

Virginia State University
MS-4 Permit: VAR040119
July 1, 2020 - June 30, 2021 Annual Report



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

October 1, 2021

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- MCM 1: VSU Annual Standards and Specifications Distribution Email
Stormwater Awareness Email and Fact Sheet
Cigarette Butt Litter Email

- MCM 2: Fall Service Event Documentation: Fleets Branch Cleanup 10/17/2020
Tree Campus USA Program Documentation (9/15/2020, 10/21/2020, 4/8/2021)
Classroom Guest Speakers Documentation (10/14/2020)
Spring Service Event Documentation (03/21/2021, 4/17/2021, 5/1/2021)

- MCM 3: Stormwater Outfall Inspections and Summary Table

- MCM 4: ESC Inspections
ESC Enforcements

- MCM 5: Updated MS4 Map, Updated BMP Database Table, BMP Maintenance Summary
BMP Inspections

- MCM 6: Staff Training Documentation

- SC: Special Conditions Progress Documentation



Acronyms

AS&S	Annual Standards & Specifications
BMP	Best Management Practice
DEQ	Virginia Department of Environmental Quality
E3	Exemplary Environmental Enterprise
ESC	Erosion and Sediment Control
IDDE	Illicit Discharge Detection and Elimination
MCM	Minimum Control Measure
MPC	Multi-Purpose Center
MS4	Municipal Separate Storm Sewer System
N	Nitrogen
NMP	Nutrient Management Plan
P	Phosphorus
PCB	Polychlorinated biphenyls
POC	Pollutant of Concern
SOP	Standard Operating Procedure
SWM	Stormwater Management
SWPPP	Stormwater Pollution Prevention Plan
TMDL	Total Maximum Daily Load
TSS	Total Suspended Solids
VPDES	Virginia Pollutant Discharge Elimination System
VSU	Virginia State University
WLA	Wasteload Allocation



Section 1 Background Information

Part 1.D.2: Permittee, system name, and permit number; reporting period; signed certification in accordance with Part III K; each annual reporting item; an evaluation of the MS4 program implementation.

- *Permittee and permit number:* Virginia State University, Permit # VAR040119
- *Reporting period:* Year three of the 2018-2023 cycle (July 1, 2020 – June 30, 2021).
- *Signed certification in accordance with Part III K:*

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 A Taylor Digitally signed by Jonathan A Taylor
Date: 2021.09.30 11:35:43 -04'00'

09/30/2021

Jonathan Taylor

Date

Director for Capital Outlay

- *Each annual reporting item:* See the subsequent sections of this report.
- *Evaluation of the MS4 program implementation:* See Section 2 of this report.

For questions regarding this Annual Report or VSU’s MS4 Program Plan, please contact:

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Director for Capital Outlay
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Section 2 Minimum Control Measures

Each Minimum Control Measure is described in the following sections.

2.1 MCM 1: Public Education and Outreach

Part I.E.g.1: List the high-priority stormwater issues addressed in the public education and outreach program.

See Table 1, below.

Part I.E.g.2: List of the strategies used to communicate each high-priority issue.

The strategies are listed in Table 1, below. See Appendix MCM 1 for documentation.

Table 1 - High Priority Stormwater Issues

High-Priority Stormwater Issue	Strategy to Communicate Issue	Implementation of Strategy
Land and Vegetation Management	Media materials	Email from Jonathan Taylor to AE firms performing planning and design on campus sent on 06/29/2021 distributing the VSU Annual Standards and Specifications
General Stormwater Awareness	Permanent signage and media materials	Email from Jane Harris to faculty, staff and students on 06/28/2021 distributing stormwater fact sheet from Program Plan.
Dumpster and Litter Management	Media materials	Email from Jane Harris to students, faculty and staff sent on 06/21/2021 distributing the Cigarette Butt Litter fact sheet from the Program Plan.

Part I.D.2.e: Provide a review of each MCM to determine the MS4 program's effectiveness and whether or not changes to the MS4 program plan are necessary.

The selected high-priority stormwater issues and the planned implementation strategies for MCM 1 are effective because they reach the intended audience and communicate the intended messages. Changes to VSU's MS4 Program Plan are not necessary at this time.

2.2 MCM 2: Public Involvement and Participation

Part I.E.2.f.1: A summary of any public input on the MS4 program received (including stormwater complaints) and how VSU responded.

VSU did not receive any public input on the MS4 program during the reporting period.

Part I.E.2.f.2: A webpage address to the permittee's MS4 program and stormwater website.



VSU has made updates to the website during this reporting period to fix broken links and to upload annual reports.

The website address is:

<http://www.vsu.edu/capital-outlay/programs-resources-procedures.php>

Part E.2.f.3: A description of the public involvement activities.

VSU identified and participated in the following four local events/activities to address public involvement with stormwater and environmental activities:

1. Fall Service Day Event
A voluntary trash clean-up service outreach activity was conducted along Fleets Branch, a stream on campus. The activity was conducted on Saturday October 17th, 2020.
<https://twitter.com/VSUFacilities/status/1319361395339759616>
2. Spring Service Day Event
Voluntary trash clean-up service outreach activities were conducted on three separate occasions in the spring of 2021:
 - a. March 20, 2021: Collected 4 bags of trash from Fleets Branch and planted flowers in one of the plan beds along University Avenue
<https://twitter.com/vsufye/status/1373645137549660160>
 - b. April 17, 2021: Campus clean up and tree planting in honor of Arbor Day. A minimum of 15 people are pictured participating in the event.
<https://twitter.com/vsufye/status/1383950994749366275>
 - c. May 1, 2021: 49 students participated in trash collection, and flower planting
https://twitter.com/musikal_nupe/status/1389034934120157186
3. Tree Campus USA Advisory Committee
VSU participated in Tree Campus USA Advisory Committee meetings. Three meetings were held during this reporting period (9/15/2020, 10/21/2020, and 04/08/2021). Meeting minutes with attendees are provided in the appendix of this report.
4. Classroom Guest Presentations
Timmons Group gave a presentation regarding the University's MS4 program and stormwater management on October 14, 2020 from 3-5pm as part of the Plant Morphology Lab.



5. Cigarette Butt Virtual Campaign
VSU was awarded a Green Grant by Keep Virginia Beautiful! The funds were used to purchase “Ballet Box” cigarette butt receptacles to reinforce the importance of keeping cigarette butts off the ground. A Twitter Poll voting event was held on 9/17/2020.

Part I.E.2.f.4: A report on the metric as defined for each activity and an evaluation as to whether the activity is beneficial to improving water quality.

1. Fall Service Day Event:
A total of 20 bags of trash weighing nearly 500-lbs was collected. This event educates participants about stormwater issues associated with trash in the receiving stream.
2. Spring Service Day Event:
Approximately 100 students and 30 faculty, staff, alumni, and volunteers attended the service day. This event was beneficial to improving water quality by educating the participants on the importance of riparian buffers.
3. Tree Campus USA Advisory Committee
Three (3) meetings were held over the course of the reporting period. Each meeting was attended by about 10 to 15 people. These events are beneficial to improving water quality because stakeholders discuss and plan events, including funding opportunities to support initiatives on campus related to tree planting and stormwater quality improvement opportunities. Additionally, these meetings often include individuals from neighboring organizations with similar goals of improving water quality.
Tree Campus meeting dates:
 - a. September 15, 2020
 - b. October 21, 2020
 - c. April 8, 2021
4. Classroom Guest Presentations
Five students were reached during the presentation on October 14th, 2020. These activities were beneficial to improving water quality because they gave the participants an opportunity to learn about stormwater regulations, VSU’s MS4 permit requirements, vegetation management for stormwater runoff treatment, and how students can protect the Chesapeake Bay Watershed.
5. Cigarette Butt Virtual Campaign
Approximately 75 twitter votes were cast on the Twitter Poll.



Part E.2.f.5: *The name of other MS4 permittees with whom VSU collaborated.*

VSU did not collaborate with other MS4 permittees for this reporting period.

Part I.D.2.e: *Provide a review of each MCM to determine the MS4 program's effectiveness and whether or not changes to the MS4 program plan are necessary.*

The public involvement opportunities are considered effective due to the number of staff, faculty, and students that participate and due to each event's relevant messages on how individuals can improve water quality.

2.3 MCM 3: Illicit Discharge Detection and Elimination

Part I.E.3.e.1: *A confirmation statement that the MS4 outfall map and information table have been updated.*

No updates were required to the MS4 outfall map or information table during this reporting year.

Part I.E.3.e.2: *The total number of outfalls screened during the reporting period.*

20 outfalls were screened during the reporting period. This represents 100% of VSU's identified MS4 outfalls. See Appendix MCM3 for documentation.

Part I.E.3.e.3: *A list of illicit discharges with information on: the source; the date the discharge was observed, reported, or both; whether the discharge was discovered during dry weather screening, reported by the public, or other method; how the investigation was resolved; a description of any follow-up activities; and the date the investigation was closed.*

No illicit discharges were reported during the reporting period.

Part I.D.2.e: *Provide a review of each MCM to determine the MS4 program's effectiveness and whether or not changes to the MS4 program plan are necessary.*

This MCM is considered to be effective and no changes to the MS4 Program Plan are necessary.

2.4 MCM 4: Construction Site Stormwater Runoff Control

Part I.E.4.d.1.a: *A confirmation statement that land disturbing projects that occurred during the reporting period have been conducted in accordance with the current department approved standards and specifications for erosion and sediment control.*



One land disturbing project occurred under the VSU's General Permit coverage for Discharges of Stormwater from Construction Activities within the reporting period. This land disturbing project was conducted in accordance with VSU's current department approved Annual Standards and Specifications for ESC.

Part I.E.4.d.1.b: If one or more of the land disturbing projects were not conducted with the department approved standards and specifications, an explanation as to why they did not.

The land disturbing project was conducted with VSU's approved Annual Standards and Specifications for ESC.

Part I.E.4.d.2: Total number of construction site stormwater runoff control inspections conducted

Twelve (12) inspections were conducted within this reporting period. See Appendix MCM 4 for documentation.

Part I.E.4.d.3: Total number and type of enforcement actions taken.

No notices to comply enforcement action were taken in the reporting period. See Appendix MCM 4.

Part I.D.2.e: Provide a review of each MCM to determine the MS4 program's effectiveness and whether or not changes to the MS4 program plan are necessary.

This MCM is considered to be effective as VSU's Annual Standards and Specifications are approved by DEQ.

2.5 MCM 5: Post Construction Stormwater Management

Part I.E.5.i.2: Total number of inspections conducted on SWM facilities owned or operated by VSU.

Fifty (50) inspections were conducted on SWM facilities owned or operated by VSU.

Part I.E.5.i.3: Description of the significant maintenance, repair, or retrofit activities performed on the SWM facilities.

Routine and Corrective maintenance and repairs were performed on VSU's SWM facilities during the reporting year, see Table 2. Additional documentation on these activities can be found in the Appendix.



Table 2 - SWM Facility Maintenance Summary

ID	Type	Inspection Date	Maintenance Summary
01	Filtterra (roof)	6/16/2021	Debris/mulch was removed and 3" of mulch replaced
02	Filtterra (roof)	6/16/2021	Debris/mulch was removed and 3" of mulch replaced
03	Filtterra (roof)	6/16/2021	Debris/mulch was removed and 3" of mulch replaced
04	Filtterra (roof)	6/16/2021	Debris/mulch was removed and 3" of mulch replaced
05	Filtterra (roof)	6/16/2021	Debris/mulch was removed and 3" of mulch replaced
06	Filtterra (roof)	6/16/2021	Debris/mulch was removed and 3" of mulch replaced
07	Filtterra (inlet)	6/14/2021	Debris/mulch was removed and 3" of mulch replaced.
08	Filtterra (inlet)	6/14/2021	Debris/mulch was removed and 3" of mulch replaced.
09	Filtterra (inlet)	6/14/2021	Debris/mulch was removed and 3" of mulch replaced.
10	Filtterra (inlet)	6/14/2021	Debris/mulch was removed and 3" of mulch replaced
11	Filtterra (inlet)	6/14/2021	Debris/mulch was removed and 3" of mulch replaced
12	Filtterra (inlet)	6/14/2021	Debris/mulch was removed and 3" of mulch replaced
13	Filtterra (inlet)	6/14/2021	Debris/mulch was removed and 3" of mulch replaced
16	Filtterra (roof)	6/16/2021	Debris/mulch was removed and 3" of mulch replaced
17	Filtterra (roof)	6/16/2021	Debris/mulch was removed and 3" of mulch replaced
18	Filtterra (roof)	6/16/2021	Debris/mulch was removed and 3" of mulch replaced
19	Filtterra (roof)	6/16/2021	Debris/mulch was removed and 3" of mulch replaced
20	Filtterra (roof)	6/16/2021	Debris/mulch was removed and 3" of mulch replaced
21	Filtterra (roof)	6/16/2021	Debris/mulch was removed and 3" of mulch replaced
30	surface BMP	6/17/2021	Erosion Stabilization at inlet and removed cattails. Treated pond for duckweed with SONAR herbicide
31	Sand Filter	6/14/2020	Sediment chamber has been fully cleaned out (removed approximately 3-800 gal vac trailer loads of accumulated material) and about half the sediment was removed from the sand filter. Trash was removed.
40	Underground Detention	6/16/2021	Floatables, debris, and sediment removed. Clean out low flow orifice.
41	Filtterra (inlet)	6/14/2021	Debris/mulch was removed and 3" of mulch replaced
42	Filtterra (inlet)	6/14/2021	Debris/mulch was removed and 3" of mulch replaced. Replaced broken grate cover
43	Filtterra (inlet)	6/14/2021	Debris/mulch was removed and 3" of mulch replaced
44	Filtterra (inlet)	6/14/2021	Debris/mulch was removed and 3" of mulch replaced
46	Ext Detention Pond	6/17/2021	Cut back cattails
47	Stormfilter	6/16/2021	Vault cleanout performed (sediment, trash, debris). Removed approx 2-800 gal vac trailer loads of sediment, trash, and debris from units. Remove sediment accumulation from sediment chamber of system.
48	Stormfilter	6/16/2021	Vault cleanout performed (sediment, trash, debris). Removed approx 1-800 gal vac trailer loads of sediment, trash, and debris from units. Remove sediment accumulation from sediment chamber of system.
49	Stormfilter	6/16/2021	Vault cleanout performed (sediment, trash, debris). Removed approx 2-800 gal vac trailer loads of sediment, trash, and debris from units. Remove sediment accumulation from sediment chamber of system.



Part I.E.5.i.4: A confirmation statement that VSU submitted stormwater management facility information through the Virginia Construction Stormwater General Permit database for land disturbing activities required to obtain coverage under the General VPDES Permit for Discharges of Stormwater from Construction Activities or a statement that no such projects were completed.

VSU did not implement any stormwater management facilities as part of land disturbing activities required to obtain coverage under the General VPDES Permit for Discharges of Stormwater from Construction Activities.

Part I.E.5.i.5: A confirmation statement that VSU reported BMPs using the DEQ BMP Warehouse and the date on which the information was submitted.

In September 2020, construction of Phase1 of Fleets Branch Stream Restoration was completed. This stream restoration project was reported electronically using the DEQ BMP Warehouse on 09/30/2021.

