 41 is the plant to the left when facing the thre	out of the inlet	and column #7	s the plant to the right when facing	the throat of the inlet
Plant Information	#1	#2		#1 #2
Height Above Grate (ft.).	હ	μA	Health of plant(s)	Alive / Dead : Alive / Dead
  Stem Diameter/Caliper (in.):	13	øА	Damage to plant(s)?	Y / (N) Y / N
Wigth at Wigest Point (*t.)	1 14:	٧A	Plant(s) replaced?	Y / (M _ Y / M

Orientiewed 600th 1417



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If no maintenance is required, certify the following:    Certify that the inspection is complete and that no action is necessary at this time.*    Signature of inspector	BMP ID	e 01		Date/Time: State (1997)	
Maintenance was performed on this voit on April 24th, 2015.  This follfills the region tenance requirements indicated on the Arevious report.  Certification: If no maintenance is required, certify the following:  "certify that the inspection is complete and that no action is necessary at this time."  Signature of inspector  Oute  Oute  If maintenance is required, provide a time frame for maintenance complete on upon maintenance compilition, reinspect, and certify the following:  "certify that all recommended maintenance is complete and no add bonal action is recessary at this time."  Charlies To Bate  Date					
Certification: If no maintenance is required, certify the following:  " certify that the inspection is complete and that no action is necessary at this time."  Signature of inspector  Date  The antenance is required, provide a time frame for maintenance completion upon maintenance completion, remissest, and certify the following:  "It certify that all recommended maintenance is complete and no add bonal action is recessary at this time."  Child C	Nates:				
Certification:  If no maintenance is reduced, certify the following:  Certify that the inspection is complete and that no action is necessary at this time."  Signature of inspector  Oute  If maintenance is required, provide a time frame for maintenance completion alpon maintenance completion, remispect and certify the following:  "It certify that all recommended maintenance is complete and no additional action is necessary at this time."  Control of inspector  Date		Maintmance was p	e-formed on this uni	t on April 24", 2015.	
If no maintenance is required, certify the following:    Certify that the inspection is complete and that no action is necessary at this time.*    Signature of inspector		This follows the y	haintenance requireme	nts indicated on the previous m	Langt.
If no maintenance is required, certify the following:  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 clipon maintenance completion, remispect and certify the following:  "I certify that all recommended maintenance is complete and no additional action is necessary at this time."  Contract the finance of inspector  Date					
If no maintenance is required, certify the following:  Certify that the inspection is complete and that no action is necessary at this time.  Signature of inspector  Oute  If maintenance is required, provide a time frame for maintenance completion alpon 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					
If no maintenance is required, certify the following:  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 clipon maintenance completion, remispect and certify the following:  "I certify that all recommended maintenance is complete and no additional action is necessary at this time."  Contract the finance of inspector  Date					
Signature of inspector  Date  If maintenance is required, provide a time frame for maintenance completion alpon 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					
If no maintenance is required, certify the following:  Certify that the inspection is complete and that no action is necessary at this time.*  Signature of inspector  Oute  If maintenance is required, provide a time frame for maintenance completion alpon maintenance completion, remispect and certify the following:  "I certify that all recommended maintenance is complete and no additional action is necessary at this time."  Cartify that all recommended maintenance is complete and no additional action is necessary at this time."  Cartify that all recommended maintenance is complete and no additional action is necessary at this time."  Cartify that all recommended maintenance is complete and no additional action. If necessary at this time."  Cartify that all recommended maintenance is complete and no additional action. It is not that the complete and no additional action. It is not that the complete and no additional action. It is not that the complete and no additional action. It is not that the complete and no additional action. It is not that the complete and no additional action. It is not that the complete and no additional action. It is not that the complete and no additional action. It is not that the complete and no additional action. It is not that the complete and no additional action. It is not that the complete and no additional action. It is not that the complete and no additional action. It is not that the complete and no additional action. It is not that the complete and no additional action. It is not that the complete and no additional action. It is not that the complete and no additional action. It is not that the complete and no additional action. It is not that the complete and no additional action. It is not that the complete and no additional action. It is not that the complete and no additional action.					
If no maintenance is required, certify the following:  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 alpon maintenance completion, re-inspect, and certify the following:  "I certify that all recommended maintenance is complete and no add tional action is necessary at this time."					
Signature of inspector  Oute  If maintenance is required, provide a time frame for maintenance completion dipon 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	F 78'				
If maintenance is required, provide a time frame for maintenance completion dipon 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			ng:		
If maintenance is required, provide a time frame for maintenance completion dipon 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	If no main	tenance is required, certify the following			
If maintenance is required, provide a time frame for maintenance completion dipon 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	If no main	tenance is required, certify the following			
The control of the state of the	If no main	tenance is required, certify the following			
The control of the state of the	If no main	tenance is required, certify the following	ing action is necessary at this time."		
Signature of Inspector Date	If no main	tenance is required, certify the following	ing action is necessary at this time."	- Oute	
Signature of Inspector Date	If no main  Certify 1	tenance is required, certify the following that the inspection is complete and that the inspection is complete and that the inspection is complete and that the inspection is complete and that the inspection is required, provide a time frame.	Signature of inspector		
Signature of Inspector Date	If no main  certify t  if mainter dipon mai	tenance is required, certify the following that the inspection is complete and that the inspection is complete and that the inspection is required, provide a time frame intenance completion, re-inspect and ce	Signature of inspector  for maintenance completion  retify the following:		
	If no main  certify t  if mainter dipon mai	tenance is required, certify the following that the inspection is complete and that make is required, provide a time frame intenance completion, re-inspect and certify all recommended maintenance is complete.	Signature of inspector  for maintenance completion  intify the following:	excessary at this time."	
Next respection date: Fig. 1: 2 (2) 5	If no main  certify t  if mainter dipon mai	tenance is required, certify the following that the inspection is complete and that make is required, provide a time frame intenance completion, re-inspect and certify all recommended maintenance is complete.	Signature of inspector  for maintenance completion  critiquitie following:  complete and no additional action is re	excessary at this time."	
Next inspection date: _fro the _2 (0.6)	If no main  certify t  if mainter dipon mai	tenance is required, certify the following that the inspection is complete and that make is required, provide a time frame intenance completion, re-inspect and certify all recommended maintenance is complete.	Signature of inspector  for maintenance completion  critiquitie following:  complete and no additional action is re	excessary at this time."	
	if mainter dpon mai	tenance is required, certify the following that the inspection is complete and that same is required, provide a time frame intenance completion, re-inspect and certificated that all recommended maintenance is complete and certificated that all recommended maintenance is complete.	Signature of inspector  for maintenance completion  critiquitie following:  complete and no additional action is re	excessary at this time."	



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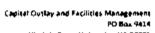


#### Filterra BMPs

### Inspection & Maintenance Checklist

Inspector Name: 12 Na			Type: (lolet) / Roof	Size:	المستحاني
BMP ID #:			Date/Time:		
Component	(Circl	le Y/N)	Comments		
	ı	nitlal Observati	ons		
Standing Water?	٧	ÜN.			
Damage to Box Structure?	γ	(N)			
Damage to Grate?	γ	,Ñ,			
Is Rypass Clear?	٠	N	· —		
		Waste	· · · · · · · · · · · · · · · · · · ·		
Silc/Clay?	. у	Ü,			
Cups/Bags/Trash?	у				
Leaves?	Y	<u>(N</u> )			
Other?	Y	رين			
		Erosion Contr	ol		
Netting in Need of Replacement <sup>3</sup>	٧	(M)	AN		
Stones in Nees of Replacement?	٧	QN)	NA		
		Mulch	··· —, ··— ·—, ··— ·		
Dript's from Top of Slab to Surface of Mulch	Inlet Fliterra	Roof Filterra	Comments		
Measured (in.1:	!2."	•			
Allowed range (m.):	16" 18"	. 23"-25"	<del></del> -		
Notes: If measured depth extends the allowed range, add If there is eveidence of ponding water, reargon and Opinot over! I unit with multh; for inlet units, multh should it for roof units, multh should it	d replace all mu not exceed bots	ulch. Remove a om of inlet thre	ny acrumulated silt that may also at, and	o be clogging the fitter me	edia.
Amount of Mulch to be Added or Replaced:	WA				
Type of Mulch to be Added or Replaced:	MA			_	
Date Mulch Added or Replaced:	N/A			-	
		Plantings			
Note. Column #1 is the plant to the left when facing the thro	oat of the inlet :	and follows #2 i	s the plant to the right when fac	ing the throat of the injet	
Plan: Information	#ť,	u.S		#1	#2
Height Above Grate (ft.):	7.	ŅА	Health of plant(s)	Alive / Dead	Afwe / Dead
Stem Diameter/Caliper (in ):	2 -> "	MA	Damage to diant(s)?	Y / N	Y / N .
Width at Widest Point (II.):	-7 '	NΑ	Plant(s) replaced?	Y / N	V / N

Shekkits revised 6/2035 5.4.2



PO Box 9414 Virginia State University, VA 23806 Phone: |304|524-3971 Fax: (804|524-3383

BMP ID #:		Date/Time:							
Notes:									
	Maintena	مدو س	as pertor	med on this	no fac	$A_{V}A$	24",	2015	
	This fol	h/ll 46	e maintena	nce requirement	indicated	on the	Alerian L	eport.	
							'	•	
Certification	л:								
it no mainse	enance is requires, co	erti <sup>4</sup> y the fo	lawing						
Προστίδη της	at the inspection is d	omplete and	fithat no action is	necessary at this time	·				
  -  -									
			Sig	nature of Inspector		Date			
	nce is required, provienance completion,								
n certafy the	at all recommended	maintenanc	e is complete and	no additional action is	necessary at this	time."			
		_	(Lines)	Lachier	wast	ئلى _	<u>30 frs</u>		
			Şig	nature of Inspector		Date			
Next Inspec	tion date: Fall (	long							
			· · · · — · -						





**BMP #7-13: Inlet Filterra (typical)** 



BMP #7-13: Inlet Filterra (typical)

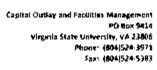
Note: These photos are representative of all inlet Filterras on campus. As such, photos of every inlet Filterra are not included.



#### Inspection & Maintenance Checklist

Inspector Name: 1/2 1998 1991	Type: Inlet / Roof Size: S A 3								
BMP ID #:			Date/Time: デュペント・デ						
Component	(Circl	e Y/N)	Comments						
Initial Observations									
Standing Water?	γ	'Ñ.							
Damage to Box Structure?	· ·	(N.)							
Damage to Grate?	· ·	(s)							
Is Bypass Clear?	(O)	N							
		Waste							
Srtt/Clay?	Y	<u>.</u> 87							
Cups/Bugs/Trash?	Υ	_% <sup>3</sup>							
Leaves?	Y	٨							
Diner?	٧	Ø.							
		Eroslan Cont	roi						
Netting in Need of Resiacement?	у у		NA.						
Stones in Need of Replacement?	· Y	ري	NA.		<del> </del>				
	<del></del>	Mulch							
Depth from Lap of Slap to Surface of Mulch	Inlet Filterra	Roof Filterra							
Measured (m.):	19"		rowich depth was uppup.						
Allowed range (in.):	16" - 12"	231 - 251		7					
Notes If measured depth exceeds the allowed range, ad If there is everdence of ponding water, remove an Do not overfill unit with multih, for iplet units, multih should for roof units, multih should	nd replace all mu	itch. Remove a on of inlet thr	ny accumulated silt that may also bi pat, and	e clagging the filter mi	edia.				
Amount of Mulch to be Added or Seoliced:	140	18	during full maintena	nie.					
Type of Mulch to be Added or Replaced:			•						
Date Mulch Added or Replaced:									
		Plantings							
Note: Column #1 is the plant to the left when facing the thr	oat of the intel a	1	is the plant to the right when facing	the throat of the inlet	<u> </u>				
Plant Information	#1	#2		h1	ь7				
Height Above Grate (It.):	・5 " ま "		Health of plant(s)	Alive / Deads	Alive / Dead				
Stem Diameter/Caliper (in.).	:"	 	Damage to plant(s)?	Y / N	Y / N				
Width at Widest Point (fr.):	313"		Plant(s) replaced?	7 / N	Y / N				

Thick is millionally Q2015

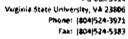




BMP ID N:

Add two  Certification: If no maintenance is required, certify to "I certify that the inspection is complet." If analyse name is required, provide a to Upon maintenance completion, resinsp	was performed on the the minimenonic requirement bags of mulch a control of the following of the control of the	during full		2015. ped.
Add two  Certification: If no maintenance is required, certify to "I certify that the inspection is complet."  If analyse name is required, provide a to  Upon maintenance completion, re-insp	bags of mulch	during full		peA.
Add two  Certification: If no maintenance is required, certify to "I certify that the inspection is complet."  If anaiotenance is required, provide a to Upon maintenance completion, re-insp	bags of mulch	during full		
Certification: If no main(enance is required, certify to Tild certify (but the inspection is comple) If maintenance is required, provide a to Upon maintenance completion, re-insp	ic follow.rg		mai atemine.	
Certification: If no maintenance is required, certify to "I certify that the inspection is complet If maintenance is required, provide a to Upon maintenance completion, re-insp	ic follow.rg		(nui a tealinee i	
If no maintenance is required, certify the life certify that the inspection is complet if certify that the inspection is complet if maintenance is required, provide a to Upon maintenance completion, re-insp		me "		
If no maintenance is required, certify the "I certify that the inspection is complet I" certify that the inspection is complet.  If maintenance is required, provide a to Upon maintenance completion, re-insp		me "		
If no maintenance is required, certify the "I certify that the inspection is complet I" certify that the inspection is complet.  If maintenance is required, provide a to Upon maintenance completion, re-insp		mg "		
If no maintenance is required, certify the life certify that the inspection is complet if certify that the inspection is complet if maintenance is required, provide a to Upon maintenance completion, re-insp		nng "		
If no maintenance is required, certify the life certify that the inspection is complet if certify that the inspection is complet if maintenance is required, provide a to Upon maintenance completion, re-insp		me "		
If no maintenance is required, certify the "I certify that the inspection is complet "I certify that the inspection is complet."  If maintenance is required, provide a to Upon maintenance completion, re-insp		me "		
If no maintenance is required, certify the "I certify that the inspection is complet I" certify that the inspection is complet.  If maintenance is required, provide a to Upon maintenance completion, re-insp		nng "		
If no maintenance is required, certify the "I certify that the inspection is complet I" certify that the inspection is complet.  If maintenance is required, provide a to Upon maintenance completion, re-insp		me "		
If no maintenance is required, certify the "I certify that the inspection is complet "I certify that the inspection is complet."  If maintenance is required, provide a to Upon maintenance completion, re-insp		we "		
If no maintenance is required, certify the life certify that the inspection is complet if certify that the inspection is complet if maintenance is required, provide a to Upon maintenance completion, re-insp		me "		
l <sup>g</sup> maintenance is required, provide a tr Upon maintenance completion, re-insp	and that no action is necessary at this o	nne "		
l <sup>e</sup> maiotéixancé is requiréd, provide o to Upon maintenance completion, re-insp	c and that no action is necessary at this ti	ime .		
Upon maintenance completion, relinsp				
Upon maintenance completion, relinsp				
Upon maintenance completion, relinsp				
Upon maintenance completion, relinsp	Signature of Inspecto	r.	Date	
Upon maintenance completion, relinsp				
Upon maintenance completion, relinsp	ne frame for maintenance completine:			
Ticertify that all recommended mainte				
Ticertify that all recommended mainte				
	nance is complete and indiadditional actio	on is necessary at this t	tirne."	
	amelia W	ches to	عرامواء.	
	CONTERCO IN	210001	- <u>cetania</u>	
	Signature of Inspecto	er.	Date	
rom or an in-				
Next inspection date, $F_{5}(1;2\psi;i)$				

Date/Time:





## Inspection & Maintenance Checklist

Inspector Name: A ~ ~ @ @ particles		_	Type: (Inlet/ / Roof	Sire	_ 8 ' x 6 '
BMP ID #:			Date/Time: 1/30/19	.;	
Component	(Circ	le Y/N)	Comments		•••
	ı	Initial Observat	tions		
Standing Water?	Υ	®	:		
Canvage to Box Structure?	γ	<u></u>	<del>†</del>		
Camage to Grate?	· Y	- (N)	·		
ts Bypass Clear?	*\*\*\		<del>-</del>		
		Waste	·		
Sit/Clay?	γ	( <u>R</u> )			
Cups/Bags/Trash?	٧	(®)			
teaves?	٧	(6)	<del>-</del> -		
Other?	. Y	- <u>Ŭ</u>	1	<del></del>	
· · · · · · · · · · · · · · · · · · ·		Erosion Contr	: roi		
Netting in Need of Replacement?			NA T		
				<del>.</del>	
Stones in Need of Replacement?	· ····· · · · · · · · · · · · · · · ·	<u>(N</u> )	АМ		
		Mulch			
Depth from Top of Slab to Surface of Mulch	Inlet Filterra	Roof Filterra	i		
Measured (in ):	- 1		Mulch depth was approp Continue to munition du	•	•
Allowed range (in ):	16- 18'	23" 25"	i		
		uch. Remove a Iom of telef time	iny accumulated silt that may a pal, and	also beklagging the filter m	nedia.
Amount of Mulch to be Added or Replaced:	MA				
Type of Mulch to be Added or Replaced:	NA		·		
Date Mulch Added or Replaced.	MA				
		Plantings			
Note: Column #1 is the plant to the left when facing	the throat of the inlet	and column #2	is the plant to the right when f	acing the throat of the inte	5
Plant Information	#1	h2		#1	<b>#</b> 2
Height Above Grate (fu.).	3	NA	Health of plant(s)	Alive / Dead	Alive / Dead
Stem Diameter/Caliper (in.).	: - '	NA	Damage to plant(s)?	Y / N	Y / N
Width at Widest Point (ft.)	·	. MA	Plant(s) replaced?	Y / N	Y / N

Checking review 6/2015 1017



Capital Qualay and Facilities Management PO Box 9414 Virginia State University, VA 23606 Phone: (804)524-3971 Fan: (804)524-5383

BMP ID #:	Dat	re/Time: (*i) 3-135	
Notes:			
Maintenance	was performed on this unit on Apr	1 24", 2015.	
-1			
this tolkilly	the minture requirement indicated an	the presion report.	
	· · · <del>- · ·</del>	<del></del>	
Certification:			
If no maintenance is required, cer			
"I certify that the inspect on is cor	mplete and that no action is necessary at this time "		
	Signature of Inspector	Date	
If maintenance is two tired, provide	le a time frame for maintenance completion		
	e-inspect and certify the following:		
"I certify that all recommended in	nunternance is a complete and no additional action is necessary a	r this time."	
	Amelia Wonun	<u>(43017</u>	
	Signature of Inspector	Date	
Next inspection date: 📴 🗓 👶	: 45 <u> </u>		





#### Inspection & Maintenance Checklist

Inspector Name: A Name in the second			Type:inlet_/ _F	loof	Size:	12 × 11
BMP ID #: 10			Date/Time: 1993	110		
Camponent	(Circl	le Y/N}	Comments			,
	1	nitial Observat	ions			<u></u>
Standing Water?	ү	<u>(N</u> .	<u> </u>			
Damage to Box Structure?	Y	(N)	<del></del> -			
Damage to Grate?	Y	(N	<u></u>			
ts Bypass Clear?	(t)	N				
	'	Waste				
Snt/Clay?	Y	(Ñ,		·		
Cups/Bags/irash?	r	(N)	T			. –
_eaves?	٧	(N.				
Other?	Y	(Ñ.)				,
		Erosion Contr	rol			
Neiting in Need of Replacement?	γ	(N)	NA.			
Stones in Need of Replacement?	Ψ	(N)	NA			
		Mulch	•			
Depth from Top of Slab to Surface of Mulch	Inlet Filterra	Roof Filterra	Comments			
Measured (in.).	17	•	much depth was a continue to emits.			
Allowed range (in.):	16" - 18"	23" - 25"	, , , , , , , , , , , , , , , , , , ,	<u> </u>		··•
		ulch. Rentove a min of interstance	ny accumu ated silt that m	'ay also be : logging ti	he filter me	odia.
Amount of Mulch to be Added or Replaced:						
Type of Mulch to be Added or Replaced:			<u>-</u>			
Date Mulch Added or Replaced.						
:	•	Plantings				
Note: Column#1 is the plant to the left when facing	the target of the inlet	and column #2	is the plant to the right wh	en facing the throat i	of the inlet	
Plant Information	#1	#2		pi i	: :	μ2 
Height Above Grate (ft.).	٤'	8	Health of plant(s)	(Alive /	Dead i	Alive / Dead
Stem Diameter/Caliper (in ):	2 "	37	Damage to plant(s)?	Υ /	(N)	Y /(N.
Width at Widest Point (ft.)	9.1	\$ 1	Flantis) replaced?	¥ /	(N	Y /(N

Once stressed (Audin 100



BMPID#: 10

Capital Dubley and Facilities Management PD 86x 9414 Virgina State University, VA 23806 Phone: (804)524-3383 Fax: (804)524-5383

Date/Time: "\ / 3\\ / /\%

Notes:	Maintena	nce was	pertormed o	a this unit	GA.	April 24"	, 2015.	
	This follows	fills the	puintenence requ	uinement indic	المول يام	the previous	report.	
Certificatio	on:							
ഥ്നാ തങ്ങ	enance is required.	, centify the fall	awai8.					
Ti certify th	iat the inspect on is	s complete and	that no action is necessa	ry at this time."				
		_	Signature o	of Inspector		Date	_	
ı			me for maintenance con dicerally the full owing:	npletion:				
'I certify th	iet all recommende	ed maintenance	is complete and no addi	tional action is necess	ary at this tin	ne."		
			<u> Amala</u>	MANGE	nc <del>t-</del>	<u> 16130[15</u>	L	
 			Signature	ol inspector		Date		
Next inspec	ction date: [5] ir	<u> </u>	· · · · · · · · · · · · · · · · · · ·			<u>-</u> .		