Part I.D.2.e: Provide a review of each MCM to determine the MS4 program's effectiveness and whether or not changes to the MS4 program plan are necessary.

This MCM is considered effective because VSU annually ensures that BMPs owned and operated on campus are routinely inspected and maintained.

2.6 MCM 6: Pollution Prevention and Good Housekeeping

Part I.E.6.q.1: A summary of any operational procedures developed or modified.

No operational procedures were developed or modified during the reporting period.

Part I.E.6.q.2: A summary of any new SWPPPs developed.

No new SWPPPs were developed during the reporting period.

Part I.E.6.q.3: A summary of any SWPPPs modified after an unauthorized discharge or any high priority facilities that have been delisted.

No SWPPPs were modified after an unauthorized discharge and no high priority facilities have been delisted during the reporting period.

Part I.E.6.q.4: A summary of any new turf and landscape nutrient management plans developed that includes the location and total acreage of each land area and the date of each approved plan.



No new turf and landscape NMPs were developed during this reporting period.

Part I.E.6.q.5: A list of training events including the training date, the number of employees who attended the training, and the objective of the training.

Spill Prevention Training was conducted July 16 2020 with six employees. This training was conducted remotely per COVID 19 precautions. The purpose of the training was to educate employees on how to prevent and clean up discharges from above ground storage tanks and the training also covered good housekeeping practices including how to properly dispose of waste. See Appendix MCM 6 for documentation.

Part I.D.2.e: Provide a review of each MCM to determine the MS4 program's effectiveness and whether or not changes to the MS4 program plan are necessary.

This MCM is considered to be effective as VSU has not had any significant spills or contamination events on campus. No changes to the MS4 Program Plan are necessary.

Section 3 Summary of Changes to Program Plan

Part I.C.4: Summarize revisions to the MS4 Program Plan.

There were no significant changes made to VSU's MS4 Program Plan during this reporting period. Some formatting changes were made for clarity.

Section 4 Government Reliance for Permit Obligations

VSU does not rely on any other government entity to satisfy any permit obligations.

Section 5 TMDL Special Conditions Contained in Part II

Permit Requirement Part I.D.4: Provide a status report on the implementation of the Chesapeake Bay TMDL action plan or local TMDL action plans and any revisions.

5.1 Status Report

VSU has constructed Phase 1 of Fleet's Branch Stream Restoration BMP as described in the Chesapeake Bay TMDL Action Plan. The plan for this BMP was prepared and approved in 2019.

BMPs implemented during the reporting period

VSU has constructed Phase 1 of Fleet's Branch Stream Restoration BMP.

5.1.1 BMPs expected to be implemented during the next reporting period

No Additional project will be implemented during the 2020-2021 reporting period.



5.1.2 Progress toward meeting compliance targets

With the Fleet's Branch Stream Restoration project, VSU has achieved 100% of all compliance targets.

5.2 Local TMDL Action Plans

VSU does not have any local TMDL Action Plans. VSU discharges to the Appomattox River which does have a local TMDL for Bacteria. However, VSU has not been assigned any TMDL WLAs for Bacteria.

Appendix MCM 1

Tadd Alexander

From: Leandra Colella
Sent: Tuesday, June 29, 2021 3:08 PM
To: Tadd Alexander
Subject: FW: VSU Annual Standards and Specifications for Erosion and Sediment Control & Stormwater Management
Attachments: Annual Specs for E&S.pdf

Leandra Colella, EIT

Project Engineer II

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From: Jonathan A. Taylor <jataylor@vsu.edu>
Sent: Tuesday, June 29, 2021 2:05 PM
To: Juan Martir <Juan.Martir@abm.com>; Rodney Winfield <Rodney.Winfield@abm.com>; Robert C Grammer <Robert.Grammer@abm.com>; Berliner, Shane <Shane.Berliner@spectrarp.com>; James Peace <jpeace@vsu.edu>; Robert Parise <RParise@glaveandholmes.com>; Nickolas Coile <ncoile@glaveandholmes.com>; Michael Hammon <mhammon@glaveandholmes.com>; Chris Smith <csmith@rrmm.com>; 'Dan Hickok' <dhickok@rrmm.com>; 'Bill Boyce' <bboyce@rrmm.com>; Steve Hostetler <Steve.Hostetler@timmons.com>; tmills@tamconsultants.com; jdreiling@hewv.com; kstorms@hewv.com; Eric L. Minar <eminar@vsu.edu>; Elizabeth Morgan <emorgan@hewv.com>
Cc: Jane S. Harris <jsharris@vsu.edu>; Gilbert Hanzlik <ghanzlik@vsu.edu>; Sheila Reeves <Sheila.Reeves@timmons.com>; Mike Claud <Mike.Claud@timmons.com>; Leandra Colella <Leandra.Colella@timmons.com>; Debra AC Sulla <dacsulla@vsu.edu>; Sean Minor <Sminor@vsu.edu>; Marian B. Barney <mbarney@vsu.edu>; Dale Mason <dmason@vsu.edu>; Ronald M. Howell <rhowell@vsu.edu>; Rianna Davis-Gaetano <rdavis-gaetano@vsu.edu>; Eric A. Martin <emartin@vsu.edu>; David Weddle <dweddle@vsu.edu>; Otis O. Whaley <owhaley@vsu.edu>; Cameron Stiles <cstiles@vsu.edu>; Charlene Harper <charper@1hg.net>
Subject: VSU Annual Standards and Specifications for Erosion and Sediment Control & Stormwater Management

CAUTION: This email originated from outside of the organization. Do not click links or open attachments unless you recognize the sender and know the content is safe.

Good Afternoon

To all of our Facility and Term Contract holders,

VSU has developed and implemented our own Annual Standards and Specifications for Erosion and Sediment Control & Stormwater Management. They are attached for your use and for distribution to your Consultants.

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.

Thank you

Jonathan A Taylor
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At VSU, we are proudly committed to:

- Providing a transformative experience for our students
- Strategically investing in our academic programs
- Embracing our position as a top Land Grant University
- Embracing our role as Virginia's Opportunity University
- Partnering together as a University to tell our story

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Tadd Alexander

From: Leandra Colella
Sent: Monday, June 28, 2021 4:23 PM
To: Tadd Alexander
Subject: FW: VSU's Stormwater
Attachments: Pollution and Water Quality.pdf

Leandra Colella, EIT

Project Engineer II

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leandra.colella@timmons.com

Your Vision Achieved Through Ours

To send me files greater than 20MB [click here](#).

From: Jane S. Harris <jsharris@vsu.edu>

Sent: Monday, June 28, 2021 1:45 PM

To: Faculty <Faculty@vsu.edu>; Staff <Staff@vsu.edu>; 'All Freshman' <freshman@students.vsu.edu>; 'All Graduate Students' <IMCEAEX-

_o=ExchangeLabs_ou=Exchange+20Administrative+20Group+20+28FYDIBOHF23SPDLT+29_cn=Recipients_cn=5721288c88f94c08869278619205586b-All+5FGraduat@namprd10.prod.outlook.com>; 'All Juniors' <IMCEAEX-

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_o=ExchangeLabs_ou=Exchange+20Administrative+20Group+20+28FYDIBOHF23SPDLT+29_cn=Recipients_cn=78cc595dabce4443aa355b24eacb49c4-All+5FSeniors@namprd10.prod.outlook.com>; 'All Sophomores' <IMCEAEX-

_o=ExchangeLabs_ou=Exchange+20Administrative+20Group+20+28FYDIBOHF23SPDLT+29_cn=Recipients_cn=53f35d0bac2c4bb1ad7922a1165cc606-AllSophomor@namprd10.prod.outlook.com>

Cc: Sheila Reeves <Sheila.Reeves@timmons.com>; Leandra Colella <Leandra.Colella@timmons.com>

Subject: VSU's Stormwater

CAUTION: This email originated from outside of the organization. Do not click links or open attachments unless you recognize the sender and know the content is safe.

Did you know that Virginia State University owns and operates a network of storm water inlets, pipes, ditches, and storm water management ponds much as a town or city? This system is known as a Municipal Separate Storm Sewer System (MS4). Our system at VSU is equipped with several structures and measures designed to keep Virginia's waterways clean and free of pollutants. The attached fact sheet shows what you can do to minimize water pollution and keep VSU's water clean and beautiful.

Jane Harris

Virginia State University

AVP for Capital Outlay and Facilities

Physical Plant Building

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At VSU, we are proudly committed to:

- . *Increasing Student Opportunity and Access to Higher Education*
- . *Sustaining Academic Excellence*
- . *Providing a Transformative VSU Student Experience that Supports the Holistic Development of Students*
- . *Defining the VSU Brand to Tell Our Story*
- . *Increasing and Diversifying Financial Resources and Enhancing Operational Effectiveness*
- . *Enhancing the Land Grant Mission of the University*

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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.

Tadd Alexander

From: Leandra Colella
Sent: Friday, June 25, 2021 1:27 PM
To: Tadd Alexander
Subject: FW: Virginia's Cigarette Butt Litter Problem
Attachments: Cigarette Butt Litter.pdf

Leandra Colella, EIT

Project Engineer II

TIMMONS GROUP | www.timmons.com
1001 Boulders Parkway, Suite 300 | Richmond, VA 23225
Office: 804.200.6969 | Fax: 804.560.1438
leandra.colella@timmons.com
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To send me files greater than 20MB [click here](#).

From: Jane S. Harris <jsharris@vsu.edu>
Sent: Monday, June 21, 2021 10:24 PM
To: All Seniors <all_seniors@vsu.edu>; All Freshmen <all_freshmen@vsu.edu>; Faculty <Faculty@vsu.edu>; Staff <Staff@vsu.edu>; All Graduate Students <all_graduate_students@vsu.edu>; All_Sophomores <all_sophomores@vsu.edu>; All_Juniors <all_juniors@vsu.edu>
Cc: Leandra Colella <Leandra.Colella@timmons.com>
Subject: Virginia's Cigarette Butt Litter Problem

CAUTION: This email originated from outside of the organization. Do not click links or open attachments unless you recognize the sender and know the content is safe.

Did you know that throwing tobacco products, especially cigarette butts, on the ground or in the waterways creates litter and causes harm to the environment and animals? Cigarette butts leach toxic chemicals (arsenic, lead, cadmium, aromatic hydrocarbons) that could pollute the environment and harm its ecosystems. Made mostly of plastic, they are only biodegradable under ideal conditions, and can take anywhere from 2 to 25 years to biodegrade. Extinguishing cigarettes on the ground and in planting beds can also cause fires. For these reasons, all tobacco products should be extinguished and disposed of in smoking receptacles. Please take a moment to read the attached fact sheet on cigarette butts and consider what you can do to make sure they don't find their way into our waterways.

Jane Harris
Virginia State University
Assistant Vice President for Facilities and Capital Outlay
PO Box 111
Physical Plant Building, Suite 25
2916 Myster Macklin Street
Petersburg, VA 23806
(W) (804) 524-6239

IS A CIGARETTE BUTT LITTER?

When it ends up on the ground and not in a proper receptacle, a cigarette butt is litter. Partially smoked cigarettes, cigar tips, matches, disposable lighters, packaging, and cigarette butts are all part of our national litter problem.



Individuals, who would never litter beverage cans or paper packaging, typically don't consider tossing cigarette butts or cigar tips on the ground as littering. Lack of awareness, lack of ash receptacles, and ordinances that move smokers outdoors all increase cigarette butt littering.

CIGARETTE BUTT LITTER AND YOUR COMMUNITY

Although it's one of the smallest pieces of litter, communities report cigarette butts, including cigar tips, are the top item collected during local cleanups. All that litter has an impact on the places in which we live:

CREATING BLIGHT

Cigarette butt litter is unsightly. It accumulates in corners, gutters, and outside doorways and bus shelters. Litter in a business district, waterfront, on roadways and recreation areas, and other signs of disorder create a sense that no one cares about the community.

HARMFUL TO WATERWAYS

Littered cigarette butts and cigar tips are easily carried in storm water runoff through drainage systems and eventually to local streams, rivers, and waterways. Cigarette filters contain cellulose acetate, a form of plastic that does not biodegrade and can persist in the environment.

COSTLY TO CLEAN UP

Cigarette litter requires additional sidewalk and street sweeping, greenway and park maintenance, and storm water system upkeep. Retailers, property owners, and municipalities also bear the expense of cigarette litter cleanup at entrances, exits, and adjacent sidewalks and parking lots.

TIPS TO REDUCE CIGARETTE BUTT LITTER

Appropriate ash receptacles need to be available to smokers who have moved from buildings, businesses, bars and restaurants on to the sidewalks to smoke. Individuals who smoke must accept personal responsibility and choose not to litter.

HERE'S HOW EVERYONE CAN HELP

Carry a portable or pocket ashtray when smoking outside. Encourage smokers to be aware of where their cigarette will be discarded when they light up. Whether smokers are outside public buildings, in parks, on beaches or city sidewalks, a little planning will reduce the number of butts and cigar tips that end up on the ground.

Use a proper receptacle to dispose of cigarette butts and cigar tips. Ash receptacles are needed at the places where people must stop smoking before they proceed. These are called "transition points." Ash receptacles at transition points remind smokers to properly dispose of cigarette butts.

Don't throw butts out car windows. Place cigarette butts and cigar tips in a car ashtray, a portable auto ashtray (which fits in the cup holder), or a container with a secure top.

Be aware of local litter ordinances. Many communities have litter ordinances that include cigarette butt litter. These are enforceable and carry penalties.

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

www.vsu.edu

Appendix MCM 2

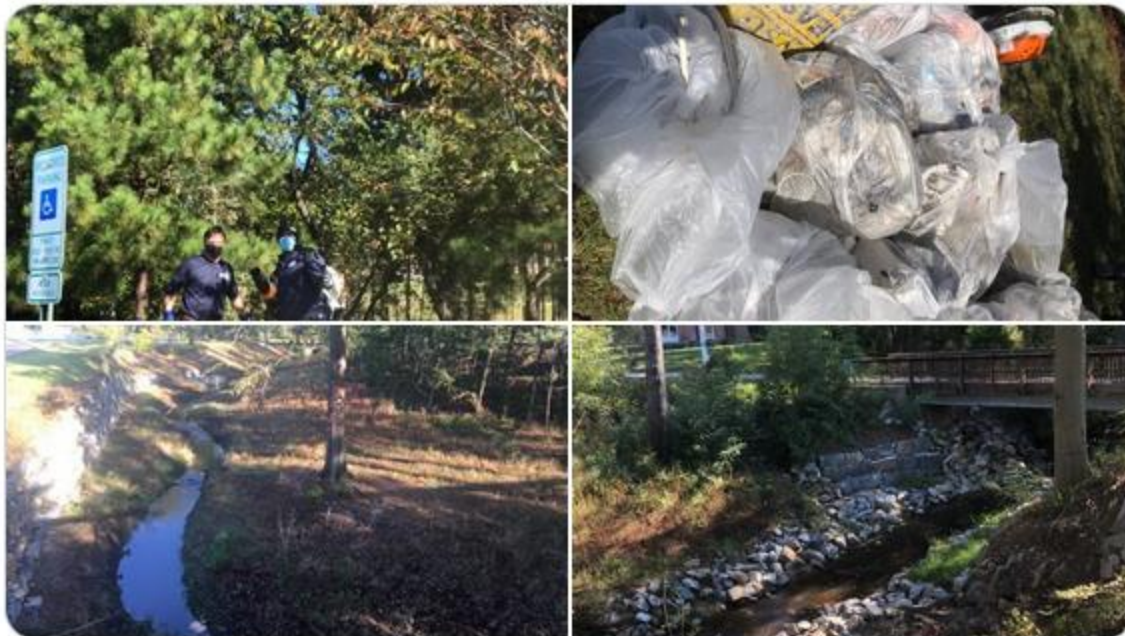
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@VSUFacilities



A big thank you goes out to the volunteers that helped clean up the recently restored Fleets Branch on October 17. We collected 20 bags of trash weighing nearly 500 lbs. Looks beautiful!



3:34 PM · Oct 22, 2020 · Twitter for Android

3 Retweets 1 Quote Tweet 14 Likes





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A crowded park, worsening wildfire danger sparks battle



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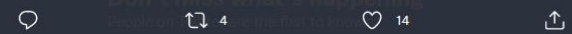
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Bloomberg Quickt...
The last-and-only-foreign scientist in China's Wuhan Lab

VSUFYE @vsufye

Replying to @vsufye

In two hours, students constructed one picnic table and seven benches, stained five existing tables built in January, collected four bags of trash and debris from Fleet's Branch, and planted flowers in one of the plant beds along University Avenue. #VSUTransforms #VSUServes

10:38 AM · Mar 21, 2021 from Hopewell, VA · Twitter for iPhone

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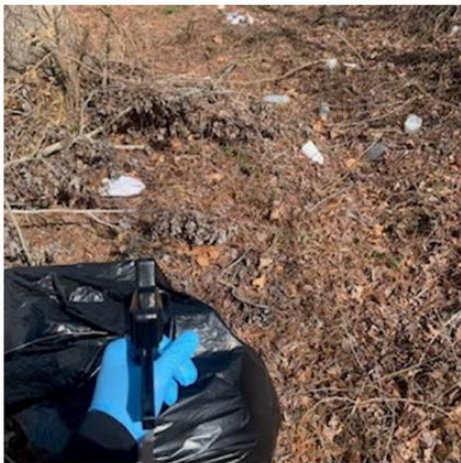


VSUFYE @vsufye · Mar 21

Replying to @vsufye

The students took great pride in their work and had a blast networking while serving their campus community. Thank you for this opportunity Mrs. Jane Harris, @VSUFacilities staff, and @RVAToolBank. We look forward to partnering together again April. #VSUTransforms #VSUServes





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What's happening

Wimbledon 2021

Times Square

National Anthem

COVID-19: News and updates for Virginia

Remembering the Stonewall Riots of 1969



Yesterday, we continued service-learning in Freshman Studies. Students participated in various activities on campus, including table/bench building and staining, campus clean-up, food distribution, and tree planting and education in honor of Arbor Day.

[#VSUTransforms](#) [#VSUServes](#)

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11 Retweets 30 Likes



11 Retweets 30 Likes



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30



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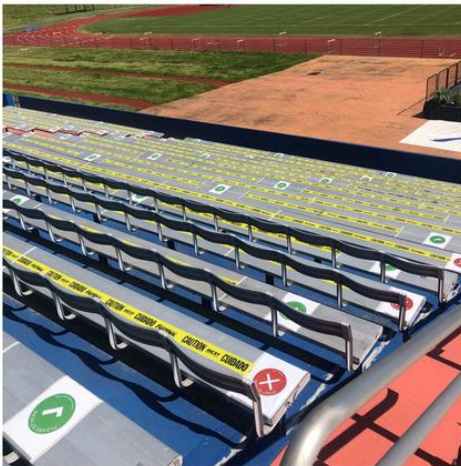
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


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What's happening

Cardi B reveals she's pregnant during her BET Awards performance

Tropical Depression Four

COVID-19: News and updates for Virginia



Michael Rainey, Ed.D.
@musikal_nupe

Yesterday, 49 students answered the call to give back. Trash was collected, flowers planted, nine tables and four benches were built, and seven tables were painted. It warmed our hearts that students selflessly gave of themselves on a Saturday, as well as noting how fun it was.

9:51 PM · May 2, 2021 from Hopewell, VA · Twitter for iPhone

6 Retweets 2 Quote Tweets 11 Likes



Michael Rainey, Ed.D. · May 2
Replying to @musikal_nupe

Thanks to our students, as well as @VSUFacilities for the partnership (especially Jane Harris and Gil Hanzlik). We can't wait for future opportunities. It's a blessing to have students who have an unquenchable thirst to serve. Our hearts are filled with joy! 🧡💙 #VSUServes



Ralph Brogdon Jr. @B · May 3
Replying to @musikal_nupe
@MsFBishop and 3 others

VSU Tree Campus USA & Stormwater Committee Meeting Minutes

September 15, 2020



- **Attendees** – Dr. Witiak, Matt Webb, Leslee Oliver, Neal Beasley, Heather Barrar, Steve Hostetler, Kimberly Conley, Joel Koci, Josh MacDonald, Jane Harris, Gil Hanzlik, Chris Grammer, Jonathan Taylor, David Weddle
- **Spring Event Recap**
 - The Spring Videos were filmed and placed on the University website and social media. Links are below:
 - [Virtual Spring Service Day, 2020 – Steam Restoration](https://www.youtube.com/watch?v=bRg5yVHKAKM&feature=youtu.be)
 - [Tree Campus USA Recertification, 2020](https://www.youtube.com/watch?v=fXF4BXjIKcl&feature=youtu.be)
 - [Facilities E3 Designation](https://www.youtube.com/watch?v=CzPzq7lpDtE&feature=youtu.be)
 - Feedback – students/community/officials, etc.
 - Jane shared films with building managers and had a meeting to review. Also posted on facilities webpage.
 - Not much feedback from campus (on Twitter).
 - Tree Campus USA video won honorable mention for a video contest!
 - Plan is to enter all 3 videos for Governors Env. Excellence award.
 - Thoughts, take-aways, and lessons learned/ideas for improvement
 - VSU is glad they did them!
- **Tree Campus USA Update**
 - Tree Campus USA Standards: <https://www.arborday.org/programs/treecampususa/>
 - 6th designation
 - Need 2 more meetings for the year (Joel to confirm if reqs are relaxed due to COVID)
 - Joel requested inviting additional attendees from the community to future Tree Campus USA meetings.
 - Darryl Walker at Petersburg?
 - VSU students? (Dr. Witiak has a grad student in mind)
- **Tree Care Plan**
 - Current Activities
 - Joel to update the Tree Care Plan his fall.
 - Removals and Replacements
 - Metrics/Deliverables
 - Donated Trees/Tree Partners
 - Joel looking for natives (no crepe myrtles, no black locust, no Bradford pears)
 - Capital Trees
 - Chesapeake Bay Foundation
 - Arbor Day Foundation



- Joel would like to explore constructing a Missouri gravel bed
 - On the farm (left behind urban garden?) or behind Wilder? Summerseat?
 - Small Farm outreach got money for riparian buffer research
 - Irrigation is not necessary for the gravel bed
 - Need to confirm: Is the purpose for landscaping? Forestry? Education? Research?
 - Location depends on ultimate use, would need to be maintained well if in a highly visible location.
- **Grant Awards**
 - NFWF Fleets Branch Stream Restoration <https://www.nfwf.org/sites/default/files/2020-09/chesapeake-bay-2020-grant-slate.pdf>
 - \$500,000 grant
 - 2nd Downstream Segment of Fleet's Branch Stream Restoration to count towards City of Petersburg's TMDL reduction requirements
 - Project is already designed
 - Keep Virginia Beautiful – Cigarette Litter <https://keepvirginiabeautiful.org/2020/06/18/vsu-awarded-1000-for-kick-butt-campaign/>
 - Grant for Cigarette butt receptacle called "ballot bin"
 - Can dispose of cigarette butts on one side or the other to vote
 - VDOT's Ashland-Petersburg Trail
 - Funded by SMART scale (from River Rd, along new bike-ped bridge to end of trail)
 - Ending Patton Park (just south of campus)
 - Not yet awarded, but we are hopeful!
 - Grants will be awarded January 2021 to be included in VDOT's 6-year budget
 - Petersburg applied for the same funding to continue the trail to Old Town.
- **MS4**
 - Current Activities
 - Fall Filterra Inspections & Maintenance – Completed this past Monday
 - Will be wrapping up fall maintenance soon
 - Victor can look at removing cattails from around BMP outlets
 - Spring maintenance
 - Timmons Group to list out specific needs so they can be planned for
 - Planned Activities
 - Lots of uncertainty on when students and faculty may return to campus
 - Student Activities Group looking for opportunities for MLK day
 - 3rd week of January – students may still be virtual
 - Kimberly Conley can add planned activities to the menu of activities for students to participate in but needs specifics by Nov 1.



- **Public Involvement and Participation Events (need 4)**
 - Event 1 – Cigarette Butt Cleanup
 - Keep Virginia Beautiful – Cigarette Litter Grant
 - Presentation between now and Oct 1st.
 - Explaining why preventing cigarette litter is important
 - Can have link to a National Geographic video
 - Ballot Bin Virtual Vote (twitter)
 - Vote for next Student Project, cast your virtual cigarette butt vote (poll)
 - COVID FIT or COVID 15 (lbs)
 - Event 2 – TBD
 - Fleet’s Branch Stream Cleanup? Virtual Cleanup Event?
 - Late October? Probably want to do this before leaves fall.
 - Now is a great opportunity for a cleanup along Fleet’s as the construction has revealed a lot of trash and the vegetation has been cleared, so the trash is visible and accessible. Once the vegetation really takes off in the spring, access will be more difficult.
 - In-person or self-directed? Can we encourage students/faculty to clean up their neighborhood or nearby park if they are remote?
 - How can we incentivize participation? Can this be a contest?
 - Event 3 – TBD
 - MLK Day?
 - Event 4 – TBD
- Potential Event Ideas:
 - Virtual Walking Tour – Stormwater Management and Trees
 - Virtual Scavenger Hunt – search websites for environmental info
 - Stream and Tree Planting Video
 - An activity at the farm
 - Refurbish the Nature Walk
 - Cleanup of the Natural Watershed Area
 - Public Engagement and Education Survey
 - FOLAR has been asking folks to walk the trail and look for Graffiti/camping
 - Community mulching
 - Introducing people to websites that calculate ecosystem services of trees
 - Also tie in with Friday for the Arts? (2nd Friday of every month)
- **Public Education and Outreach (need 2)**
 - Educational material on reducing stormwater pollutants at home?
 - Classroom Guest Presentations via Zoom
 - Dr Witiak open to guest presentation at Plant Morphology, and Grad

VSU Tree Campus USA & Stormwater Committee Meeting Minutes

September 15, 2020



Plant Morphology, and Lab, senior research. Scientific Illustration (landscape dwgs).

- Timmons to coordinate with Dr. Witiak

• Roundtable

- Dr. Witiak wondering how the meadow on the Hill by Appomatox Overlook is doing? Any photos? Flowers were brief. What is the mowing schedule? Usually before move-in, graduation, as requested, etc.
- Dr. Witiak has a contact at Dept. of Forestry (Rebecca Wilson) that would like VSU to have a class to train students on controlled burns.

• Next Meeting

- Oct 21st 2-330pm
- Timmons to be sure to invite Darryl and Dr. Witiak's grad student

VSU Tree Campus USA & Stormwater Committee Meeting Minutes

October 21, 2020



- **Attendees** – Heather Barrar (FOLAR), Matthew Webb (Timmons), Neal Beasley (Timmons), Bonnie Dunkel (Timmons), Chris Grammer (VSU), VSanders, Dr. Witiak (VSU), Darryl Walker (Petersburg), Jonathan Tayler (VSU), Gil (VSU), Victoria Sanders (VSU), Joel Koci
- **Tree Campus USA**
 - Tree Campus USA Standards: <https://www.arborday.org/programs/treecampususa/>
 - How many more meetings are needed for the year?
 - Meet the qualification! (1 meeting per quarter)
- **Tree Care Plan**
 - Current Activities
 - Joel to update the Tree Care Plan his fall.
 - Does not need to amend this year!
 - Removals and Replacements?
 - Timmons to provide tree balance for Fleet’s Branch project.
 - Contractor planning to plant trees in middle November.
 - Donated Trees/Tree Partners
 - Joel looking for natives (no crepe myrtles, no black locust, no Bradford pears)
 - Capital Trees? Chesapeake Bay Foundation? Arbor Day Foundation?
 - Richmond Tree Stewards Community Roots
 - Giving away about 7 types of native trees
 - Application Date was June 30
 - Reforest Richmond is giving away 10,000 Eastern Redbuds from 10/30 – 11/14
 - [Arbor Day RVA](#)
 - They are looking for partners to host tree pickup spots ([form](#))
 - Trees are bare root saplings
 - They will announce pickup spots later
 - They may give priority to organizations in Richmond
 - Joel would like to explore constructing a Missouri gravel bed
 - Need to confirm: Is the purpose for landscaping? Forestry? Education? Research?
 - Location depends on ultimate use, would need to be maintained well if in a highly visible location.
 - Joel taking 6 week learning process (Starting tomorrow) with Univ MD, Penn State, VA Dept Forest of “woods in your backyard”, planning to apply it to the nature trail behind the farm. And will be part of improving nature trail (adding additional signage).
 - Fleets branch planted 500? Sapplings?
 - Might be a space for these redbuds on upper area
 - Joes has a new Tree Campus USA banner – can he put it up near campus gate? Jonathan says ok!
- **Grants**
 - NFWF Fleets Branch Stream Restoration <https://www.nfwf.org/sites/default/files/2020->



[09/chesapeake-bay-2020-grant-slate.pdf](#)

- Separate kickoff meeting this Friday
- VDOT's Ashland-Petersburg Trail
 - Funded by SMART scale
 - From River Rd, along new bike-ped bridge, ending at Patton Park (just S of campus)
 - Today was Governor's announcement of the final name!
 - Not yet awarded, but we are hopeful!
 - Grants will be awarded January 2021 to be included in VDOT's 6-year budget
 - Petersburg applied for the same funding to continue the trail to Old Town.
- **Stormwater (MS4)**
 - Spring Service Event Videos
 - Have the videos been submitted for the Governors Environmental Excellence award? The application deadline is 5pm on Dec 9, 2020.

[Virtual Spring Service Day, 2020 – Steam Restoration](#)

[Tree Campus USA Recertification, 2020](#)

[Facilities E3 Designation](#)

- BMP Maintenance
 - Update on fall maintenance
 - Has Victor looked at removing cattails from around BMP outlets? – Note yet
 - Spring maintenance
 - Timmons Group to list out specific needs so they can be planned for
- Public Events and Outreach
 - Social Media Accounts
 - VSU Facilities Twitter and Facebook? is Jane
 - Crossposts?
 - Kimberly Conley can add planned activities to the menu of activities for students to participate in, but needs specifics by Nov 1.
 - Planning for athletes to return to Campus Dec 1
 - Planning for students to return to campus January/Feb?
 - **Public Involvement and Participation Events (need 4)**
 - Event 1 – Cigarette Butt Cleanup Virtual [Twitter Poll](#)
 - Kicked off Sept 25th
 - About 75 twitter votes!
 - General feedback? Thoughts? Future polls?
 - Event 2 – Fleet's Branch Litter Cleanup?)