## Inspection & Maintenance Checklist

Inspector Name: A Webyal			Type: Inlet	>/ Roof	Size	12 24
BMP ID 8: //			Date/Time:	4 / 3 + 1 ( G		_
Component	(Circl	e Y/N)	Comments			
	I	nitiai Observat	ions			
Standing Water?	Y	(N)				
Damage to Box Structure?	Y	( <u>N</u> )				
Damage to Grate?	Y	(N)				
Is Bypass Clear?		N				
		Waste	•			
Sit/Clay?	Y	(N)				
Cups/Bags/Trash?	Y	(N)				_
Leaves)	γ	(N)				-
Other?		(N)				•
	<del></del>	Erosion Contr		-		
Netting in Need of Applacement?	Y	(N)	NA NA			
States in Need of Replacement?	Y	(N)	NA			
		Mulch				
Death from Top of Slab to Surface of Mulch	Inlet Filterra	Roof Filterra	Comments			
Measured (m.).	12'			was appropriate musike during		
Allowed range (m.).	16" - 18"	23" - 25"		3-0-2-01 (24-1-4)	, 401-74 101/21	en Fra
		ilch. Remove a am of in ex thro	ny accumulated s	it that may also be c	logging the filter in	redia.
Amount of Mulch to be Added or Replaced	AU.					
Type of Mulch to be Added or Replaced	NA					
Date Mulch Added or Replaced:	N A					
	<del></del>	Plantings				
Note: Column #1 is the giant to the left when faring	the throat of the inlet a	and column #2	s the plant to the	right when facing th	e throat of the inle	t
Plant Information	#1	#2			r l	μ2
Height Above Grate (*L):	612"	(c'5''	Health of plant(:	51	Alive / Dead	(Alive // Dead
Stem Diameter/Calippy (in.)	1.	1"	Damage to plan	t(s)?	Y / (N)	Y /(4
Width at Widest Point [ft.]:	217	2181	Plant(s) replaces	d?	(VIN	(Y/N

Checked released 4/3015





	<u>. 1i</u>					Date	/Time: 19 [	30   15 july		
Notes:	Main	tenance	رباور	pertormed	on this	wit on	April (	24°, 2019	 3.	
	Th:,	#77 tilk	the	Maintenace	requiremo	t indicuted	! oo th	e premions	report.	
<b>Certificatio</b> Tino mains		required, cer	ti²y (n <b>e</b> f	ollawing.						
"I certify th	at the ins	pect on 4 cor	mpleje ar	nd that no action is	necessary at this (	time.				
				Sig	nature of Inspect	or	Date	P		
				frame for maintena and certify the fell						
"I certify th	nat all reco	metended m	iaintenar	ke is complete and	no additional acti	on is necessary at	this time."			
				anc	<u>(Latt</u>	jehui.	<u>+ (c</u>	13/15		
				Sig	nature of Inspect	ůr.	Dat	e		

Date/Time: 19 | 30 | 45



## Inspection & Maintenance Checklist

Inspector Name: メケーレス(おレー)			Type: (Inlet) / Roof	Size	£15
BMP ID #: 17-			Date/Time: 11 : 34 /	15	
Component	(Circ	le Y/N)	Camments		<u> </u>
		— Initial Observa	tions	·	
Standing Water?	v	(N):			
Damage to Box Structure?	γ	(N	i i	·	
Damage to Grate?		(N	†		
Is Bypass Cipar?		N			
			-l <u>-</u>	<del></del>	
		· ,=:-			
Sit/Clay?	Ψ.	(N			
Cups/Bags/Trash?	Υ	:_N^			
: eaves <sup>o</sup>	٧	(Ñ			
Other?	Y	(N)			
	<u> </u>	Erosion Cont	fat:		<u>-</u> -
Netting in Need of Replacement?	Y	(N)	NA .		
Stones in Need of Replacement?		(Ñ	NA :		<del></del> -
		Mulch			
Depth from Top of Slab to Surface of Mulch	Inlet Filterra	Roof Fitterra	Comments	-	
Measured (in ):	20"	:	mulch dispth was appropriately		
Allowed range (in ):	19 18	23" - 25"		<del>******</del>	
	nove and replace all mu should not exceed bott should not impeade by	uich. Remove som of inlet thr 1945) pip og gr	my arcumulated silt that may a oat, and splash blocks.	Iso be clagging the filter in	erija.
Amount of Mulch to be Added or Replaces:	JA 1/4 1 2	1 M 8,	is during fell m	interance.	
Type of Mulich to be Added or Replaced:	I				
Date Mulch Added or Replaced:			<del></del>		
		Plantings	<del></del>		
Note. Column #1 is the plant to the left when facing	the throat of the inlet a	and column #7	is the plant to the right when f	acing the throat of the inle	:
Plant Information	#1	<b>\$</b> 2		μj	#2
Height Above Grate (ft.).	1	NA	Health of plant(s)	Alive / Coad	Alive / Dead
Stem O'ameter/Caliper (in.).	7 "	NΆ	Comage to plant(s)?	Y / N "	Y / N
Width at Widest Point (ft.):		- ×4	P ant(s) replaced?	Y / N	Y / N

they arrested 6/70 in



Fax: (804)524-5389



Notes:

Maintenance was performed in this with in April 24th 2015.

This fulfills the maintenance requirement indicated on the previous report.

Add 3.4 bage of match dring fall maintenance.

C 4 - 1	ificat	
Cert	II Mal	

if no maintenance is required, certify the following:

Ti 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."

Cinchea Without 10/2015

Signature of Inspector

Date

Next inspiration date <u>売かせたい</u>



## Inspection & Maintenance Checklist

Inspector Name: Planchivat			Type: (inlet / Roof	Size:	<u>[ [ ] ي ي ي</u>
BMP ID N: 13			Date/Time: 4//30/19		
Component	(Clrcl	e Y/N)	Comments		
	١	nitial Observati	ions	<del>-</del>	
Standing Water?	y , , , , , , , , , ,	( <u>N</u> )			J
Damage to Box Structure?	y	(N	·		
Damage to Grate?	I Y	(N)			•
Is Bypass Clear?	3	N			
		Waste			
Sit/Clay?	Y	Ġ.			
Cups/Bags/Trash?	Y	ű.	•		
Leaves?	Y	(N.			
Other?	γ	(N			
		Erosion Contr	at		
Netting in Need of Replacement?	Y	(N)	NA		
Stones in Need of Replacement?	Y	(N	NA.		
		Mulch			
Depth from Top of Slab to Surface of Muich	Inlet filterra	Roof Filterra	Comments		
Measured (in ):	121	!	Mulch death was appropriate Continue to constant dur	based on visual	inspection. Chiens
A lowed range (in.)	16" 18"	23" - 25"		,	
Notes: If measured depth exceeds the allowed range, add If there is eveidence of princing water, remove as Do not overfill unit with moleh; for inlet units, mulch should for roof units, mulch should.	d replace all mu not exceed bott	uich. Remove a om of injet thro	ny accumu ated silitihat may also bi out, and	e clagging the filter me	edia.
Amount of Mulch to be Added or Reglaced:	. VA	_			
Type of Mulch to be Added or Replaced:	AM				
Oate Mulch Added or Replaced:	ŅΑ				
		Plantings			
Note: Column #1 is the plant to the left when facing the thr	dat of the inlet.	and column #2 i	is the plant to the right when facing	the throat of the rolet	 I
P ant Information	#1	p/2		41	A 2
Height Above Grate [ft.].	€'	VA.	Health of plant(s)	Alive / Deab	Alive / Deas
Stem Diameter/Caliper (in.)	3 '	ΝA	Daniage to plant(s)?	Y / N	Y / N
Width at Widest Point (ft 1):	51	NA	Plant(s) replaced?	Y / N	Y / N

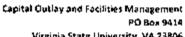
Cress at recover COOPS



Cagital Outlay and Facilities Management PO 8ox 9414 Virginia State University, VA 23806 Phone: (804|524-397) Fee: (804|524-5383

MPID#: [3	Date	/Time: 1 (3 1/3 1/2)	
otes:			
Maintmonce	was performed on this unit on A	bpril 24th, 2015.	
This tolki	ly the maintenance requirement indicat	ed on the previous report.	
nufication:		·	
	tdy the following.	···· ···	
no maintenance is required, cen	tdy the following. Inglete and that no action is necessary at this time."	···· ···	
no maintenance is required, cen	•	·	
no maintenance is required, cen	•	Date	
no maintenance is required, cen	ngiete and that no action is necessary at this time."	Date	
no maintenance is required, centering that the respection is content to the respection of the respecti	ngiete and that no action is necessary at this time."		
no maintenance is required, centent that the inspection is con certify that the inspection is con maintenance is required, provide on maintenance completion, re	Signature of Inspector	·	
no maintenance is required, centred that the inspection is con certify that the inspection is con maintenance is required, provide our maintenance completion, re	Signature of Inspector  c a time frame for maintenance completion: -inspect and cert by the following:	his time '	
no maintenance is required, centred that the inspection is continued that the inspection is continued that the inspection is continued to the inspection of maintenance completion, re	Signature of Inspector  c a time frame for maintenance completion:inspect and cert by the following:	his time '	
niai::1enance is required, provide oda maintenance completion, re	Signature of Inspector  c a time frame for maintenance completion: -inspect and cert by the following:  sintenance is complete and no additional action is necessary at the	his time '	
no maintenance is required, centred that the inspection is continued that the inspection is continued that the inspection is continued to the inspection of maintenance completion, re	Signature of Inspector  c a time frame for maintenance completion:  inspect and cert by the following:  Signature of Inspector	his time '	

......