- Already cleaned up! Last Saturday
- Gil to send photos to Matt

- Event 3 – TBD
 - Date: VSU Student Activities Group looking for opportunities for MLK day, January 18th.
 - Event: TBD
 - Contingent on when students return to campus

- Event 4 – TBD

- Potential Future Event Ideas:
 - Virtual Walking Tour – Stormwater Management and Trees
 - Virtual Scavenger Hunt – search websites for environmental info
 - Stream and Tree Planting Video
 - An activity at the farm
 - Refurbish the Nature Walk
 - Cleanup of the Natural Watershed Area
 - Public Engagement and Education Survey
 - FOLAR has been asking folks to walk the trail and look for Graffiti/camping
 - Community mulching
 - VSU could get bulk mulch and then deliver to neighbors
 - Along chesterfield Ave?
 - Introducing public to tools that calculate ecosystem services of trees ([i-Tree](#))
 - Also tie in with Friday for the Arts? (2nd Friday of every month)
 - Stock the MPC pond and fishing?
 - Game and Inland fisheries may do education like this or have materials.
 - Invasive management on Fleet’s branch?
 - Forest/successional growth on Fleet’s branch?

- **Public Education and Outreach (need 2)**
 - Educational material on reducing stormwater pollutants at home?
 - Stormwater awareness to all students
 - Litter awareness to all staff
 - Annual Standards and Specification awareness to all contractors and A/E firms
 - Classroom Guest Presentations via Zoom
 - Timmons presented to Dr. Witiak’s class on Oct 7
 - Any interest in future presentations?
 - Get Greek organizations involved in service events

VSU Tree Campus USA & Stormwater Committee Meeting Minutes

October 21, 2020



- Wanted hands on service events
- Students would like to install and paint rain barrels or something like that.

- **Roundtable**

- FOLAR
 - New trailhead/river overlook under design just across the river from campus
 - Hoping to start construction this year!
 - Applying for more funding
 - Blueway plan coming out late fall/winter 2021 by VCU intern
 - Dr. Witiak working with Heather on this
 - OAR at VCU would like to know if VSU is interested in outdoor activities
- Open discussion, any additional Tree Campus USA/Stormwater items?

- **Next Meeting**

- Nov 18th 2-300pm?

VSU Tree Campus USA Meeting Minutes

April 8, 2021



- **Attendees** – Dr. Witiak, Neal Beasley, Heather Barrar, Mike Claud, Jane Harris, Gil Hanzlik, Chris Grammer, Dr. Rainey, Ms. Sanders.
- **Format**- ZOOM- Virtual
- **Arbor Day is Friday, April 30, 2021**
- **Spring Service Event**
 - Jane gave an overview of a new program requirement led by Dr. Rainey where students are required to perform a set number of hours for service-learning. At an event held previously this Spring on March the 30th, students participated in building Benches and Picnic Tables. This effort was in partnership with a non-profit organization, [Richmond ToolBANK](#), which provides power and hand tools for building the furniture to other charitable organizations, schools, government agencies and faith-based groups. This organization started #PROJECTPICNIC with the intention of getting picnic tables into the community and for a fee, a kit with all the wood previously cut can be purchased. This opportunity working with organizations that can facilitate action are just the type of collaboration we are looking for. Here are images of their efforts:

Benches and tables waiting to be sanded and stained



Tables that have been stained



VSU Tree Campus USA Meeting Minutes

April 8, 2021



- Another of these service-learning days is coming soon... **Saturday April the 17th from 10am-noon**. The idea is to piggy-back with this event and have a Tree Campus USA activity. Here are the projected numbers of participants for this event:
 - Campus Clean-up- 30
 - Landscaping- 30
 - Picnic Table/ Bench Building- 30
 - Picnic Table/ Bench Sanding and Staining- 10
- Some ideas for activities include:
 1. Planting the traffic circles along University Avenue. Chris noted they were given funds to plant these circles in the next couple weeks.



2. Planting trees near Lockett Hall. Neal sent ideas for tree species, numbers and location for consideration. Here are suggestions for small flowering, pollinator species to plant as understory and accent of the large trees:
 - Cercis canadensis- Eastern Redbud
 - Amelanchier arborea- Serviceberry
 - Magnolia virginiana- Sweetbay Magnolia
 - Cornus florida- Eastern Flowering Dogwood
 - Chionanthus virginicus- Fringe Tree
 - Suggest order 6-7, 10- 15 gallon trees in containers and plant in a natural pattern in and around the larger trees.
 - Suggest pre-digging the holes.
 - ABM to source the trees.

VSU Tree Campus USA Meeting Minutes

April 8, 2021



3. Deliver finished benches to Fleets Branch area.
4. Plant building entrances at Seward Hall and Williams Hall. Neal to send suggestions for planting.



- **Executive Order 77-2021**
 - Jane familiarize the group with the new [executive order](#) on the reduction of the use of single use plastics.
 - What opportunities are there to associate activities with this order.
 - More information and strategies to come from the University in the near future.
- **Next Meeting**
 - TBD

From: Sarah M. Witiak <switiak@vsu.edu>
Sent: Wednesday, September 16, 2020 3:50 PM
To: Matthew Webb <Matthew.Webb@timmons.com>
Subject: Re: Tree campus USA

Hello Matt,

Thanks!

I think that week should work well. Monday and Wednesday 9:30-11 - Plant Morphology Undergrad class, Wednesday 3-5 is the lab associated with the class, and Tuesday Thursday 12:30-2 is the graduate plant morphology class. We will have mostly completed the march through roots, stems and leaves, as well as some coverage of evolution and general cell structure. I think your idea of discussing how plants can be used to improve water quality (in general and on campus) would be fantastic.

I missed the name of the landscape architect, but I thought that it might be nice to have her share some of the techniques and approaches she uses to combine art and science to develop plans for different sites. I have a biological illustration class, and it would be a nice way to show the students how they can use their artistic and biology skills together in a career. That class meets Tuesday and Thursdays 11-12:30.

Our classes are live on zoom, so you can just come into class on the day that works for you. The students are asking some really good questions this semester, so hopefully, they won't clam up with a visitor!

Here is the zoom link to the virtual classroom.

<https://vsu.zoom.us/j/9290558910>

Thanks again. I think they will like hearing from someone besides me!
Smiles,
Sarah Melissa

[EMAIL FROM EXTERNAL SENDER] [Do not click links or open attachments unless you can confirm the sender and know the content is safe.]

How about one day during the week of October 12th? My calendar is usually pretty clear that far out. I'm happy to present on stormwater to any class you think is most appropriate, but to me it sounds like either the freshman plant morphology or senior research classes might be a good fit. I could even revise the presentation a little to focus more on how plants can be used to improve water quality, especially for existing practices on campus.

Can I ask how you are teaching classes with students currently? Area you teaching via Zoom? If so, would you be able to invite me to a lesson and then I could present that way? Otherwise, I am happy to use whatever format is preferred. I remember you mentioned the class times but I did not catch them all, but if you send me an invite we can go from there?

Thank you for the opportunity!

From: Sarah M. Witiak <switiak@vsu.edu>
Sent: Tuesday, September 15, 2020 3:46 PM
To: Matthew Webb <Matthew.Webb@timmons.com>
Subject: Re: Tree campus USA

Sheila Reeves

From: Sarah M. Witiak <switiak@vsu.edu>
Sent: Tuesday, September 14, 2021 11:28 AM
To: Sheila Reeves
Cc: Jonathan A. Taylor; Tadd Alexander
Subject: Re: VSU Annual Report) Email to Sarah M. Witiak Regarding Virtual Presentation October 2020.

CAUTION: This email originated from outside of the organization. Do not click links or open attachments unless you recognize the sender and know the content is safe.

Oct 14 2020, 3-5 pm Plant Morphology Lab, 5 students.

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@VSU Facilities
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VSU Facilities is thrilled to be awarded a Green Grant by Keep Virginia Beautiful! Funds will be used to purchase "Ballot Box" cigarette butt receptacles. We want to keep butts off the ground and generate some competition! What voting opportunities would you like to see?



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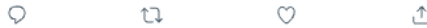
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@VSUFacilities

Cast your virtual vote in our "Ballot Bin" cigarette butt receptacles. We want to keep butts off the ground and generate some competition! What should our next project be - Outdoor Fitness Park or Improved Basketball Court?

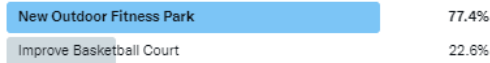


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Replying to @VSUFacilities
What's our next project?



53 votes · Final results



juan @juan62720992 · Sep 18, 2020
Replying to @VSUFacilities
Awesome job



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Appendix MCM 3

VSU

Illicit Discharge Detection Summary

Inspections Conducted on May 14, 2021

Outfall ID	Potential Illicit Discharge Detected?
1	No
2	No
3	No
4	No
5	No
6	No
8	No
9	No
10	No
11	No
12	No
14	No
16	No
17	No
18	No
20	No
21	No
22	No
24	No
27	No



Stormwater Outfall Inspection

Outfall ID: 01	Date: 05/14/2021	Time: 08:24	Inspector: LRC
----------------	------------------	-------------	----------------

LAST RAINFALL

Depth (in): 0.15	End Date: 05/08/2021	End Time: 12:00pm
Weather history can be found at: https://www.wunderground.com/weather/us/va/virginia-state-university		

FLOW

Present?	Yes	If yes:	Approx. discharge rate:	Trickle
			Approx. depth of flow (in):	0.1

POTENTIAL POLLUTANT INDICATORS


Indicator	Present?	Description	Relative Severity Index (1-3)
Odor	No	NA	NA
Turbidity	No	See Severity Index	NA
Floatables	No	NA	NA
Deposits/Stains	Yes	FlowLine	2
Poor Pool Quality	No	NA	NA
Pipe Benthic Growth	No	NA	NA

Notes:
 Not suspected of an illicit discharge because the flow rate is steady, there was no smell, and investigation upstream could not determine a source. No changes to the flow were found upstream within the investigated reach. Reddish staining on rocks in pool and in pipe could indicate potential high iron concentrations, and should continue to be monitored. Some trash present in outfall pool that is recommended to be removed.

CERTIFICATION:

If no suspected illicit discharge is identified, certify the following:

"I certify that the outfall inspection is complete and that no illicit discharge is evident at this time."



Signature

05/14/2021

Date



Stormwater Outfall Inspection

Outfall ID: 01	Date: 05/14/2021	Time: 08:24	Inspector: LRC
----------------	------------------	-------------	----------------

VICINITY MAP



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-77.41963, 37.24291

PHOTOGRAPHS





Stormwater Outfall Inspection

Outfall ID: 02	Date: 05/14/2021	Time: 08:39	Inspector: LRC
----------------	------------------	-------------	----------------

LAST RAINFALL

Depth (in): 0.15	End Date: 05/08/2021	End Time: 12:00pm
Weather history can be found at: https://www.wunderground.com/weather/us/va/virginia-state-university		

FLOW

Present?	No	If yes:	Approx. discharge rate:	NA
			Approx. depth of flow (in):	NA

POTENTIAL POLLUTANT INDICATORS

Indicator	Present?	Description	Relative Severity Index (1-3)
Odor	No	NA	NA
Turbidity	No	See Severity Index	NA
Floatables	No	NA	NA
Deposits/Stains	No	NA	NA
Poor Pool Quality	No	NA	NA
Pipe Benthic Growth	No	NA	NA

Notes:
 The pipe looked clear of both flow and illicit discharge indicators.

CERTIFICATION:

If no suspected illicit discharge is identified, certify the following:

"I certify that the outfall inspection is complete and that no illicit discharge is evident at this time."



 Signature

05/14/2021

 Date



Stormwater Outfall Inspection

Outfall ID: 02	Date: 05/14/2021	Time: 08:39	Inspector: LRC
----------------	------------------	-------------	----------------

VICINITY MAP



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-77.4195, 37.24254

PHOTOGRAPHS





Stormwater Outfall Inspection

Outfall ID: 03	Date: 05/14/2021	Time: 08:48	Inspector: LRC
----------------	------------------	-------------	----------------

LAST RAINFALL

Depth (in): 0.15	End Date: 05/08/2021	End Time: 12:00pm
Weather history can be found at: https://www.wunderground.com/weather/us/va/virginia-state-university		

FLOW

Present?	Yes	If yes:	Approx. discharge rate:	Trickle
			Approx. depth of flow (in):	0.25

POTENTIAL POLLUTANT INDICATORS

Indicator	Present?	Description	Relative Severity Index (1-3)
Odor	No	NA	NA
Turbidity	No	See Severity Index	NA
Floatables	Yes	Suds	1
Deposits/Stains	No	NA	NA
Poor Pool Quality	Yes	Suds	1
Pipe Benthic Growth	No	NA	NA

Notes:
 Not suspected of an illicit discharge because the flow rate is steady, there was no smell, and investigation upstream could not determine a source. No changes to the flow were found upstream within the investigated reach.

CERTIFICATION:

If no suspected illicit discharge is identified, certify the following:

"I certify that the outfall inspection is complete and that no illicit discharge is evident at this time."

Randee Collier

Signature

05/14/2021

Date



Stormwater Outfall Inspection

Outfall ID: 03	Date: 05/14/2021	Time: 08:48	Inspector: LRC
----------------	------------------	-------------	----------------

VICINITY MAP



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PHOTOGRAPHS



If an illicit discharge is suspected, immediately contact Capital Outlay & Facilities and complete the *Illicit Discharge Investigation Form*.
(Version 2019)



Stormwater Outfall Inspection

Outfall ID: 04	Date: 05/14/2021	Time: 08:58	Inspector: LRC
----------------	------------------	-------------	----------------

LAST RAINFALL

Depth (in): 0.15	End Date: 05/08/2021	End Time: 12:00pm
------------------	----------------------	-------------------

Weather history can be found at: <https://www.wunderground.com/weather/us/va/virginia-state-university>

FLOW

Present?	Yes	If yes:	Approx. discharge rate:	Trickle
			Approx. depth of flow (in):	0.05

POTENTIAL POLLUTANT INDICATORS

Indicator	Present?	Description	Relative Severity Index (1-3)
Odor	No	NA	NA
Turbidity	No	See Severity Index	NA
Floatables	No	NA	NA
Deposits/Stains	No	NA	NA
Poor Pool Quality	No	NA	NA
Pipe Benthic Growth	No	NA	NA

Notes:

The pipe looked clear illicit discharge indicators, despite a small steady flow. Trash in outfall area but appeared to be from people throwing over adjacent bridge edge and not necessarily from the outfalls flow. It is recommended this trash be cleared.

CERTIFICATION:

If no suspected illicit discharge is identified, certify the following:

"I certify that the outfall inspection is complete and that no illicit discharge is evident at this time."

Lorinda Colella

Signature

05/14/2021

Date



Stormwater Outfall Inspection

Outfall ID: 04	Date: 05/14/2021	Time: 08:58	Inspector: LRC
----------------	------------------	-------------	----------------

VICINITY MAP



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-77.41839, 37.24147

PHOTOGRAPHS



If an illicit discharge is suspected, immediately contact Capital Outlay & Facilities and complete the *Illicit Discharge Investigation Form*.
(Version 2019)



Stormwater Outfall Inspection

Outfall ID: 05	Date: 05/14/2021	Time: 09:07	Inspector: LRC
----------------	------------------	-------------	----------------

LAST RAINFALL

Depth (in): 0.15	End Date: 05/08/2021	End Time: 12:00pm
------------------	----------------------	-------------------

Weather history can be found at: <https://www.wunderground.com/weather/us/va/virginia-state-university>

FLOW

Present?	No	If yes:	Approx. discharge rate:	NA
			Approx. depth of flow (in):	NA

POTENTIAL POLLUTANT INDICATORS

Indicator	Present?	Description	Relative Severity Index (1-3)
Odor	No	NA	NA
Turbidity	Yes	See Severity Index	1
Floatables	Yes	Suds, Trash	1
Deposits/Stains	No	NA	NA
Poor Pool Quality	Yes	Floatables, Some Algae, Trash	2
Pipe Benthic Growth	No	NA	NA

Notes:

The outfall was difficult to access and partially submerged. There was excessive trash present. The BMP inspection upstream, which included confined space entry, indicated no pollutants present in the upstream BMP. Therefore, the discharges from this outfall are not suspected of illicit discharges. However, the water quality at the pool, including the presence of a dead turtle, algae, and trash could indicate pollutants due to the water sitting stagnant for long periods of time. Recommended actions would be to clear vegetation surrounding the outfall for easier access and removing excessive trash. With excessive trash removed, it is believed the water would be able to flow freely and the water quality would improve.

CERTIFICATION:

If no suspected illicit discharge is identified, certify the following:

"I certify that the outfall inspection is complete and that no illicit discharge is evident at this time."

Signature

05/14/2021

Date



Stormwater Outfall Inspection

Outfall ID: 05	Date: 05/14/2021	Time: 09:07	Inspector: LRC
----------------	------------------	-------------	----------------

VICINITY MAP



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PHOTOGRAPHS





Stormwater Outfall Inspection

Outfall ID: 06	Date: 05/14/2021	Time: 09:29	Inspector: LRC
----------------	------------------	-------------	----------------

LAST RAINFALL

Depth (in): 0.15	End Date: 05/08/2021	End Time: 12:00pm
Weather history can be found at: https://www.wunderground.com/weather/us/va/virginia-state-university		

FLOW

Present?	No	If yes:	Approx. discharge rate:	NA
			Approx. depth of flow (in):	NA

POTENTIAL POLLUTANT INDICATORS


Indicator	Present?	Description	Relative Severity Index (1-3)
Odor	No	NA	NA
Turbidity	No	See Severity Index	NA
Floatables	No	NA	NA
Deposits/Stains	No	NA	NA
Poor Pool Quality	No	NA	NA
Pipe Benthic Growth	No	NA	NA

Notes:
 The pipe looked clear of both flow and illicit discharge indicators.

CERTIFICATION:

If no suspected illicit discharge is identified, certify the following:

"I certify that the outfall inspection is complete and that no illicit discharge is evident at this time."



Signature

05/14/2021

Date



Stormwater Outfall Inspection

Outfall ID: 06	Date: 05/14/2021	Time: 09:29	Inspector: LRC
----------------	------------------	-------------	----------------

VICINITY MAP



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-77.4181, 37.24133

PHOTOGRAPHS



If an illicit discharge is suspected, immediately contact Capital Outlay & Facilities and complete the *Illicit Discharge Investigation Form*.
(Version 2019)



Stormwater Outfall Inspection

Outfall ID: 08	Date: 05/14/2021	Time: 12:44	Inspector: HMA
----------------	------------------	-------------	----------------

LAST RAINFALL

Depth (in): 0.15	End Date: 05/08/2021	End Time: 12:00pm
------------------	----------------------	-------------------

Weather history can be found at: <https://www.wunderground.com/weather/us/va/virginia-state-university>

FLOW

Present?	Yes	If yes:	Approx. discharge rate:	Trickle
			Approx. depth of flow (in):	0.1

POTENTIAL POLLUTANT INDICATORS

Indicator	Present?	Description	Relative Severity Index (1-3)
Odor	No	NA	NA
Turbidity	Yes	See Severity Index	1
Floatables	No	NA	NA
Deposits/Stains	No	NA	NA
Poor Pool Quality	No	NA	NA
Pipe Benthic Growth	Yes	Green	2

Notes:

The pipe had a small flow that did not look to be illicit, with the only other indicator being pipe benthic growth along the energy dissipator section. This is presumed to be from water sitting for long periods of time. Upstream investigation revealed no other indicators. It is recommended the excess tree branches falling along the outfall be removed to allow water to flow freely.

CERTIFICATION:

If no suspected illicit discharge is identified, certify the following:

"I certify that the outfall inspection is complete and that no illicit discharge is evident at this time."

Signature

05/14/2021

Date



Stormwater Outfall Inspection

Outfall ID: 08	Date: 05/14/2021	Time: 12:44	Inspector: HMA
----------------	------------------	-------------	----------------

VICINITY MAP



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-77.41751, 37.24104

PHOTOGRAPHS



If an illicit discharge is suspected, immediately contact Capital Outlay & Facilities and complete the *Illicit Discharge Investigation Form*.
(Version 2019)



Stormwater Outfall Inspection

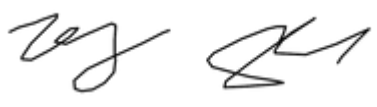
Outfall ID: 09	Date: 05/14/2021	Time: 12:33	Inspector: HMA
----------------	------------------	-------------	----------------

LAST RAINFALL		
Depth (in): 0.15	End Date: 05/08/2021	End Time: 12:00pm
Weather history can be found at: https://www.wunderground.com/weather/us/va/virginia-state-university		

FLOW				
Present?	No	If yes:	Approx. discharge rate:	NA
			Approx. depth of flow (in):	NA

POTENTIAL POLLUTANT INDICATORS			
Indicator	Present?	Description	Relative Severity Index (1-3)
Odor	No	NA	NA
Turbidity	No	See Severity Index	NA
Floatables	No	NA	NA
Deposits/Stains	No	NA	NA
Poor Pool Quality	No	NA	NA
Pipe Benthic Growth	No	NA	NA

Notes:
 The pipe looked clear of both flow and illicit discharge indicators. The pipe has become disconnected from the flume. It is recommended this be repaired to prevent further erosion and potential end section separation and failure.

CERTIFICATION:	
If no suspected illicit discharge is identified, certify the following:	
"I certify that the outfall inspection is complete and that no illicit discharge is evident at this time."	
 <hr style="width: 80%; margin: 0 auto;"/> Signature	05/14/2021 <hr style="width: 80%; margin: 0 auto;"/> Date



Stormwater Outfall Inspection

Outfall ID: 09	Date: 05/14/2021	Time: 12:33	Inspector: HMA
----------------	------------------	-------------	----------------

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If an illicit discharge is suspected, immediately contact Capital Outlay & Facilities and complete the *Illicit Discharge Investigation Form*.
(Version 2019)



Stormwater Outfall Inspection

Outfall ID: 10	Date: 05/14/2021	Time: 09:39	Inspector: LRC
----------------	------------------	-------------	----------------

LAST RAINFALL

Depth (in): 0.15	End Date: 05/08/2021	End Time: 12:00pm
------------------	----------------------	-------------------

Weather history can be found at: <https://www.wunderground.com/weather/us/va/virginia-state-university>

FLOW

Present?	Yes	If yes:	Approx. discharge rate:	Moderate
			Approx. depth of flow (in):	0.25

POTENTIAL POLLUTANT INDICATORS

Indicator	Present?	Description	Relative Severity Index (1-3)
Odor	No	NA	NA
Turbidity	No	See Severity Index	NA
Floatables	No	NA	NA
Deposits/Stains	No	NA	NA
Poor Pool Quality	No	NA	NA
Pipe Benthic Growth	No	NA	NA

Notes:
 The pipe looked clear of both flow and illicit discharge indicators, however, flow does not reach the outfall which may impact these findings. Flow was not coming out of the pipe but could be heard. Looking down the pipe, it looks as though the water drops off somewhere before reaching the outfall. See photos for more context. This issue is scheduled to be resolved through the stream restoration of Fleets Branch that is on-going.

CERTIFICATION:

If no suspected illicit discharge is identified, certify the following:

"I certify that the outfall inspection is complete and that no illicit discharge is evident at this time."

Signature

05/14/2021

Date



Stormwater Outfall Inspection

Outfall ID: 10	Date: 05/14/2021	Time: 09:39	Inspector: LRC
----------------	------------------	-------------	----------------

VICINITY MAP



PHOTOGRAPHS



If an illicit discharge is suspected, immediately contact Capital Outlay & Facilities and complete the *Illicit Discharge Investigation Form*.
(Version 2019)



Stormwater Outfall Inspection

Outfall ID: 11	Date: 05/14/2021	Time: 10:02	Inspector: LRC
----------------	------------------	-------------	----------------

LAST RAINFALL

Depth (in): 0.15	End Date: 05/08/2021	End Time: 12:00pm
------------------	----------------------	-------------------

Weather history can be found at: <https://www.wunderground.com/weather/us/va/virginia-state-university>

FLOW

Present?	Yes	If yes:	Approx. discharge rate:	Trickle
			Approx. depth of flow (in):	0.1

POTENTIAL POLLUTANT INDICATORS

Indicator	Present?	Description	Relative Severity Index (1-3)
Odor	Yes	Rancid/Sour	2
Turbidity	Yes	See Severity Index	2
Floatables	Yes	Sheen	2
Deposits/Stains	Yes	Sheen	2
Poor Pool Quality	Yes	Colors, Floatables, Excessive Algae	2
Pipe Benthic Growth	No	NA	NA

Notes:

The pipe looked to have a flow, as well as several other indicators present that could indicate illicit discharge. The outfall was difficult to access. It is important to note this is the outfall to an upstream BMP (BMP #30). The BMP inspection for this facility noted erosion, cattails, and excessive duckweed. It is suspected the excessive duckweed indicates the pond likely has turned anaerobic.

RECOMMENDED FOLLOW-UP ACTION:

It is recommended once receiving the findings of this report, VSU take steps in removing the excessive duckweed to see if this improves the water quality of the discharge. Additionally, a review of the nutrient management plan and staff implementation of that plan may be required. There is a well-maintained lawn just upstream of the BMP that slopes towards the BMP, and the maintenance of this area could be impacting the water quality of the BMP.



Stormwater Outfall Inspection

Outfall ID: 11	Date: 05/14/2021	Time: 10:02	Inspector: LRC
----------------	------------------	-------------	----------------

VICINITY MAP



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-77.41512, 37.23947

PHOTOGRAPHS





Stormwater Outfall Inspection


Outfall ID: 12	Date: 05/14/2021	Time: 12:21	Inspector: HMA
----------------	------------------	-------------	----------------

LAST RAINFALL		
Depth (in): 0.15	End Date: 05/08/2021	End Time: 12:00pm
Weather history can be found at: https://www.wunderground.com/weather/us/va/virginia-state-university		

FLOW				
Present?	No	If yes:	Approx. discharge rate:	NA
			Approx. depth of flow (in):	NA

POTENTIAL POLLUTANT INDICATORS			
Indicator	Present?	Description	Relative Severity Index (1-3)
Odor	No	NA	NA
Turbidity	No	See Severity Index	NA
Floatables	No	NA	NA
Deposits/Stains	No	NA	NA
Poor Pool Quality	No	NA	NA
Pipe Benthic Growth	No	NA	NA

Notes:
 The pipe looked clear of both flow and illicit discharge indicators. It is recommended the outfall be cleared of tree branches and debris currently obstructing the outfall.

CERTIFICATION:	
If no suspected illicit discharge is identified, certify the following:	
"I certify that the outfall inspection is complete and that no illicit discharge is evident at this time."	
 <hr style="width: 100%; border: 0; border-top: 1px solid black;"/> Signature	05/14/2021 <hr style="width: 100%; border: 0; border-top: 1px solid black;"/> Date



Stormwater Outfall Inspection

Outfall ID: 12	Date: 05/14/2021	Time: 12:21	Inspector: HMA
----------------	------------------	-------------	----------------

VICINITY MAP



-77.41386, 37.23749

PHOTOGRAPHS



If an illicit discharge is suspected, immediately contact Capital Outlay & Facilities and complete the *Illicit Discharge Investigation Form*.
(Version 2019)



Stormwater Outfall Inspection

Outfall ID: 14	Date: 05/14/2021	Time: 11:21	Inspector: HMA
----------------	------------------	-------------	----------------

LAST RAINFALL

Depth (in): 0.15	End Date: 05/08/2021	End Time: 12:00pm
Weather history can be found at: https://www.wunderground.com/weather/us/va/virginia-state-university		

FLOW

Present?	No	If yes:	Approx. discharge rate:	NA
			Approx. depth of flow (in):	NA

POTENTIAL POLLUTANT INDICATORS

Indicator	Present?	Description	Relative Severity Index (1-3)
Odor	No	NA	NA
Turbidity	No	See Severity Index	NA
Floatables	No	NA	NA
Deposits/Stains	No	NA	NA
Poor Pool Quality	No	NA	NA
Pipe Benthic Growth	No	NA	NA

Notes:

The pipe outfall did not have any flow and there were no indicators of illicit discharges present. This outfall area contained significant erosion, which could be dangerous to the adjacent road if not addressed soon. An entire section of the concrete outfall pipe has fallen off into the eroded area. Additionally, there is a plastic pipe, with an unknown origin of where it is discharging from, that is completely exposed next to the outfall location. It is recommended to follow up with a stabilization plan, as well as determining the purpose of the plastic exposed pipe.

CERTIFICATION:

If no suspected illicit discharge is identified, certify the following:

"I certify that the outfall inspection is complete and that no illicit discharge is evident at this time."

Signature

05/14/2021

Date



Stormwater Outfall Inspection

Outfall ID: 14	Date: 05/14/2021	Time: 11:21	Inspector: HMA
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VICINITY MAP



-77.41638, 37.23514

PHOTOGRAPHS





Stormwater Outfall Inspection

Outfall ID: 16	Date: 05/14/2021	Time: 10:39	Inspector: LRC
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LAST RAINFALL

Depth (in): 0.15	End Date: 05/08/2021	End Time: 12:00pm
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Weather history can be found at: <https://www.wunderground.com/weather/us/va/virginia-state-university>

FLOW

Present?	Yes	If yes:	Approx. discharge rate:	Moderate
			Approx. depth of flow (in):	0.25

POTENTIAL POLLUTANT INDICATORS

Indicator	Present?	Description	Relative Severity Index (1-3)
Odor	No	NA	NA
Turbidity	No	See Severity Index	NA
Floatables	No	NA	NA
Deposits/Stains	No	NA	NA
Poor Pool Quality	No	NA	NA
Pipe Benthic Growth	No	NA	NA

Notes:

The pipe had a small, steady flow that did not look to be illicit, with no indicators present. Investigation upstream to determine the source of the flow offered no additional findings.