Phone: (804)524-3971 Fax: (804]524-5383



# Detention, Retention, & Impoundment BMPs

# Inspection & Maintenance Checklist

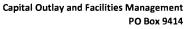
Inspector Name: A. Welnunt / M. We	PP	Type of B	MP: Enhanced Extended Detention Bosin	
BMP ID #: 14			Date/Tim	e: 6/18/15 1317
Сотролент	Yes	No	N/A	Comments
i. Embankment		<del></del>		
A. Top				1
1. Visual settlement			i	1
2. Misalignment		<b>/</b>		1
3. Cracking		<b>V</b>		1
B. Upstream Slope	•			
1. Erosion				1
2. Adequate groundcover	1			1
3. Trees, shrubs, or other vegetation	<b>\sqrt</b>			1
4. Cracks, settlements, or bulges			<del>                                     </del>	
5. Rodent holes	<b>-</b>		1	]
C. Downstream Slope	•		٠,	Very minor monount of ension
1. Erosian		<u> </u>		1 '
Adequate groundcover	1			1
3. Trees, shrubs, or other vegetation		$\sqrt{}$		1
4. Cracks, settlements, or bulges		<b>√</b>		1
5. Rodent holes		V	1	1
E. Drainage/seepage control	•		'	
Internal drains flowing			/	1
2. Seepage at toe		/	T -	
II. Emergency Spillway			e <sup>1</sup> gga ee	
Eroding or backcutting				1
2. Obstruction			/	1
3. Leaking				
4. Operational				1

Checklist revised: 6/2015 1 of 3



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Date/Time: 6/18/15 BMP ID #: 1317 Component Comments Yes No N/A III. Principal Spillway Barrel Ground has living under riser top. 1. Seepage into pipe 2. Debris present 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 2. Adequate vegetation 3. Obstruction Heavy brush along sideslyes needs to B. Basin Bottom & Side Slopes 1. Erosion be cut back. 2. Adequate stabilization 3. Sediment accumulation 4. Floating debris 5. High water marks 6. Shoreline protection Heavy brush within west inlet rip-rap needs to be cut back. C. Inflow Channels/Pipes 1. Erosion 2. Adequate stabilization 3. Undercutting 4. Obstruction D. Sediment Forebay 1. Sediment accumulation 2. Stable overflow into basin E. Upland Landscaping F. Aquatic Landscaping Only applies to Extended Detention Facilities





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Notes:

BMP ID #: 1식			Date/Tim	ne: 6/18/15 1317
Component	Yes	No	N/A	Comments

This facility is scheduled to be replaced. Continue to monitor

Concern prior to facility replacement.

groundhop hole at riser oxlet to ensure that it doesn't become a

If no maintenance is required, certify the following:	and in ofacility
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  Veplacemen	t Date
amelie Wehunt	6/30/15
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

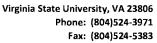




**BMP #14: Gateway Extended Detention** 



BMP #14: Gateway Extended Detention - Outlet





# **Detention, Retention, & Impoundment BMPs**

## **Inspection & Maintenance Checklist**

Inspector Name: A. Wehunt / M. Webb Typ			Type of B	Type of BMP: Extended Detection Busin		
BMP ID #: 29			Date/Time: 6/18/15 0836			
Component Yes No			N/A	Comments		
I. Embankment				Very small amount of crosion at NE corner of embankment that may		
А. Тор				NE corner of embankment that may		
1. Visual settlement		/		need to be stabilized.		
2. Misalignment		/				
3. Cracking		<b>\</b>				
B. Upstream Slope						
1. Erosion				- -		
2. Adequate groundcover	/					
3. Trees, shrubs, or other vegetation	1			-		
4. Cracks, settlements, or bulges						
5. Rodent holes		/				
C. Downstream Slope				High brush along downstream		
1. Erosion	Erosion Shoulder apeds to be			High brush along downstream Shoulder needs to be cut back.		
2. Adequate groundcover	<b>✓</b>			Jillo dei Tiesti I		
3. Trees, shrubs, or other vegetation						
4. Cracks, settlements, or bulges				-		
5. Rodent holes		<b>✓</b>				
E. Drainage/seepage control						
1. Internal drains flowing		<b>✓</b>				
2. Seepage at toe		1				
II. Emergency Spillway						
Eroding or backcutting			/	_		
2. Obstruction			<b>✓</b>			
3. Leaking			<b>\</b>			
4. Operational						

Checklist revised: 6/2015 1 of 3



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BMP ID #: 29		Date/Tim	e: 6/18/15 0836		
Component	Yes	No	N/A	Comments	
III. Principal Spillway Barrel					
Seepage into pipe		<b>/</b>			
2. Debris present		1			
3. Displaced or offset joints		/			
IV. Outlet Protection/Stilling Basin					
1. Obstruction		<b>/</b>			
2. Adequate riprap	<b>\</b>				
3. Undercutting at the outlet		/			
4. Outlet channel scour		/			
V. Internal Basin Area					
A. Low Flow Channel*					
1. Erosion				1	
2. Adequate vegetation					
3. Obstruction					
B. Basin Bottom & Side Slopes	<u> </u>	_		Hich housh alone East and South	
1. Erosion				High brush along East and South side sluges needs to be cut back.	
2. Adequate stabilization	<b>\( \)</b>			- Mar Males	
3. Sediment accumulation		/			
4. Floating debris		/			
5. High water marks		<b>\( \)</b>			
6. Shoreline protection					
C. Inflow Channels/Pipes					
1. Erosion	_			7	
2. Adequate stabilization				7	
3. Undercutting		<b>\( \)</b>			
4. Obstruction					
D. Sediment Forebay					
Sediment accumulation			1		
2. Stable overflow into basin					
E. Upland Landscaping			/		
F. Aquatic Landscaping					
*Only applies to Extended Detention Facilities					



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BMP ID #: 29			Date/Time	e: 6/18/15 0836
Component	Yes	No	N/A	Comments

Notes:										
	Several	hish	persy	۵۳۵۶	the	need	40	be	cleared.	
/										
Certificat	ion:									
f no mair	ntenance is r	equired, o	certify the	following	;:					
'I certify	that the insp	ection is o	complete a					this	ime."	
				31	gnature	of Inspec	tor			Date
									1	
								tion:_	by next inspection	
	intenance co that all recon							al act	on is necessary at this time."	
				Si	gnature	of Inspec	tor			Date
				_						
		~ " ~	س.							
Next insp	ection date:	tall 20	り							

Checklist revised: 6/2015 3 of 3





BMP #29: Physical Plant Extended Detention Basin



**BMP #29: Physical Plant Extended Detention Basin** 





BMP #29: Physical Plant Extended Detention Basin – Downstream Embankment



BMP #29: Physical Plant Extended Detention Basin - Outlet



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Fax: (804)524-5383

# **Detention, Retention, & Impoundment BMPs**

# **Inspection & Maintenance Checklist**

Inspector Name: A. Wehunt / M. Webb	)	Type of BI	of BMP: Retention Busin II			
вмр ID #: 30			Date/Time: 6/18/15 1409			
Component	Yes	No	N/A	Comments		
I. Embankment			F 100	Need to clear brush and overgrowths		
А. Тор				Need to clear brush and overgrowth,  currently unable to access all of  embankment.		
1. Visual settlement		<b>\</b>		embankment.		
2. Misalignment		/				
3. Cracking		<b>√</b>				
B. Upstream Slope			•			
1. Erosion	_					
2. Adequate groundcover						
3. Trees, shrubs, or other vegetation	/					
4. Cracks, settlements, or bulges		1				
5. Rodent holes		1				
C. Downstream Slope		_		Need to remove brush and overgrath.		
1. Erosion						
2. Adequate groundcover	<b>√</b> .					
3. Trees, shrubs, or other vegetation						
4. Cracks, settlements, or bulges						
5. Rodent holes		1				
E. Drainage/seepage control		•	•			
1. Internal drains flowing	<b>/</b>					
2. Seepage at toe		/				
II. Emergency Spillway		-0.		Head to remove brush and overgrowth.		
1. Eroding or backcutting		/				
2. Obstruction		/				
3. Leaking		/				
4. Operational		~				



Phone: (804)524-3971 Fax: (804)524-5383

BMP ID #: 30		: 6/18/15 1409		
Component	Yes	No	N/A	Comments
III. Principal Spillway Barrel				
Seepage into pipe				
2. Debris present		✓		
3. Displaced or offset joints		/		
IV. Outlet Protection/Stilling Basin				
1. Obstruction		/		
2. Adequate riprap	<b></b>			
3. Undercutting at the outlet		/		
4. Outlet channel scour				
V. Internal Basin Area	10			Need to clear brish
A. Low Flow Channel*				
1. Erosion				
2. Adequate vegetation	/			
3. Obstruction		/		
B. Basin Bottom & Side Slopes				Need to clear brush
1. Erosion		✓		
2. Adequate stabilization	/			
3. Sediment accumulation		/		
4. Floating debris		✓		
5. High water marks		<b>✓</b>		
6. Shoreline protection			1	
C. Inflow Channels/Pipes				Minor erosion along channel and
1. Erosion	<b>/</b>			Minor erosion along channel and slight scoring along around headwell.
2. Adequate stabilization	1			
3. Undercutting	<b>/</b>			
4. Obstruction				
D. Sediment Forebay			-	
Sediment accumulation				
2. Stable overflow into basin	<b>/</b>			
E. Upland Landscaping				
F. Aquatic Landscaping				
*Only applies to Extended Detention Faciliti	es			



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BMP ID #: 3 Date/Time: 6/18/15 1409
Component Yes No N/A Comments

-		
Notes:	Need	to clear brish and overgreath from several areas.
		damage to a small section of fence on East side of pond.
	Unable	to walk around entirety of top of basin due to overgrowth.

tification:		
o maintenance is required, certify the	e following:	
ertify that the inspection is complete	and that no action is necessary at this time."  Signature of Inspector	Date
on maintenance completion, re-inspe	ne frame for maintenance completion: wy next in pection ct and certify the following: ance is complete and no additional action is necessary at this time.  Signature of Inspector	
	Signature of hispector	Date
kt inspection date: Fall 2015		

Checklist revised: 6/2015





BMP #30: ROTC Retention Basin - Inflow Channel



BMP #30: ROTC Retention Basin - Forebay





**BMP #30: ROTC Retention Basin** 



BMP #30: ROTC Retention Basin – Emergency Spillway



nspector Name: A. Wehvat / M. Weblo			Type of BMP: Underground Storage Vault		
BMP ID #: 15		<del>- ,</del>	Date/Time: 6/18/15 0935		
Inspection Finding	Y/N	Maintenance Required Y/N	Comments		
I. Internal Storage Area					
A. Sediment present?	Y	N	24" inlets/outlets clear		
B. Trash/debris present?	1	N	minimal		
C. Separation of joints, cracks, breaks, or deteriorization of strucuture?	N	V			
D. Algal growth present?	Ν	N			
E. Evidence of seepage, leakage, or rust?	Ν	N			
F. Evidence of pollutants?	Ν	N			
		Inlet &	Outlet Piping (1305)		
A. Inspection manhole funtioning properly?	Y	N			
B. Clogging of inflow pipes?	V	N			
C. Clogging of outflow pipes?	V	N			
D. Obstruction?	N	V			



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BMP ID #: 15			Date/Time: 6/18/15 0935		
Inspection Finding	Y/N	Maintenance Required Y/N	Comments		
E. Adequate riprap (If applicable)?	γ	N	Some trash/debris caught in rip-rap.		
F. Undercutting at the outlet?	V	7			
G. Outlet channel scour?	Ν	~			