CERTIFICATION:

If no suspected illicit discharge is identified, certify the following:

"I certify that the outfall inspection is complete and that no illicit discharge is evident at this time."

Signature

05/14/2021

Date



Stormwater Outfall Inspection

Outfall ID: 16	Date: 05/14/2021	Time: 10:39	Inspector: LRC
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VICINITY MAP



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-77.41646, 37.23447

PHOTOGRAPHS



If an illicit discharge is suspected, immediately contact Capital Outlay & Facilities and complete the *Illicit Discharge Investigation Form*.
(Version 2019)



Stormwater Outfall Inspection

Outfall ID: 17	Date: 05/14/2021	Time: 10:33	Inspector: LRC
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LAST RAINFALL

Depth (in): 0.15	End Date: 05/08/2021	End Time: 12:00pm
Weather history can be found at: https://www.wunderground.com/weather/us/va/virginia-state-university		

FLOW

Present?	No	If yes:	Approx. discharge rate:	NA
			Approx. depth of flow (in):	NA

POTENTIAL POLLUTANT INDICATORS

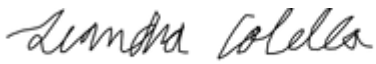
Indicator	Present?	Description	Relative Severity Index (1-3)
Odor	No	NA	NA
Turbidity	No	See Severity Index	NA
Floatables	No	NA	NA
Deposits/Stains	No	NA	NA
Poor Pool Quality	No	NA	NA
Pipe Benthic Growth	No	NA	NA

Notes:
 The pipe did not have a flow, and no indicators were present therefore no illicit discharge was suspected. There was a significant amount of sediment buildup, and it is recommended this be removed to allow the pipes to flow at full capacity.

CERTIFICATION:

If no suspected illicit discharge is identified, certify the following:

"I certify that the outfall inspection is complete and that no illicit discharge is evident at this time."



Signature

05/14/2021

Date



Stormwater Outfall Inspection

Outfall ID: 17	Date: 05/14/2021	Time: 10:33	Inspector: LRC
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VICINITY MAP



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-77.41643, 37.23407

PHOTOGRAPHS



If an illicit discharge is suspected, immediately contact Capital Outlay & Facilities and complete the *Illicit Discharge Investigation Form*.
(Version 2019)



Stormwater Outfall Inspection

Outfall ID: 18	Date: 05/14/2021	Time: 11:04	Inspector: HMA
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LAST RAINFALL

Depth (in): 0.15	End Date: 05/08/2021	End Time: 12:00pm
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Weather history can be found at: <https://www.wunderground.com/weather/us/va/virginia-state-university>

FLOW

Present?	No	If yes:	Approx. discharge rate:	NA
			Approx. depth of flow (in):	NA

POTENTIAL POLLUTANT INDICATORS

Indicator	Present?	Description	Relative Severity Index (1-3)
Odor	No	NA	NA
Turbidity	Yes	See Severity Index	1
Floatables	No	NA	NA
Deposits/Stains	No	NA	NA
Poor Pool Quality	Yes	Colors	1
Pipe Benthic Growth	Yes	Brown	1

Notes:

Outfall 18 was located along the Appomattox River, and extremely difficult to access due to excessive vegetation and briars. The outfall was crushed by multiple tree branches, and it is recommended it be restored. The pipe was not flowing at the time of the investigation. The pool the outfall discharged to was turbid, and slightly colored. Just downstream of the pool, excess branches (Photo #4 on the following page) were blocking the flow. It was concluded with these branches blocking flow, the water sits stagnant, and this could be why the pool was slightly turbid and discolored. There was no smell or other obvious indicators, therefore, the outfall was determined to not be suspected of illicit discharge. It is recommended an access path be cleared for this outfall, and that debris blocking the flow path of the water be removed.

CERTIFICATION:

If no suspected illicit discharge is identified, certify the following:

"I certify that the outfall inspection is complete and that no illicit discharge is evident at this time."

Signature

05/14/2021

Date



Stormwater Outfall Inspection

Outfall ID: 18	Date: 05/14/2021	Time: 11:04	Inspector: HMA
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VICINITY MAP



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-77.41584, 37.23337

PHOTOGRAPHS





Stormwater Outfall Inspection

Outfall ID: 20	Date: 05/14/2021	Time: 11:51	Inspector: HMA
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LAST RAINFALL

Depth (in): 0.15	End Date: 05/08/2021	End Time: 12:00pm
Weather history can be found at: https://www.wunderground.com/weather/us/va/virginia-state-university		

FLOW

Present?	No	If yes:	Approx. discharge rate:	NA
			Approx. depth of flow (in):	NA

POTENTIAL POLLUTANT INDICATORS

Indicator	Present?	Description	Relative Severity Index (1-3)
Odor	No	NA	NA
Turbidity	No	See Severity Index	NA
Floatables	No	NA	NA
Deposits/Stains	No	NA	NA
Poor Pool Quality	No	NA	NA
Pipe Benthic Growth	No	NA	NA

Notes:
 The pipe looked clear of both flow and illicit discharge indicators. It is recommended the outfall be cleared plants and grass that have started to grow over the outfall.

CERTIFICATION:

If no suspected illicit discharge is identified, certify the following:
 "I certify that the outfall inspection is complete and that no illicit discharge is evident at this time."

Signature

05/14/2021

Date



Stormwater Outfall Inspection

Outfall ID: 20	Date: 05/14/2021	Time: 11:51	Inspector: HMA
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VICINITY MAP



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-77.41735, 37.23279

PHOTOGRAPHS



If an illicit discharge is suspected, immediately contact Capital Outlay & Facilities and complete the *Illicit Discharge Investigation Form*.
(Version 2019)



Stormwater Outfall Inspection

Outfall ID: 21	Date: 05/14/2021	Time: 11:35	Inspector: HMA
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LAST RAINFALL

Depth (in): 0.15	End Date: 05/08/2021	End Time: 12:00pm
Weather history can be found at: https://www.wunderground.com/weather/us/va/virginia-state-university		

FLOW

Present?	No	If yes:	Approx. discharge rate:	NA
			Approx. depth of flow (in):	NA

POTENTIAL POLLUTANT INDICATORS

Indicator	Present?	Description	Relative Severity Index (1-3)
Odor	No	NA	NA
Turbidity	No	See Severity Index	NA
Floatables	No	NA	NA
Deposits/Stains	Yes	FlowLine	2
Poor Pool Quality	No	NA	NA
Pipe Benthic Growth	No	NA	NA

Notes:
 This outfall was not suspected of an illicit discharge due to there being no flow or overwhelming smell. The faint red staining on rocks below outfall and in pipe could indicate potential high iron concentrations, and should continue to be monitored.

CERTIFICATION:

If no suspected illicit discharge is identified, certify the following:

"I certify that the outfall inspection is complete and that no illicit discharge is evident at this time."

Signature

05/14/2021

Date



Stormwater Outfall Inspection

Outfall ID: 21	Date: 05/14/2021	Time: 11:35	Inspector: HMA
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VICINITY MAP



-77.41799, 37.23302

PHOTOGRAPHS



If an illicit discharge is suspected, immediately contact Capital Outlay & Facilities and complete the *Illicit Discharge Investigation Form*.
(Version 2019)



Stormwater Outfall Inspection

Outfall ID: 22	Date: 05/14/2021	Time: 11:42	Inspector: HMA
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LAST RAINFALL

Depth (in): 0.15	End Date: 05/08/2021	End Time: 12:00pm
Weather history can be found at: https://www.wunderground.com/weather/us/va/virginia-state-university		

FLOW

Present?	Yes	If yes:	Approx. discharge rate:	Substantial
			Approx. depth of flow (in):	0.6

POTENTIAL POLLUTANT INDICATORS


Indicator	Present?	Description	Relative Severity Index (1-3)
Odor	No	NA	NA
Turbidity	No	See Severity Index	NA
Floatables	No	NA	NA
Deposits/Stains	No	NA	NA
Poor Pool Quality	No	NA	NA
Pipe Benthic Growth	Yes	Green	1

Notes:
 Substantial flow was exiting this pipe. Based on upstream investigation, it is unclear where this flow is coming from. However, the flow was clear and besides the indicator of green algae pipe benthic growth, all other indicators would suggest the discharge is not illicit. The Illicit Discharge Detection and Elimination (IDDE) manual states benthic growth of this kind could be due to excessive use of lawn chemicals. It is recommended the nutrient management plan be reviewed and potentially revised if excessive chemicals are being used on the lawn area just north of the outfall. If this area is noted in the nutrient management plan, additional education to lawn care staff should be communicated.


CERTIFICATION:

If no suspected illicit discharge is identified, certify the following:

"I certify that the outfall inspection is complete and that no illicit discharge is evident at this time."



 Signature



 Date

05/14/2021

Date



Stormwater Outfall Inspection

Outfall ID: 22	Date: 05/14/2021	Time: 11:42	Inspector: HMA
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VICINITY MAP



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-77.41846, 37.23307

PHOTOGRAPHS





Stormwater Outfall Inspection

Outfall ID: 24	Date: 05/14/2021	Time: 09:19	Inspector: LRC
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LAST RAINFALL

Depth (in): 0.15	End Date: 05/08/2021	End Time: 12:00pm
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Weather history can be found at: <https://www.wunderground.com/weather/us/va/virginia-state-university>

FLOW

Present?	No	If yes:	Approx. discharge rate:	NA
			Approx. depth of flow (in):	NA

POTENTIAL POLLUTANT INDICATORS

Indicator	Present?	Description	Relative Severity Index (1-3)
Odor	No	NA	NA
Turbidity	No	See Severity Index	NA
Floatables	No	NA	NA
Deposits/Stains	No	NA	NA
Poor Pool Quality	No	NA	NA
Pipe Benthic Growth	No	NA	NA

Notes:

The pipe looked clear of both flow and illicit discharge indicators. It is recommended that the current rip rap be relocated to ensure it is not above the pipe invert.

CERTIFICATION:

If no suspected illicit discharge is identified, certify the following:

"I certify that the outfall inspection is complete and that no illicit discharge is evident at this time."

Alexandra Colella

Signature

05/14/2021

Date



Stormwater Outfall Inspection

Outfall ID: 24	Date: 05/14/2021	Time: 09:19	Inspector: LRC
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VICINITY MAP



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-77.41803, 37.24173

PHOTOGRAPHS



If an illicit discharge is suspected, immediately contact Capital Outlay & Facilities and complete the *Illicit Discharge Investigation Form*.
(Version 2019)



Stormwater Outfall Inspection

Outfall ID: 27	Date: 05/14/2021	Time: 11:54	Inspector: HMA
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LAST RAINFALL

Depth (in): 0.15	End Date: 05/08/2021	End Time: 12:00pm
Weather history can be found at: https://www.wunderground.com/weather/us/va/virginia-state-university		

FLOW

Present?	Yes	If yes:	Approx. discharge rate:	Trickle
			Approx. depth of flow (in):	0.1

POTENTIAL POLLUTANT INDICATORS

Indicator	Present?	Description	Relative Severity Index (1-3)
Odor	No	NA	NA
Turbidity	No	See Severity Index	NA
Floatables	No	NA	NA
Deposits/Stains	No	NA	NA
Poor Pool Quality	No	NA	NA
Pipe Benthic Growth	No	NA	NA

Notes:
 The pipe looked to have a small flow, but no indicators were present at the pipe nor upstream, therefore no illicit discharge was suspected.

CERTIFICATION:

If no suspected illicit discharge is identified, certify the following:
 "I certify that the outfall inspection is complete and that no illicit discharge is evident at this time."

Signature

05/14/2021

Date



Stormwater Outfall Inspection

Outfall ID: 27	Date: 05/14/2021	Time: 11:54	Inspector: HMA
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VICINITY MAP



PHOTOGRAPHS



If an illicit discharge is suspected, immediately contact Capital Outlay & Facilities and complete the *Illicit Discharge Investigation Form*.
(Version 2019)

Appendix MCM 4



ESC/SW INSPECTION REPORT

(To be completed by VSU DEQ-Certified personnel, and where VSU is the GCP Holder)

Project Name: Fleets Branch Stream Restoration Project Authority: Art W. Robinson, IV
 RLD Name: Gregory Flagg RLD No. RLD 01128
 Project Location: Fleets Branch Stream Project No: 212-17980-003
 Inspector Name: Steve Vargo Inspection Date: 07/01/20 Time: 1000
 Most Recent Measurable Storm Event: Date: 07/01/20 Amount: 0.26"

Previous violation(s) been corrected: N/A

STAGE OF CONSTRUCTION

- | | | |
|--|--|---|
| Pre-Construction Conference <input type="checkbox"/> | Building Construction <input type="checkbox"/> | Construction of SW Facilities <input type="checkbox"/> |
| Clearing & Grubbing <input type="checkbox"/> | Finish Grading <input type="checkbox"/> | Maintenance of SW Facilities <input type="checkbox"/> |
| Rough Grading <input type="checkbox"/> | Final Stabilization <input type="checkbox"/> | Other <u>Stream Restoration</u> <input checked="" type="checkbox"/> |

Item#	State/Local Regulation ⁽¹⁾	Violation		Description and Location of Problem/Violation ⁽²⁾ , Required or Recommended Corrective Actions, and Other Comments/Notes
		Initial	Repeat	
				No previous violations

1. Refers to applicable regulation found in the most recent publication of the Virginia Erosion and Sediment Control Regulations (9VAC25-840), Virginia Stormwater Management Permit Regulations (9VAC25-870), or Annual Standards and Specifications for ESC and SW
2. Note whether or not off-site damage resulting from the problem/violation was evident during the inspection.

REQUIRED CORRECTIVE ACTION DEADLINE DATE: N/A Re-inspection Date: N/A
(DD/MM/YY) (DD/MM/YY)

The required corrective action deadline date applies to all violations noted on this report. If listed violation(s) currently constitute non-compliance and/or required corrective actions are not completed by the deadline, a **NOTICE TO COMPLY, STOP WORK ORDER**, and/or other enforcement actions may be issued to the entity responsible for ensuring compliance on the above project.

Inspector: Steve Vargo ESIN 0747 07/02/20
 Signature a _____ e Number _____ Date _____

Acknowledgement of on-site report receipt: _____
Print Name Signature Date

This report will be provided to the following parties via mail, fax, or e-mail within 24 hours of inspection:



ESC/SW INSPECTION REPORT

(To be completed by VSU DEQ-Certified personnel, and where VSU is the GCP Holder)

Project Name: Fleets Branch Stream Restoration Project Authority: Art W. Robinson, IV
RLD Name: Gregory Flagg RLD No. RLD 01128
Project Location: Fleets Branch Stream Project No: 212-17980-003
Inspector Name: Steve Vargo Inspection Date: 07/09/20 Time: 1430
Most Recent Measurable Storm Event: Date: 07/02/20 Amount: 1.02"

Previous violation(s) been corrected: N/A

STAGE OF CONSTRUCTION

- Pre-Construction Conference
- Clearing & Grubbing
- Rough Grading
- Building Construction
- Finish Grading
- Final Stabilization
- Construction of SW Facilities
- Maintenance of SW Facilities
- Other Stream Restoration

Item#	State/Local Regulation ⁽¹⁾	Violation		Description and Location of Problem/Violation ⁽²⁾ , Required or Recommended Corrective Actions, and Other Comments/Notes
		Initial	Repeat	
				No previous violations

- Refers to applicable regulation found in the most recent publication of the Virginia Erosion and Sediment Control Regulations (9VAC25-840), Virginia Stormwater Management Permit Regulations (9VAC25-870), or Annual Standards and Specifications for ESC and SW
- Note whether or not off-site damage resulting from the problem/violation was evident during the inspection.