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

Mollow

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:

Fall 2015





BMP #15: Gateway II Underground Storage Vault



BMP #15: Gateway II Underground Storage Vault - Outfall



Inspector Name: A. Welmat M. Welds			Type of BMP: Underground Irrigation Vault Date/Time: 6/18/15 1013
Inspection Finding	Y/N	Maintenance Required Y/N	Comments
I. Internal Storage Area			
A. Sediment present?	V	٧	
B. Trash/debris present?	V	V	
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?	Ν	N	
F. Evidence of pollutants?	Ν	N	
		Inlet &	Outlet Piping
A. Inspection manhole funtioning properly?	1	V	
B. Clogging of inflow pipes?	N	N	
C. Clogging of outflow pipes?	NΑ	NA	



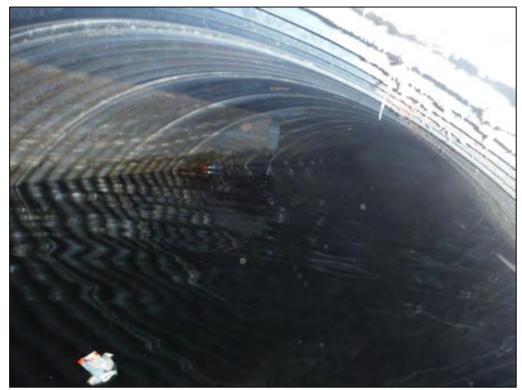


BMP ID#: 24	BMP ID #: 24			6/18/15	1013
Inspection Finding	Y/N	Maintenance Required Y/N	Comments		"
D. Obstruction?	NA	NA			
E. Adequate riprap (If applicable)?	NA	NA			
F. Undercutting at the outlet?	NΑ	AN			
G. Outlet channel scour?	NA	NA		-	
Notes: Floats free Visible inlet	ly operating.		1		

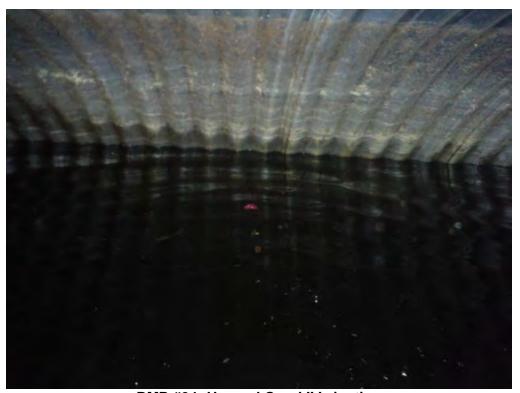
rtification:		
no maintenance is required, certif	y the following:	
certify that the inspection is comp	olete and that no action is necessary at this time."  Signature of Inspector	Date
	Matter Web	6/23/13
maintenance is required, provide oon maintenance completion, re-i	a time frame for maintenance completion:nspect and certify the following:	
certify that all recommended mai	ntenance is complete and no additional action is necessary at this time."  Signature of Inspector	Date

Checklist revised: 6/2015 2 of 2





BMP #24: Howard Quad II Irrigation



BMP #24: Howard Quad II Irrigation





Inspector Name: A. Wehnt / M. Webb			Type of BMP: Underground Detertion
BMP ID #: 25 Inspection Finding	Y/N	Maintenance Required Y/N	Date/Time: 6/18/15 1103  Comments
I. Internal Storage Area			
A. Sediment present?	1	И	5-10" of sediment at upper end.
B. Trash/debris present?	N	٧	
C. Separation of joints, cracks, breaks, or deteriorization of strucuture?	٧	N	
D. Algal growth present?	V	N	
E. Evidence of seepage, leakage, or rust?	N	N	
F. Evidence of pollutants?	V	N	
		Inlet 8	d Outlet Piping
A. Inspection manhole funtioning properly?	4	٧	
B. Clogging of inflow pipes?	1	7	
C. Clogging of outflow pipes?	٧	V	



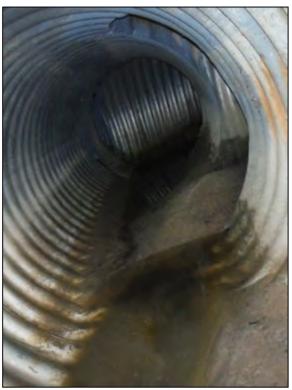


BMP ID #: 25			Date/Time: 6/18/15 /103
Inspection Finding	Y/N	Maintenance Required Y/N	Comments
D. Obstruction?	N	N	
E. Adequate riprap (If applicable)?	NA	NA	
F. Undercutting at the outlet?	MA	NA	
G. Outlet channel scour?	NA	NA	

Notes:	4"-12" of water in pipe due to possible sag point or
	accumulated sediment. Continue to munitor in future impections.

Certification:	
f 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
Malta Well	6/23/15
f maintenance is required, provide a time frame for maintenance completion:  Jpon 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: Fall 2015	





BMP #25: Howard Quad II Underground CMP Detention (Pond 1A)



BMP #25: Howard Quad II Underground CMP Detention (Pond 1A)



Inspector Name: A. Wehnt   M. Web			Type of BMP: Underground Detention  Date/Time: 6/18/15 1115		
BMP ID #: 26			Date/Time: 6/18/15 1115		
Inspection Finding	Y/N	Maintenance Required Y/N	Comments		
I. Internal Storage Area		_			
A. Sediment present?	N	<b>V</b>			
B. Trash/debris present?	N	N			
C. Separation of joints, cracks, breaks, or deteriorization of strucuture?	Ν	N			
D. Algal growth present?	N	N			
E. Evidence of seepage, leakage, or rust?	N	N			
F. Evidence of pollutants?	И	N			
		inlet &	Outlet Piping		
A. Inspection manhole funtioning properly?	4	V			
B. Clogging of inflow pipes?	<b>∨</b>	N			
C. Clogging of outflow pipes?	Ŋ	Ν			





вмр ID#: 26			Date/Time: 6/18/15 1115
Inspection Finding	Y/N	Maintenance Required Y/N	Comments
D. Obstruction?	٧	N	
E. Adequate riprap (If applicable)?	NA	NA	
F. Undercutting at the outlet?	NA	NA	
G. Outlet channel scour?	MA	NA	
Contification			
Certification: If no maintenance is required, certify	the following:		
"I certify that the inspection is comple	ete and that no act Signature of Insp	pector	Date 6/23/15
If maintenance is required, provide a Upon maintenance completion, re-ins			
'I certify that all recommended maint	tenance is complet  Signature of Insp	e and no additional acti pector	on is necessary at this time."  Date
Next inspection date: Fall ていら	<u>;                                    </u>		

Checklist revised: 6/2015 2 of 2

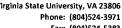




BMP #26: Howard Quad II Underground CMP Detention (Pond 1B)



BMP #26: Howard Quad II Underground CMP Detention (Pond 1B)





Inspector Name: M. Webb /A. Webnit			Type of BMP	: Underground	Detention	wlSand	Filter
BMP ID #: 27		,	Date/Time:	6/18/15	1028		
Inspection Finding	Y/N	Maintenance Required Y/N	Comments				
I. Internal Storage Area							
A. Sediment present?	N	N					
B. Trash/debris present?	V	/					
C. Separation of joints, cracks, breaks, or deteriorization of strucuture?	N	N					
D. Algal growth present?	٨	N					
E. Evidence of seepage, leakage, or rust?	N	N					
F. Evidence of pollutants?	N	N					
		inlet &	Outlet Piping				
A. Inspection manhole funtioning properly?	1	4			. 3.11		
B. Clogging of inflow pipes?	N	7					
C. Clogging of outflow pipes?	N	Ν					



2 of 2



BMP ID#: 27			Date/Time: 6/18/15 1028				
Inspection Finding	Y/N	Maintenance Required Y/N	Comments				
D. Obstruction?	N	N					
E. Adequate riprap (If applicable)?	NA	NA					
F. Undercutting at the outlet?	NA	NA					
G. Outlet channel scour?	NA	NA					
Notes:							

Certification:		
If no maintenance is required, certify	the following:	
"I certify that the inspection is comple	te and that no action is necessary at this time."  Signature of Inspector  Multi- Well	Date 6/23/15
If maintenance is required, provide a t Upon maintenance completion, re-ins	ime frame for maintenance completion: pect and certify the following:	
"I certify that all recommended maint	enance is complete and no additional action is necessary at this time."  Signature of Inspector	Date
Next inspection date: Fall 2015		





BMP #27: Quad I Sand Filter – Sediment Chamber



BMP # 27: Quad I Sand Filter



### Inspection & Maintenance Checklist

Inspector Name: A. Wehvat	M. Webb		Type of BMP: Underground Trigation Vault
BMP ID #: 28			Type of BMP: Underground Irrigation Vault Date/Time: 6/18/15 1038
Inspection Finding	Y/N	Maintenance Required Y/N	Comments
I. Internal Storage Area			
A. Sediment present?	N	N	
B. Trash/debris present?	N	V	
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?	И	N	
F. Evidence of pollutants?	N	N	
		Inlet 8	t Outlet Piping
A. Inspection manhole funtioning properly?	4	V	
B. Clogging of inflow pipes?	V	N	
C. Clogging of outflow pipes?	N	N	





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BMP ID #: 28			Date/Time: 6/18/15	1038
Inspection Finding	Y/N	Maintenance Required Y/N	Comments	
D. Obstruction?	N	\ \		
E. Adequate riprap (If applicable)?	NA	NA		
F. Undercutting at the outlet?	NA	NΑ		
G. Outlet channel scour?	AY	МА		
Certification:				
If no maintenance is required, certify "I certify that the inspection is comple		tion is necessary at this	time "	
rectary that the hispection is compa	Signature of Insp	pector	ume.	Date
	Mattle M			6/23/15
If maintenance is required, provide a Upon maintenance completion, re-in:				
"I certify that all recommended main	tenance is complet Signature of Insp		on is necessary at this time."	Date
Next inspection date: Fall 2015				





BMP #28: Quad I Sand Filter – Irrigation Vault



BMP #28: Quad I Irrigation Vault Inlet From Sand Filter





#### StormFilter BMPs

Inspector Name: A. Webunt M. Webb					Type of BMP: Concrete Stormf: Her				
BMP ID#: 22 (	CONCIE	e are	۵	Date/Ti	me: G	118/15 1357			
				I .	enance uired?				
Component:	Yes	No	Conditions When Maintenance is Needed	Yes	No	Comments:			
I. Below Ground Vault									
Sediment accumulation top of cartridge		1	Sediment depth exceeds 0.25 inches		/				
Sediment accumulation in vault	<b>√</b>		Sediment depth exceeds 4 inches in the first chamber	/		70.7' scdimut			
Submerged cartridges			More than 4" of static water in the cartridge bay 24 hours after last rainfall event	1		> 1' water			
Trash/debris accumulation		/	Trash and debris accumulated on compost filter bed		$\checkmark$				
Sediment in drain pipes or cleanouts		<b>✓</b>	Drain pipes and/or clean outs are full of sediment and/or debris		/				
Damaged pipes		5	Any part of any pipe crushed or damaged due to corrosion and/or settlement		<b>\</b>				
Access cover damaged/not working	= :	1	Cover cannot be opened; one person cannot open the cover using normal lifting pressure; corrosion/deformation of cover		1				
Vault structure includes cracks in wall or bottom; damage to the frame and/or top slab			Cracks wider than ½ inch or evidence of soil particles entering the structure through cracks; determination that the vault is not structurally sound		✓				
		<b>√</b>	Cracks wider than ½ inch at the joint of any inlet/outlet pipeor evidence of soil particles entering through the cracks		/				
Baffles	NA		Baffles corroding, cracking, warping, and/or showing signs of failure	NA					
Access ladder damaged			Ladder is corroded or deteriorated, not functioning properly, not securely secured to the structure wall and/or missing rungs; cracks; misalignment						





BMP ID #: 22					Date/Time: 6/18/15 /357				
				1	enance uired?				
Component:	Yes	No	Conditions When Maintenance is Needed	Yes	No	Comments:			
II. Below Ground Cartridge	Туре								
Filter Media	/		Drawdown of water theough the media takes longer than one hour and/or overflow occurs frequently			Zpg media			
Short Circuiting		/	Flows do no properly enter filter cartridges		/				
At the	Replace filters.  At the time of this inspection, it is our understanding that maintenence is being scheduled.								
Certification:  If no maintenance is require  "I certify that the inspection			ving: at no action is necessary at this time."						
Upon maintenance complet	ion, re-ins	pect and	Signature of Inspector  e for maintenance completion: by Mex+ certify the following:  complete and no additional action is necessary.	ins	1	1			
			Signature of Inspector		Pate				
Next inspection date:	2015								





**BMP #22: Howard Quad II Stormfilter** 





#### StormFilter BMPs

Inspection & Maintenance Checklist Inspector Name: A. Wehunt I M. Webb Type of BMP: Contech stormfilter Date/Time: 6/18/15 1355 BMP ID #: 23 (gruss area) Maintenance required? Component: Yes Conditions When Maintenance is Needed Comments: Yes No i. Below Ground Vault Sediment accumulation top Sediment depth exceeds 0.25 inches of cartridge 70.5 Sediment accumulation in Sediment depth exceeds 4 inches in the first vault More than 4" of static water in the cartridge Submerged cartridges bay 24 hours after last rainfall event Trash and debris accumulated on compost Trash/debris accumulation filter bed Sediment in drain pipes or Drain pipes and/or clean outs are full of cleanouts sediment and/or debris Any part of any pipe crushed or damaged due Damaged pipes to corrosion and/or settlement Cover cannot be opened; one person cannot Access cover damaged/not open the cover using normal lifting pressure; working corrosion/deformation of cover Vault structure includes Cracks wider than 1/2 inch or evidence of soil cracks in wall or bottom; particles entering the structure through damage to the frame cracks; determination that the vault is not and/or top slab structurally sound Cracks wider than ½ inch at the joint of any inlet/outlet pipeor evidence of soil particles entering through the cracks NA NA Baffles corroding, cracking, warping, and/or Baffles showing signs of failure Ladder is corroded or deteriorated, not functioning properly, not securely secured to Access ladder damaged the structure wall and/or missing rungs; cracks; misalignment





BMP ID#: 23				Date/Ti	me:	6/18/15	1355
				1	enance iired?		
Component:	Yes	No	Conditions When Maintenance is Needed	Yes	No	Comments:	
I. Below Ground Cartridge	Туре						
Filter Media		/	Drawdown of water theough the media takes longer than one hour and/or overflow occurs frequently		<b>/</b>	799	
hort Circuiting		<b>/</b>	Flows do no properly enter filter cartridges		/		
		is we of	d clean outlet pipe.  this inspection, it is our led.	under	stand	ing that	maintenance is
ertification:  no maintenance is require  certify that the inspection			ing: at no action is necessary at this time."				
			Signature of Inspector		ate		
If maintenance is required, p Upon maintenance completi			e for maintenance completion: \( \frac{\frac{1}{2}}{2} \) \( \lambda \text{Certify the following:} \)	inspec	lion		
I certify that all recommend	ed maint	enance is	complete and no additional action is necessary	at this tim	e."		
	-		Signature of Inspector		ate	***************************************	
Next inspection date:	2015						





BMP #23: Howard Quad Courtyard Stormfilter

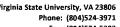


#### StormFilter BMPs

#### Inspection & Maintenance Checklist

					Type of BMP: Contech Stormfilter				
BMP ID #: 35				Date/Time: 6/18/15 1420					
				1	enance iired?				
Component:	Yes	No	Conditions When Maintenance is Needed	Yes	No	Comments:			
I. Below Ground Vault									
Sediment accumulation top of cartridge		/	Sediment depth exceeds 0.25 inches		/				
Sediment accumulation in vault		<u></u>	Sediment depth exceeds 4 inches in the first chamber		/				
Submerged cartridges		/	More than 4" of static water in the cartridge bay 24 hours after last rainfall event		/				
Trash/debris accumulation		/	Trash and debris accumulated on compost filter bed		/				
Sediment in drain pipes or cleanouts			Drain pipes and/or clean outs are full of sediment and/or debris		/				
Damaged pipes		<u></u>	Any part of any pipe crushed or damaged due to corrosion and/or settlement						
Access cover damaged/not working			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		/	Cracks wider than ½ inch or evidence of soil particles entering the structure through cracks; determination that the vault is not structurally sound		/				
			Cracks wider than ½ inch at the joint of any inlet/outlet pipeor evidence of soil particles entering through the cracks		/				
Baffles			Baffles corroding, cracking, warping, and/or showing signs of failure						
Access ladder damaged			Ladder is corroded or deteriorated, not functioning properly, not securely secured to the structure wall and/or missing rungs; cracks; misalignment						







BMP ID #: 35				Date/Ti	me: 6	18/15 1420
					enance	
Component:	Yes	No C	onditions When Maintenance is Needed	Yes	No	Comments:
II. Below Ground Cartridge	Туре					
Filter Media		. / lo	rawdown of water theough the media takes onger than one hour and/or overflow occurs equently		<b>\</b>	
Short Circuiting		FI	ows do no properly enter filter cartridges		1	
Notes:  Certification:						
If no maintenance is required	d, certify	the following	<b>;</b> :			
"I certify that the inspection	is comple	te and that r	no action is necessary at this time."			
		Matte	Signature of Inspector		6/23/ ate	15
If maintenance is required, p Upon maintenance completi	rovide a 1 on, re-ins	ime frame fo	or maintenance completion: tify the following:			
"I certify that all recommend	ed maint	enance is cor	mplete and no additional action is necessary a	t this time	e."	
			Signature of Inspector	D	ate	
Next inspection date: Fall	2015	_				





**BMP #35: Bookstore Stormfilter** 



Capital Outlay and Facilities Management PO Box 9414

Virginia State University, VA 23806 Phone: (804)524-3971

Fax: (804)524-5383

## **Intermittent Sand Filter**

## **Inspection & Maintenance Checklist**

Inspector Name: A. Wehunt / M. Webb	Type of BMP: Deleware Sand Filter				
BMP ID #: 3\	1	Date/Time: 6/18/15 0951			
Component	N/A	Comments			
I. Debris Cleanout					
A. Contributing areas clean of debris	/				
B. Filtration Facility clean of debris		<b>\</b>			
C. Inlets and outlets clear of debris	/				
II. Vegetation in Contributing Drainage Area					
A. Stabilized	/				
B. Active evidence of erosion		/			
C. Area mowed and clippings removed	/				
III. Oil & Grease					
A. Evidence of filter surface clogging					
B. Activities in drainage area to minimize oil & grease entry	/				
IV. Water retention where required					
A. Water holding chambers at normal pool	$\int$				
B. Evidence of leakage		<b>\</b>			
V. Sediment Deposition					
A. Filtration chambers clean of sediment					
B. Water chambers not more than ½ full of sediment		/			
VI. Structural Components					
A. Evidence of structural deterioration					
B. Grates are in good condition			/		
C. Evidence of spalling or cracking of structural parts		$\sqrt{}$			



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

Virginia State University, VA 23806
Phone: (804)524-3971

Fax: (804)524-5383

BMP ID #: 3 \	Date/	Time: 6/18/15		
Component	Yes	No	N/A	Comments
VII. Outlets/Overflow Spiliway				
A. Obstruction				
B. Adequate riprap (If applicable)				
C. Undercutting at the outlet			/	
D. Outlet channel scour			/	
VIII. Overall Function of Facility				
A. Evidence of flow				
B. Noticeable odors		/		

Notes: Have sedimentation chamber pumped out, remove trush and sediment, and refil with clean water up to normal poul. Clean trush out of sand filter.

At the time of this inspection, it is our understanding that maintenance is in the process of being scheduled.

<b>Certification:</b> If no maintenance is	required, certify the following:		
	pection is complete and that no action is necessary at	this time."	
	Signature of Inspector	Date	
	uired, provide a time frame for maintenance complet tion, re-inspect and certify the following:	cion: By next inspection	Upon
"I certify that all reco	mmended maintenance is complete and no additiona	al action is necessary at this time."	
	Signature of Inspector	Date	
Next inspection date:	Fall 2015		





BMP #31: Delaware Sand Filter - Sedimentation Chamber



BMP #31: Delaware Sand Filter - Sand Filter Chamber



**Sorbtive Filter BMPs** 

Inspector Name: M. Webb / A. Wehunt				Type of BMP: Sorbtive Filter 2c			
BMP ID #: 32				Type of BMP: Sorbtive Filter 2c Date/Time: 6/18/15 1335			
				Maint		•	
Component:	Yes	No	Conditions When Maintenance is Needed	Yes	No	Comments:	
The access manhole or access doors are functioning properly and are structurally sound	<b>\</b>				/		
Sediment and oil are present (provide depths)	/					1	
Floatable pollutant accumulation is present in the Pre-treatment Bay		/			/		
The Cartrdge Bay is visually inspected for sediment depth (provide depth)*(If sediment depth is greater than 6 inches, maintenance is required					/	) 11	
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	1				/		
The internal components show no signs of damage	/				/		





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."	
M H 1/11	. / /
Made Will	6/23/15
1 14444 1 144	0/22/17
Signature of Inspector	Date
If maintenance is required, provide a time frame for maintenance completion:	
Upon maintenance completion, re-inspect and certify the following:	
Pleastife that all assessment and are interested in the second se	п
"I certify that all recommended maintenance is complete and no additional action is necessary at this time."	<u>.</u> ."
Signature of Inspector	Date
Fall 2015	
Next inspection date:	
rext inspection date	
next inspection date.	