REQUIRED CORRECTIVE ACTION DEADLINE DATE: N/A Re-inspection Date: N/A
(DD/MM/YY) (DD/MM/YY)

The required corrective action deadline date applies to all violations noted on this report. If listed violation(s) currently constitute non-compliance and/or required corrective actions are not completed by the deadline, a **NOTICE TO COMPLY, STOP WORK ORDER**, and/or other enforcement actions may be issued to the entity responsible for ensuring compliance on the above project.

Inspector: Steve Vargo ESIN 0747 07/09/20
Signature a...e Number Date

Acknowledgement of on-site report receipt: _____
Print Name Signature Date

This report will be provided to the following parties via mail, fax, or e-mail within 24 hours of inspection:



ESC/SW INSPECTION REPORT

(To be completed by VSU DEQ-Certified personnel, and where VSU is the GCP Holder)

Project Name: Fleets Branch Stream Restoration Project Authority: Art W. Robinson, IV
RLD Name: Gregory Flagg RLD No. RLD 01128
Project Location: Fleets Branch Stream Project No: 212-17980-003
Inspector Name: Steve Vargo Inspection Date: 07/15/20 Time: 1100
Most Recent Measurable Storm Event: Date: 07/13/20 Amount: 0.3"

Previous violation(s) been corrected: N/A

STAGE OF CONSTRUCTION

- Pre-Construction Conference
- Clearing & Grubbing
- Rough Grading
- Building Construction
- Finish Grading
- Final Stabilization
- Construction of SW Facilities
- Maintenance of SW Facilities
- Other Stream Restoration

Item#	State/Local Regulation ⁽¹⁾	Violation		Description and Location of Problem/Violation ⁽²⁾ , Required or Recommended Corrective Actions, and Other Comments/Notes
		Initial	Repeat	
				No previous violations

- Refers to applicable regulation found in the most recent publication of the Virginia Erosion and Sediment Control Regulations (9VAC25-840), Virginia Stormwater Management Permit Regulations (9VAC25-870), or Annual Standards and Specifications for ESC and SW
- Note whether or not off-site damage resulting from the problem/violation was evident during the inspection.

REQUIRED CORRECTIVE ACTION DEADLINE DATE: N/A Re-inspection Date: N/A
(DD/MM/YY) (DD/MM/YY)

The required corrective action deadline date applies to all violations noted on this report. If listed violation(s) currently constitute non-compliance and/or required corrective actions are not completed by the deadline, a **NOTICE TO COMPLY, STOP WORK ORDER**, and/or other enforcement actions may be issued to the entity responsible for ensuring compliance on the above project.

Inspector: Steve Vargo ESIN 0747 07/16/20
Signature a...e Number Date

Acknowledgement of on-site report receipt: _____
Print Name Signature Date

This report will be provided to the following parties via mail, fax, or e-mail within 24 hours of inspection:



ESC/SW INSPECTION REPORT

(To be completed by VSU DEQ-Certified personnel, and where VSU is the GCP Holder)

Project Name: Fleets Branch Stream Restoration Project Authority: Art W. Robinson, IV
RLD Name: Gregory Flagg RLD No. RLD 01128
Project Location: Fleets Branch Stream Project No: 212-17980-003
Inspector Name: Steve Vargo Inspection Date: 07/21/20 Time: 1500
Most Recent Measurable Storm Event: Date: 07/18/20 Amount: 0.3"

Previous violation(s) been corrected: N/A

STAGE OF CONSTRUCTION

- Pre-Construction Conference
- Clearing & Grubbing
- Rough Grading
- Building Construction
- Finish Grading
- Final Stabilization
- Construction of SW Facilities
- Maintenance of SW Facilities
- Other Stream Restoration

Item#	State/Local Regulation ⁽¹⁾	Violation		Description and Location of Problem/Violation ⁽²⁾ , Required or Recommended Corrective Actions, and Other Comments/Notes
		Initial	Repeat	
				No previous violations

- Refers to applicable regulation found in the most recent publication of the Virginia Erosion and Sediment Control Regulations (9VAC25-840), Virginia Stormwater Management Permit Regulations (9VAC25-870), or Annual Standards and Specifications for ESC and SW
- Note whether or not off-site damage resulting from the problem/violation was evident during the inspection.

REQUIRED CORRECTIVE ACTION DEADLINE DATE: N/A Re-inspection Date: N/A
(DD/MM/YY) (DD/MM/YY)

The required corrective action deadline date applies to all violations noted on this report. If listed violation(s) currently constitute non-compliance and/or required corrective actions are not completed by the deadline, a **NOTICE TO COMPLY, STOP WORK ORDER**, and/or other enforcement actions may be issued to the entity responsible for ensuring compliance on the above project.

Inspector: Steve Vargo ESIN 0747 07/22/20
Signature a...e Number Date

Acknowledgement of on-site report receipt: _____
Print Name Signature Date

This report will be provided to the following parties via mail, fax, or e-mail within 24 hours of inspection:



ESC/SW INSPECTION REPORT

(To be completed by VSU DEQ-Certified personnel, and where VSU is the GCP Holder)

Project Name: Fleets Branch Stream Restoration Project Authority: Art W. Robinson, IV
RLD Name: Gregory Flagg RLD No. RLD 01128
Project Location: Fleets Branch Stream Project No: 212-17980-003
Inspector Name: Steve Vargo Inspection Date: 2020-07-29 Time: 11am
Most Recent Measurable Storm Event: Date: 2020-07-26 Amount: 0.72"

Previous violation(s) been corrected: N/A

STAGE OF CONSTRUCTION

Pre-Construction Conference Building Construction Construction of SW Facilities
Clearing & Grubbing Finish Grading Maintenance of SW Facilities
Rough Grading Final Stabilization Other Stream Restoration

Item#	State/Local Regulation ⁽¹⁾	Violation		Description and Location of Problem/Violation ⁽²⁾ , Required or Recommended Corrective Actions, and Other Comments/Notes
		Initial	Repeat	
				Channel and bank grading, matting applied as work progresses, no items for correction. Ensure dewatering bag is protected on slopes.

- Refers to applicable regulation found in the most recent publication of the Virginia Erosion and Sediment Control Regulations (9VAC25-840), Virginia Stormwater Management Permit Regulations (9VAC25-870), or Annual Standards and Specifications for ESC and SW
- Note whether or not off-site damage resulting from the problem/violation was evident during the inspection.

REQUIRED CORRECTIVE ACTION DEADLINE DATE: N/A Re-inspection Date: N/A
(DD/MM/YY) (DD/MM/YY)

The required corrective action deadline date applies to all violations noted on this report. If listed violation(s) currently constitute non-compliance and/or required corrective actions are not completed by the deadline, a **NOTICE TO COMPLY, STOP WORK ORDER**, and/or other enforcement actions may be issued to the entity responsible for ensuring compliance on the above project.

Inspector: Steve Vargo ESIN-0747 Date: 2020-07-29
Signature and DEQ Certificate Number Date

Acknowledgement of on-site report receipt: _____
Print Name Signature Date

This report will be provided to the following parties via mail, fax, or e-mail within 24 hours of inspection:



ESC/SW INSPECTION REPORT

(To be completed by VSU DEQ-Certified personnel, and where VSU is the GCP Holder)

Project Name: Fleets Branch Stream Restoration Project Authority: Art W. Robinson, IV
RLD Name: Gregory Flagg RLD No. RLD 01128
Project Location: Fleets Branch Stream Project No: 212-17980-003
Inspector Name: Steve Vargo Inspection Date: 2020-08-12 Time: 4:30 pm
Most Recent Measurable Storm Event: Date: 2020-08-09 Amount: 0.24"

Previous violation(s) been corrected: N/A

STAGE OF CONSTRUCTION

- Pre-Construction Conference
- Clearing & Grubbing
- Rough Grading
- Building Construction
- Finish Grading
- Final Stabilization
- Construction of SW Facilities
- Maintenance of SW Facilities
- Other Stream Restoration

Item#	State/Local Regulation ⁽¹⁾	Violation		Description and Location of Problem/Violation ⁽²⁾ , Required or Recommended Corrective Actions, and Other Comments/Notes
		Initial	Repeat	
				Channel and bank grading, matting applied as work progresses, no items for correction. No activity due to current rain.

- Refers to applicable regulation found in the most recent publication of the Virginia Erosion and Sediment Control Regulations (9VAC25-840), Virginia Stormwater Management Permit Regulations (9VAC25-870), or Annual Standards and Specifications for ESC and SW
- Note whether or not off-site damage resulting from the problem/violation was evident during the inspection.

REQUIRED CORRECTIVE ACTION DEADLINE DATE: N/A Re-inspection Date: N/A
(DD/MM/YY) (DD/MM/YY)

The required corrective action deadline date applies to all violations noted on this report. If listed violation(s) currently constitute non-compliance and/or required corrective actions are not completed by the deadline, a **NOTICE TO COMPLY, STOP WORK ORDER**, and/or other enforcement actions may be issued to the entity responsible for ensuring compliance on the above project.

Inspector: Steve Vargo ESIN-0747 2020-08-12
Signature and DEQ Certificate Number Date

Acknowledgement of on-site report receipt: _____
Print Name Signature Date

This report will be provided to the following parties via mail, fax, or e-mail within 24 hours of inspection:



ESC/SW INSPECTION REPORT

(To be completed by VSU DEQ-Certified personnel, and where VSU is the GCP Holder)

Project Name: Fleets Branch Stream Restoration Project Authority: Art W. Robinson, IV
RLD Name: Gregory Flagg RLD No. RLD 01128
Project Location: Fleets Branch Stream Project No: 212-17980-003
Inspector Name: Steve Vargo Inspection Date: 2020-08-21 Time: 12:30 pm
Most Recent Measurable Storm Event: Date: 2020-08-18 Amount: 0.24"

Previous violation(s) been corrected: N/A

STAGE OF CONSTRUCTION

Pre-Construction Conference Building Construction Construction of SW Facilities
Clearing & Grubbing Finish Grading Maintenance of SW Facilities
Rough Grading Final Stabilization Other Stream Restoration

Item#	State/Local Regulation ⁽¹⁾	Violation		Description and Location of Problem/Violation ⁽²⁾ , Required or Recommended Corrective Actions, and Other Comments/Notes
		Initial	Repeat	
				Last upper section of channel and bank grading, matting applied as work progresses, no items for correction.

- Refers to applicable regulation found in the most recent publication of the Virginia Erosion and Sediment Control Regulations (9VAC25-840), Virginia Stormwater Management Permit Regulations (9VAC25-870), or Annual Standards and Specifications for ESC and SW
- Note whether or not off-site damage resulting from the problem/violation was evident during the inspection.

REQUIRED CORRECTIVE ACTION DEADLINE DATE: N/A Re-inspection Date: N/A
(DD/MM/YY) (DD/MM/YY)

The required corrective action deadline date applies to all violations noted on this report. If listed violation(s) currently constitute non-compliance and/or required corrective actions are not completed by the deadline, a **NOTICE TO COMPLY, STOP WORK ORDER**, and/or other enforcement actions may be issued to the entity responsible for ensuring compliance on the above project.

Inspector: Steve Vargo ESIN-0747 Date: 2020-08-21
EQ Certificate Number

Acknowledgement of on-site report receipt: _____
Print Name Signature Date

This report will be provided to the following parties via mail, fax, or e-mail within 24 hours of inspection:



ESC/SW INSPECTION REPORT

(To be completed by VSU DEQ-Certified personnel, and where VSU is the GCP Holder)

Project Name: Fleets Branch Stream Restoration Project Authority: Art W. Robinson, IV
RLD Name: Gregory Flagg RLD No. RLD 01128
Project Location: Fleets Branch Stream Project No: 212-17980-003
Inspector Name: Steve Vargo Inspection Date: 2020-09-03 Time: 11am
Most Recent Measurable Storm Event: Date: 2020-09-02 Amount: 0.98"

Previous violation(s) been corrected: N/A

STAGE OF CONSTRUCTION

- Pre-Construction Conference
- Clearing & Grubbing
- Rough Grading
- Building Construction
- Finish Grading
- Final Stabilization
- Construction of SW Facilities
- Maintenance of SW Facilities
- Other

Item#	State/Local Regulation ⁽¹⁾	Violation		Description and Location of Problem/Violation ⁽²⁾ , Required or Recommended Corrective Actions, and Other Comments/Notes
		Initial	Repeat	
				Channel and bank grading are complete, matting applied to all slopes, Reclamation, re-grading and stabilization underway to project access corridor.

- Refers to applicable regulation found in the most recent publication of the Virginia Erosion and Sediment Control Regulations (9VAC25-840), Virginia Stormwater Management Permit Regulations (9VAC25-870), or Annual Standards and Specifications for ESC and SW
- Note whether or not off-site damage resulting from the problem/violation was evident during the inspection.

REQUIRED CORRECTIVE ACTION DEADLINE DATE: N/A (DD/MM/YY) Re-inspection Date: N/A (DD/MM/YY)

The required corrective action deadline date applies to all violations noted on this report. If listed violation(s) currently constitute non-compliance and/or required corrective actions are not completed by the deadline, a **NOTICE TO COMPLY, STOP WORK ORDER**, and/or other enforcement actions may be issued to the entity responsible for ensuring compliance on the above project.

Inspector: Steve Vargo ESIN-0747 2020-09-03
Signature EQ Certificate Number Date

Acknowledgement of on-site report receipt: _____
 Print Name Signature Date

This report will be provided to the following parties via mail, fax, or e-mail within 24 hours of inspection:



ESC/SW INSPECTION REPORT

(To be completed by VSU DEQ-Certified personnel, and where VSU is the GCP Holder)

Project Name: Fleets Branch Stream Restoration Project Authority: Art W. Robinson, IV
 RLD Name: Gregory Flagg RLD No. RLD 01128
 Project Location: Fleets Branch Stream Project No: 212-17980-003
 Inspector Name: Steve Vargo Inspection Date: 2020-09-19 Time: 11am
 Most Recent Measurable Storm Event: Date: 2020-09-18 Amount: 3.01"

N/A

Previous violation(s) been corrected:

STAGE OF CONSTRUCTION

Pre-Construction Conference Building Construction Construction of SW Facilities
 Clearing & Grubbing Finish Grading Maintenance of SW Facilities
 Rough Grading Final Stabilization Other

Item#	State/Local Regulation ⁽¹⁾	Violation		Description and Location of Problem/Violation ⁽²⁾ , Required or Recommended Corrective Actions, and Other Comments/Notes
		Initial	Repeat	
				All stream work and reclamation activities are complete. Stabilization applied to entire project. Vegetation establishing in the reclaimed access corridor, will continue monitoring until final stabilization achieved.