BMP #32: Lot #36 Sorbtive Filter - Sedimentation Chamber



BMP #32: Lot #36 Sorbtive Filter -Trash Guard and Filter



## Sorbtive Filter BMPs

Inspector Name: A. Wehunt / M. Wedo				Type of BMP: Surbtive Filter IC			
BMP ID #: 33				Type of BMP: Surbtive Filter 1C Date/Time: 6/18/15 1342			
			Maintenance required?				
Component:	Yes	No	Conditions When Maintenance is Needed	Yes	No	Comments:	
The access manhole or access doors are functioning properly and are structurally sound	<b>J</b>				/		
Sediment and oil are present (provide depths)		/			$\sqrt{}$		
Floatable pollutant accumulation is present in the Pre-treatment Bay					<b>/</b>		
The Cartrdge Bay is visually inspected for sediment depth (provide depth)*(If sediment depth is greater than 6 inches, maintenance is required	/				J	0.5"	
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	/				/		





Notes:			
Notes:			
		11-11-11-11-11-11-11-11-11-11-11-11-11-	
Certification:  If no maintenance is required, certify the followin			
"I certify that the inspection is complete and that	no action is necessary at this time."		
,			
N	atter Well	6/23/15	
111	arrea war	<u> </u>	
	Signature of Inspector	Date	
If maintenance is required, provide a time frame	for maintenance completion:		
Upon maintenance completion, re-inspect and ce	rtify the following:		
"I certify that all recommended maintenance is co	omplete and no additional action is neces	ssary at this time."	
,	·	,	
	Signature of Inspector	Date	
Fall 2015			
Next inspection date:			

Checklist revised: 6/2015 2 of 2





BMP #33: Lot #37 Sorbtive Filter - Sedimentation Chamber



BMP #33: Lot 37 Sorbtive Filter - Filters



## Sorbtive Filter BMPs

### Inspection & Maintenance Checklist

Inspector Name: M. Webb / A. Wehu	ή_	Type of BMP: Sorbtive Filter 10L				
вмр ю #: 34		Date/Ti		18/15 1350		
			Maintenance required?			
Component:	Yes	No	Conditions When Maintenance is Needed		No	Comments:
The access manhole or access doors are functioning properly and are structurally sound	/				/	
Sediment and oil are present (provide depths)	$\sqrt{}$				V	0.5" of sediment (no oil observed)
Floatable pollutant accumulation is present in the Pre-treatment Bay	1			/		Remove accumlated trush and debris.
The Cartrdge Bay is visually inspected for sediment depth (provide depth)*(If sediment depth is greater than 6 inches, maintenance is required	<b>/</b>				J	0.5"
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	✓				/	





Notes:			- · · · · · · · · · · · · · · · · · · ·	
<b>1</b>				
	•			
Certification:				
If no maintenance is required, certify the foll				
"I certify that the inspection is complete and	that no action is necessary at this time.			
		•		
-	Clause of the control			
	Signature of Inspector	Date		
	had anot	·		
If maintenance is required, provide a time fra	ame for maintenance completion: by Nex †	inspection.		
Upon maintenance completion, re-inspect ar	nd certify the following:			
"I cortify that all recommended maintenance	is complete and no additional action is necessary at this	time "		
1 certify that an recommended maintenance	e is complete and no additional action is necessary at this	ume.	•	
-				
	Signature of Inspector	Date		
Next inspection date: Fall 2015.				
Next inspection date: Fall 2015.				

Checklist revised: 6/2015 2 of 2





BMP #34: Lot #21 Sorbtive Filter



BMP #34: Lot #21 Sorbtive Filter – Sedimentation Chamber



### **Underground Detention Systems** (Water Quantity)

### Inspection & Maintenance Checklist

Inspector Name: M. Webb			Type of BMP: Rain tank
BMP ID #: 36 (BOOK	store)		Date/Time: 7/17/15 810
Inspection Finding	Y/N	Maintenance Required Y/N	Comments
I. Internal Storage Area			
A. Sediment present?	Υ	~	Unable to tell depth of sediment, no baseline.
B. Trash/debris present?	N	~	
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	
		Inlet &	Outlet Piping
A. Inspection manhole funtioning properly?	1	7	
B. Clogging of inflow pipes?	N	И	
C. Clogging of outflow pipes?	μ	4	



BMP ID #: 36			Date/Time: 7/17/15 810
Inspection Finding	Y/N	Maintenance Required Y/N	Comments
D. Obstruction?	N	N	
E. Adequate riprap (If applicable)?	NA	NA	
F. Undercutting at the outlet?	N	M	
G. Outlet channel scour?	NA	NA	

Notes:	. #\:	Depth to sediment = 101	_ " Depth to water = 82 "	Bepth of water = 19"
		D+S = 99.5"	0+W = 80.5"	DoW= 19"
	¥3:	D+S = 94.75"	D+W = 77.5"	DOW = 17.25"
	Note:	Depth to bottom of ro	hintank is unknown for a previous inspection is unknown	ll ports. for all ports.

Certification:  If no maintenance is required, certi	ify the following:	
"I certify that the inspection is com	plete and that no action is necessary at this time."  Signature of Inspector  Matter Well	Date 7 / 2 0 / 15
If maintenance is required, provide Upon maintenance completion, re-	a time frame for maintenance completion:inspect and certify the following:	
"I certify that all recommended ma	intenance is complete and no additional action is necessary at this time."  Signature of Inspector	Date
Next inspection date:		





**BMP #36: University Bookstore Rain Tank (Inspection Ports)** 



BMP #36: University Bookstore Rain Tank (Yard Inlet 1)





BMP #36: University Bookstore Rain Tank (Yard Inlet 1 - Sump)



BMP #36: Inspection Port #1





BMP #36: University Bookstore Rain Tank (Yard Inlet 2)



BMP #36: University Bookstore Rain Tank (Yard Inlet 2 - Sump)





BMP #36: Inspection Port #2



BMP #36: Inspection Port #3





### **Underground Detention Systems** (Water Quantity)

### Inspection & Maintenance Checklist

Inspector Name: M. Webb			Type of BMP: Rwin tank  Date/Time: 7/17/15 847		
BMPID#: 40 (Lee St.	Parking Lut	#21 <b>)</b>			
Inspection Finding	Y/N	Maintenance Required Y/N	Comments		
I. Internal Storage Area					
A. Sediment present?	N	~			
B. Trash/debris present?	7	\ \			
C. Separation of joints, cracks, breaks, or deteriorization of strucuture?					
D. Algal growth present?	7	7			
E. Evidence of seepage, leakage, or rust?	2	7			
F. Evidence of pollutants?	٧	M			
		Inlet &	Outlet Piping		
A. Inspection manhole funtioning properly?	Υ	~			
B. Clogging of inflow pipes?	7	7			
C. Clogging of outflow pipes?	7	N			

Checklist revised: 6/2015





BMPID#: 40			Date/Time: 7/17/15
Inspection Finding	Y/N	Maintenance Required Y/N	Comments
D. Obstruction?	N	γ	
E. Adequate riprap (If applicable)?	NA	NA	
F. Undercutting at the outlet?	NA	NA	
G. Outlet channel scour?	AN	NA	

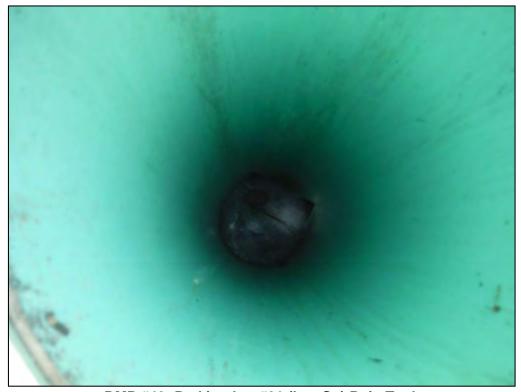
Notes:	Dry. Depth	to b	otton	of inspection	on port	Ф	615/8"		

Certification:					
If no maintenance is required, certify t	the following:				
"I certify that the inspection is comple	Date マイマッ /15				
If maintenance is required, provide a t Upon maintenance completion, re-ins			on:		
"I certify that all recommended mainto	enance is com Signature of	•	action is necessary at this time.	." Date	
			_		_
Next inspection date:	_				





BMP #40: Parking Lot #21 (Lee St.) Rain Tank



BMP #40: Parking Lot #21 (Lee St.) Rain Tank





# Underground Detention Systems (Water Quantity)

### Inspection & Maintenance Checklist

Inspector Name: M. Webb			Type of BMP: Rain Tank Date/Time: 7/17/15 855			
	au St. Parkin	g Lut #36)				
Inspection Finding	Y/N	Maintenance Required Y/N	Comments			
I. Internal Storage Area						
A. Sediment present?	Υ	N	Minimal amount			
B. Trash/debris present?	V	~				
C. Separation of joints, cracks, breaks, or deteriorization of strucuture?						
D. Algal growth present?	7	N				
E. Evidence of seepage, leakage, or rust?	N	7				
F. Evidence of pollutants?	N	N				
		Inlet 8	Coutlet Piping			
A. Inspection manhole funtioning properly?	Υ	N				
B. Clogging of inflow pipes?	У	N				
C. Clogging of outflow pipes?	Ν	И				

Checklist revised: 6/2015



Phone: (804)524-3971 Fax: (804)524-5383

BMP ID #: 41			Date/Time: 7/14/15 855
Inspection Finding	Y/N	Maintenance Required Y/N	Comments
D. Obstruction?	7	٧	
E. Adequate riprap (If applicable)?	NΑ	NA	
F. Undercutting at the outlet?	NA	NA	·
G. Outlet channel scour?	PА	MA	

Notes:										
	Dry.									
	D.Y.			^		\ - m11	ıt			
	Dooth	$\mathcal{F}^{o}$	bottom	of	inspection	Port = 54	'			
	Debin	, -				٠ ١ مهد ٨	ut seem	very	thick	because

Some sediment un bottom but does not seem very thick because to notiches at the bottom end of inspection pipe port are visible. the

Certification:					
If no maintenance is required, certify	the following:	:			
"I certify that the inspection is comple	ete and that n Signature of	· ·	nis time."	Date	
	Matter	liell	-	4/20/15	
If maintenance is required, provide a Upon maintenance completion, re-ins	pect and cert	ify the following:			
			-		
Next inspection date:					





BMP #41: Parking Lot #36 (Boisseau St.) Rain Tank



BMP #41: Parking Lot #36 (Boisseau St.) Rain Tank



Underground Detention Systems (Water Quantity)

#### Inspection & Maintenance Checklist

Inspector Name: M · Webb			Type of BMP: Rain Tank				
BMPID#: 42 (Boisseau		ot #37)	Date/Time: 7/17/15 904				
Inspection Finding	Y/N	Maintenance Required Y/N	Comments				
I. Internal Storage Area							
A. Sediment present?	Υ	N	Minimal amount				
B. Trash/debris present?	N	h					
C. Separation of joints, cracks, breaks, or deteriorization of strucuture?							
D. Algal growth present?	7	2					
E. Evidence of seepage, leakage, or rust?	7	٧					
F. Evidence of pollutants?	7	N					
		Inlet 8	Outlet Piping				
A. Inspection manhole funtioning properly?	Υ	Y					
B. Clogging of inflow pipes?	И	٧					
C. Clogging of outflow pipes?	~	۲					





Virginia State University, VA 23806 Phone: (804)524-3971 Fax: (804)524-5383

BMP ID#: 42			Date/Time: 7/17/15 904		
Inspection Finding	Y/N	Maintenance Required Y/N	Comments		
D. Obstruction?	2	ν			
E. Adequate riprap (If applicable)?	VΑ	NA			
F. Undercutting at the outlet?	NA	NA			
G. Outlet channel scour?	NΑ	NA			

Dry.	7° Y	withou of	inspection p	ort = 60.25	14		
Not	enough	sediment	to cover	button of	inspection	port,	
l/o /	ex035x	90000					

Certification:		
If no maintenance is required, certify	the following:	
"I certify that the inspection is comple	ete and that no action is necessary at this time."  Signature of Inspector  Matthe Gul	Date
If maintenance is required, provide a Upon maintenance completion, re-ins	time frame for maintenance completion: spect and certify the following:	
"I certify that all recommended maint	enance is complete and no additional action is necessary at this time.'  Signature of Inspector	Date
Next inspection date:	<u> </u>	





BMP #42: Parking Lot #37 (Boisseau St.) Rain Tank



BMP #42: Parking Lot #37 (Boisseau St.) Rain Tank





Atlas Industrial Services performed maintenance on two Stormfilters on July 17, 2015. For each storm filter, standing water and accumulated sediment was vacumed out of the manhole. Then, the cover to each Stormfilter was removed and the clogged filter media was vacumed out. Once the filter was cleaned out it, was removed from the manhole to be returned to the distributer for refurbishing. Any resdidual water and/or sediment still remaining in the manhole was then vacumed out and a new Stormfilter with clean filter media was installed. The maintenance procedure for each Stormfilter was identical and the following photos show steps of the process.





BMP #22: Howard Hall Quad II Courtyard (Contect Stormfilter 1)
Vacuming out clogged filter media



BMP #22: Howard Hall Quad II Courtyard (Contect Stormfilter 1)





BMP #22: Howard Hall Quad II Courtyard (Contect Stormfilter 1)



BMP #22: Howard Hall Quad II Courtyard (Contect Stormfilter 1)

Removed filter housing





BMP #22: Howard Hall Quad II Courtyard (Contect Stormfilter 1)

Lowering new filter



BMP #23: Howard Hall Quad II Courtyard (Contect Stormfilter 2 Standing water





BMP #23: Howard Hall Quad II Courtyard (Contect Stormfilter 2)



BMP #23: Howard Hall Quad II Courtyard (Contect Stormfilter 2

Removing accumulated sediment

## Appendix MCM 6

#### **Matthew Webb**

From: Matthew Webb

Sent: Thursday, September 24, 2015 2:58 PM

To: Matthew Webb

**Subject:** FW: Training Records for MS4 Reporting

**Attachments:** Spill Training Sign In Sheet.pdf; OPCP SPCC Training.pptx

From: David Weddle [mailto:dweddle@vsu.edu]
Sent: Thursday, September 24, 2015 2:05 PM

To: Amelia Wehunt

Subject: RE: Training Records for MS4 Reporting

I have attached the spill training presentation and the attendance sheet. We also conducted a drill at the time of the training. The spill training covers the ODCP and SPCC as they are both covering similar topics. I will send the 2015 updated hazardous waste training shortly.

From: Amelia Wehunt [mailto:amelia.wehunt@timmons.com]

**Sent:** Thursday, September 24, 2015 9:56 AM **To:** David Weddle < <a href="mailto:dweddle@vsu.edu">dweddle@vsu.edu</a> **Subject:** Training Records for MS4 Reporting

Importance: High

Hi David,

Would you please send me your power point and training records from last fall? I need them for the MS4 Annual Report.

Thanks for your help,

Amelia

#### Amelia Wehunt, PE

Project Manager

TIMMONS GROUP | www.timmons.com

1001 Boulders Parkway, Suite 300 | Richmond, VA 23225

Office: 804.200.6544 | Fax: 804.560.1438

Mobile: 804.517.4996 | amelia.wehunt@timmons.com

LinkedIn: www.linkedin.com/in/ameliawehunt

Your Vision Achieved Through Ours

To send me files greater than 20MB click here.

**VSU Training Attendance Sheet:** 

Date: November 14, 2014 Time: 1:45-2:45

**Topic: ODCP and SPCC** 

**Trainer: David Weddle, Environmental Compliance Officer** 

Attendees - Print name	Signature
Fred Snyder	I cel Snow
Kenneth R. Bents	hall and
Jeremy Jones	Goo Cac
David Weddle	Delle
	•
2:45-3:00	
MARK Adams	Allah Atdams

# **ODCP** and **SPCC** Training

**VSU Facilities Department** 

## Background

Comply with VADEQ Aboveground Storage Tank Regulations

Aggregate aboveground storage capacity above 25,000 gallons

Tanks under 660 gallons are excluded from the total storage amount

Five aboveground storage tanks with an aggregate capacity of 41,000 gallons

#### **VSU AST Summary** Virginia State University Regulated ASTs Contents Tank Type Maximum Storage Location and Identification Capacity (gallons) Number Double-Walled 10.000 # 6 Oil (Bunker oil) Heating Plant Horizontal AST AST-1 # 6 Oil (Bunker oil) Double-Walled 10,000 Heating Plant Horizontal AST AST-2 Double-Walled 10,000 # 6 Oil (Bunker oil) Heating Plant

# 6 Oil (Banker oil)

# 2 Oii (Diesel Puel)

AST-3

AST-4

Heating Plant

Jones Dining Hall

Horizontal AST

Double-Walled

Horizontal AST

Double-Walled

A5T

Horizontal ConVault

10,000

1,000

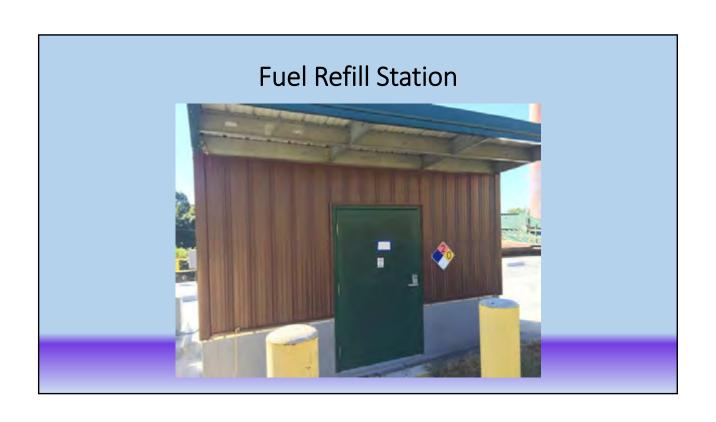


## Heating Plant AST Bunker



## Fuel Transfer and Inventory Control

- ASTs are equipped with high visibility liquid level gauges and audible overfill alarms
- Filling stations are located in a shed that is locked at all times; spill kits are located in the filling station and in the heating plant
- Fuel delivery checklist is used when filling tanks
- Heating plant staff member present at ALL times during fill up





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Prior to starting the delivery process, verify the following:

Vendor/Transporter Name:

- f. Material being delivered agrees with the type of fact needed for that tank and expansions (#6 oil for the heating plant and #2 oil (Diesel furl) for Emergency Generators). (must be <0.5% sulfar for #6 oil for the heating plant, must be <0.0015% by weight (<15ppcow) sulfar for the generators.</p>
- Check the level jugg on the tank that is being filled to ensure that there is sufficient expectely in the tank to safely accept the quantity of fuel being deliverest.
- 3. Clouk flexible hours for integrity, descripcition or looks.
- 4. Check the unfounding were for imagrity, dimerioration or leaks.
- Check for insproper deployment and location of percable/rempreary containment devices (i.e. booms to block nearby storm drains)

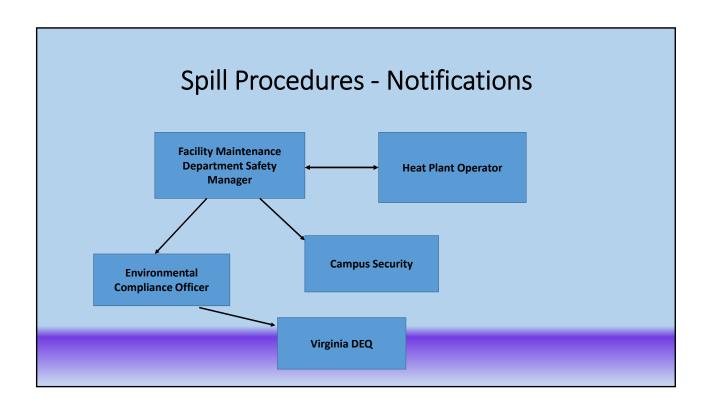
## Tank Inspections

 Tanks are checked daily and official tank inspection reports are conducted weekly

WEEKLY TANK INSPECTION CHECKLIST Check units workly and fill out the Weekly Impection Log Registration of the Above Ground Fuel Storage Tanks with the DEQ requires that all ASTs be inspected weakly AST-1 #8-04 AST-2 #8-04 Generalize Tank #2 dinani #6 08 1. Chall 457 I - I will be feel storage room processes. Yes | No! | Yes | No! | Yes | No! | Yes | No! | Are drip marks apparent? In there apparent discoloration? In there any unable correction? Are there any visible cracks?

Are there any puddles consisting manerial? Are there any visible practed? Yes[] No.[ Yes[] No.[ Yes[] No.[ Yes[] No.[ Yes[] No.[ In there any apparent discolaration?

Are there publics consisting shared material? · Do the tanks show signs of writing? Any there may gaps between the task and the finantiation?
 Is pipe bowing between supports?
 is there evidence of coned contents on valves or smale?



## **Regulatory Notifications**

- Virginia DEQ notified if the spill exceeds 25 gallons
- Notify National Response Center if the spill exceeds 1,000 gallons
- In the case of larger spills, the Environmental Compliance Officer will contact a spill response vendor to assist with mitigation activities (Clean Harbors, Potomac Environmental, etc.)
- Remediation activities will be coordinated by Environmental Compliance Officer in concert with Virginia DEQ for larger spills