- Refers to applicable regulation found in the most recent publication of the Virginia Erosion and Sediment Control Regulations (9VAC25-840), Virginia Stormwater Management Permit Regulations (9VAC25-870), or Annual Standards and Specifications for ESC and SW
- Note whether or not off-site damage resulting from the problem/violation was evident during the inspection.

REQUIRED CORRECTIVE ACTION DEADLINE DATE: N/A (DD/MM/YY) Re-inspection Date: N/A (DD/MM/YY)

The required corrective action deadline date applies to all violations noted on this report. If listed violation(s) currently constitute non-compliance and/or required corrective actions are not completed by the deadline, a **NOTICE TO COMPLY, STOP WORK ORDER**, and/or other enforcement actions may be issued to the entity responsible for ensuring compliance on the above project.

Inspector: Steve Vargo ESIN-0747 DEQ Certificate Number 2020-09-19 Date

Acknowledgement of on-site report receipt:		
_____	_____	_____
Print Name	Signature	Date
This report will be provided to the following parties via mail, fax, or e-mail within 24 hours of inspection:		



ESC/SW INSPECTION REPORT

(To be completed by VSU DEQ-Certified personnel, and where VSU is the GCP Holder)

Project Name: Fleets Branch Stream Restoration Project Authority: Art W. Robinson, IV
RLD Name: Gregory Flagg RLD No. RLD 01128
Project Location: Fleets Branch Stream Project No: 212-17980-003
Inspector Name: Steve Vargo Inspection Date: 2020-09-29 Time: 10am
Most Recent Measurable Storm Event: Date: 2020-09-26 Amount: 0.72"

Previous violation(s) been corrected: N/A

STAGE OF CONSTRUCTION

- Pre-Construction Conference
- Clearing & Grubbing
- Rough Grading
- Building Construction
- Finish Grading
- Final Stabilization
- Construction of SW Facilities
- Maintenance of SW Facilities
- Other

Item#	State/Local Regulation ⁽¹⁾	Violation		Description and Location of Problem/Violation ⁽²⁾ , Required or Recommended Corrective Actions, and Other Comments/Notes
		Initial	Repeat	
				All stream work and reclamation activities are complete. Stabilization applied to entire project. Vegetation establishing in the reclaimed access corridor, will continue monitoring until final stabilization achieved.

- Refers to applicable regulation found in the most recent publication of the Virginia Erosion and Sediment Control Regulations (9VAC25-840), Virginia Stormwater Management Permit Regulations (9VAC25-870), or Annual Standards and Specifications for ESC and SW
- Note whether or not off-site damage resulting from the problem/violation was evident during the inspection.

REQUIRED CORRECTIVE ACTION DEADLINE DATE: N/A (DD/MM/YY) Re-inspection Date: N/A (DD/MM/YY)

The required corrective action deadline date applies to all violations noted on this report. If listed violation(s) currently constitute non-compliance and/or required corrective actions are not completed by the deadline, a **NOTICE TO COMPLY, STOP WORK ORDER**, and/or other enforcement actions may be issued to the entity responsible for ensuring compliance on the above project.

Inspector: Steve Vargo ESIN-0747 Date: 2020-09-29
Signature EQ Certificate Number

Acknowledgement of on-site report receipt: _____
 Print Name Signature Date

This report will be provided to the following parties via mail, fax, or e-mail within 24 hours of inspection:



ESC/SW INSPECTION REPORT

(To be completed by VSU DEQ-Certified personnel, and where VSU is the GCP Holder)

Project Name: Fleets Branch Stream Restoration Project Authority: Jonathan A. Taylor
RLD Name: Gregory Flagg RLD No. RLD 01128
Project Location: Fleets Branch Stream Project No: 212-17980-003
Inspector Name: Steve Vargo Inspection Date: 04/21/21 Time: 1430
Most Recent Measurable Storm Event: Date: 04/20/21 Amount: 0.16"

Previous violation(s) been corrected: YES or NO

STAGE OF CONSTRUCTION

Pre-Construction Conference Building Construction Construction of SW Facilities
Clearing & Grubbing Finish Grading Maintenance of SW Facilities
Rough Grading Final Stabilization Other

Item#	State/Local Regulation ⁽¹⁾	Violation		Description and Location of Problem/Violation ⁽²⁾ , Required or Recommended Corrective Actions, and Other Comments/Notes
		Initial	Repeat	
01		N/A		Additional seed mix applied to bare areas along restoration reach.
				Continue monitoring on a monthly basis until full vegetative coverage is established.

- Refers to applicable regulation found in the most recent publication of the Virginia Erosion and Sediment Control Regulations (9VAC25-840), Virginia Stormwater Management Permit Regulations (9VAC25-870), or Annual Standards and Specifications for ESC and SW
- Note whether or not off-site damage resulting from the problem/violation was evident during the inspection.

REQUIRED CORRECTIVE ACTION DEADLINE DATE: Complete Re-inspection Date: 05/20/21
(DD/MM/YY) (DD/MM/YY)

The required corrective action deadline date applies to all violations noted on this report. If listed violation(s) currently constitute non-compliance and/or required corrective actions are not completed by the deadline, a **NOTICE TO COMPLY, STOP WORK ORDER**, and/or other enforcement actions may be issued to the entity responsible for ensuring compliance on the above project.

Inspector: Steve Vargo ESIN 0747 Date: 04/26/21
Certificate Number

Acknowledgement of on-site report receipt: _____
Print Name Signature Date

This report will be provided to the following parties via mail, fax, or e-mail within 24 hours of inspection:



ESC/SW INSPECTION REPORT

(To be completed by VSU DEQ-Certified personnel, and where VSU is the GCP Holder)

Project Name: Fleets Branch Stream Restoration Project Authority: Jonathan A. Taylor
RLD Name: Gregory Flagg RLD No. RLD 01128
Project Location: Fleets Branch Stream Project No: 212-17980-003
Inspector Name: Steve Vargo Inspection Date: 2021-05-21 Time: 1130
Most Recent Measurable Storm Event: Date: 2021-04-24 Amount: 0.38"

Previous violation(s) been corrected: YES or NO

STAGE OF CONSTRUCTION

Pre-Construction Conference Building Construction Construction of SW Facilities
Clearing & Grubbing Finish Grading Maintenance of SW Facilities
Rough Grading Final Stabilization Other

Item#	State/Local Regulation ⁽¹⁾	Violation		Description and Location of Problem/Violation ⁽²⁾ , Required or Recommended Corrective Actions, and Other Comments/Notes
		Initial	Repeat	
01	3.32			Robust vegetation establishment in the lower half of stream restoration reach. Recent re-seeding in the upper half of the restoration reach. Weak vegetation growth observed, with little to no rain in the previous several weeks. No erosion observed. Continue to monitor for permanent vegetation establishment.

- Refers to applicable regulation found in the most recent publication of the Virginia Erosion and Sediment Control Regulations (9VAC25-840), Virginia Stormwater Management Permit Regulations (9VAC25-870), or Annual Standards and Specifications for ESC and SW
- Note whether or not off-site damage resulting from the problem/violation was evident during the inspection.

REQUIRED CORRECTIVE ACTION DEADLINE DATE: N/A Re-inspection Date: 2021-06-21
(DD/MM/YY) (DD/MM/YY)

The required corrective action deadline date applies to all violations noted on this report. If listed violation(s) currently constitute non-compliance and/or required corrective actions are not completed by the deadline, a **NOTICE TO COMPLY, STOP WORK ORDER**, and/or other enforcement actions may be issued to the entity responsible for ensuring compliance on the above project.

Inspector: Steve Vargo ESIN-0747 2021-05-24
Signature and lumber Date

Acknowledgement of on-site report receipt: _____
Print Name Signature Date

This report will be provided to the following parties via mail, fax, or e-mail within 24 hours of inspection:

Appendix MCM 5

Stormwater Management Facilities

ID	Type	Location	Latitude	Longitude	Total Acres Treated	Pervious Acres Treated	Impervious Acres Treated	Date Brought Online	6th Order HUC	Owner	Operator	Part of TMDL Action Plan?	Maintenance Aggrement?	Date of Last Inspection
01	Filtrerra (Roof Inlet)	Gateway II Dorm Building	37.242304	-77.417352	0.07	0.0	0.07	06/2011	JA40	VSU	VSU	No	NA	6/16/2021
02	Filtrerra (Roof Inlet)	Gateway II Dorm Building	37.242166	-77.417371	0.04	0.0	0.04	06/2011	JA40	VSU	VSU	No	NA	6/16/2021
03	Filtrerra (Roof Inlet)	Gateway II Dorm Building	37.242007	-77.417094	0.07	0.0	0.07	06/2011	JA40	VSU	VSU	No	NA	6/16/2021
04	Filtrerra (Roof Inlet)	Gateway II Dorm Building	37.241731	-77.417437	0.11	0.0	0.11	06/2011	JA40	VSU	VSU	No	NA	6/16/2021
05	Filtrerra (Roof Inlet)	Gateway II Dorm Building	37.241792	-77.417129	0.05	0.0	0.05	06/2011	JA40	VSU	VSU	No	NA	6/16/2021
06	Filtrerra (Roof Inlet)	Gateway II Dorm Building	37.241562	-77.417472	0.07	0.0	0.07	06/2011	JA40	VSU	VSU	No	NA	6/16/2021
07	Filtrerra (Curb Inlet)	Gateway II Dorm Parking Lot #30M	37.242022	-77.416447	0.22	0.04	0.18	06/2011	JA40	VSU	VSU	No	NA	6/14/2021
08	Filtrerra (Curb Inlet)	Gateway II Dorm Parking Lot #30M	37.241666	-77.416268	0.38	0.03	0.35	06/2011	JA40	VSU	VSU	No	NA	6/14/2021
09	Filtrerra (Curb Inlet)	Gateway II Dorm Parking Lot #30M	37.241321	-77.416303	0.40	0.02	0.38	06/2011	JA40	VSU	VSU	No	NA	6/14/2021
10	Filtrerra (Curb Inlet)	Gateway II Dorm Parking Lot #30M	37.241038	-77.416410	0.34	0.03	0.31	06/2011	JA40	VSU	VSU	No	NA	6/14/2021
11	Filtrerra (Curb Inlet)	Gateway II Dorm Parking Lot #30M	37.241020	-77.416548	0.35	0.02	0.33	06/2011	JA40	VSU	VSU	No	NA	6/14/2021
12	Filtrerra (Curb Inlet)	Gateway II Dorm Parking Lot #30M	37.241493	-77.416913	0.23	0.03	0.20	06/2011	JA40	VSU	VSU	No	NA	6/14/2021
13	Filtrerra (Curb Inlet)	Gateway II Dorm Parking Lot #30M	37.241327	-77.416974	0.18	0.06	0.12	06/2011	JA40	VSU	VSU	No	NA	6/14/2021
15	Underground Storage Vault	Gateway II Dorm Parking Lot #30M	37.241286	-77.416623	NA	NA	NA	06/2011	JA40	VSU	VSU	No	NA	6/16/2021
16	Filtrerra (Roof Inlet)	Howard Hall Quad II Building	37.236886	-77.422202	0.5	0.0	0.5	01/2012	JA40	VSU	VSU	No	NA	6/16/2021
17	Filtrerra (Roof Inlet)	Howard Hall Quad II Building	37.236580	-77.422026	0.5	0.0	0.5	01/2012	JA40	VSU	VSU	No	NA	6/16/2021
18	Filtrerra (Roof Inlet)	Howard Hall Quad II Building	37.236638	-77.421840	0.12	0.0	0.12	01/2012	JA40	VSU	VSU	No	NA	6/16/2021
19	Filtrerra (Roof Inlet)	Howard Hall Quad II Building	37.237131	-77.421430	0.09	0.0	0.09	01/2012	JA40	VSU	VSU	No	NA	6/16/2021
20	Filtrerra (Roof Inlet)	Howard Hall Quad II Building	37.236981	-77.421743	0.08	0.0	0.08	01/2012	JA40	VSU	VSU	No	NA	6/16/2021
21	Filtrerra (Roof Inlet)	Howard Hall Quad II Building	37.237152	-77.421285	0.27	0.01	0.26	01/2012	JA40	VSU	VSU	No	NA	6/16/2021
22	Contech Stormfilter	Howard Hall Quad II Courtyard	37.236854	-77.421296	0.14	0.02	0.12	01/2012	JA40	VSU	VSU	No	NA	6/16/2021
23	Contech Stormfilter	Howard Hall Quad II Courtyard	37.236752	-77.421605	0.46	0.05	0.39	01/2012	JA40	VSU	VSU	No	NA	6/16/2021
24	Underground Irrigation Storage (50,000 Gallons)	Howard Hall Quad II Courtyard	37.236860	-77.421690	NA	NA	NA	01/2012	JA40	VSU	VSU	No	NA	6/16/2021
25	Underground CMP Detention	West Yard of Howard Hall Quad II	37.236424	-77.421959	NA	NA	NA	01/2012	JA40	VSU	VSU	No	NA	6/16/2021
26	Underground CMP Detention	Howard Hall Quad II Courtyard	37.236933	-77.421531	NA	NA	NA	01/2012	JA40	VSU	VSU	No	NA	6/16/2021
27	Underground Detention Chamber w/ Sand Filters	Howard Hall Quad I Courtyard	37.236619	-77.421166	1.90	1.07	0.83	04/2011	JA40	VSU	VSU	No	NA	6/16/2021
28	Underground Irrigation Storage Vault	Howard Hall Quad I	37.236466	-77.421249	0.00	0.00	0.00	04/2011	JA40	VSU	VSU	No	NA	6/16/2021
29	Extended Detention Basin	Physical Plant Building	37.237497	-77.414375	5.49	0.97	4.52	03/1994	JA40	VSU	VSU	No	NA	6/17/2021
30	Retention Basin Type III	Behind Jesse R. Bolling (ROTC Building)	37.239482	-77.415527	20.99	10.14	10.85	03/2002	JA40	VSU	VSU	No	NA	6/17/2021
31	Deleware Sand Filter	Cooperative Extension Agriculture/Wilder Building	37.241139	-77.417943	1.17	0.32	0.85	05/1994	JA40	VSU	VSU	No	NA	6/14/2021
32	Sorbtive Filter 2C	Boisseau St. Parking Lot # 36	37.236994	-77.422473	0.38	0.01	0.37	04/2011	JA40	VSU	VSU	No	NA	6/17/2021
33	Sorbtive Filter 1C	Boisseau St. Parking Lot #37	37.236761	-77.422861	0.39	0.03	0.36	04/2011	JA40	VSU	VSU	No	NA	6/17/2021
34	Sorbtive Filter 10C	Lee St. Parking Lot #21	37.236190	-77.422153	0.44	0.02	0.42	04/2011	JA40	VSU	VSU	No	NA	6/17/2021
35	Contech Stormfilter	University Bookstore	37.237440	-77.418709	0.10	.01	.09	04/2014	JA40	VSU	VSU	No	NA	6/16/2021
36	Underground Storage Vault	University Bookstore	37.237507	-77.418556	NA	NA	NA	04/2014	JA40	VSU	VSU	No	NA	6/16/2021
37	Underground Storage Vault	Lee St. Parking Lot #21	37.236097	-77.422090	NA	NA	NA	04/2011	JA40	VSU	VSU	No	NA	6/17/2021
38	Underground Storage Vault	Boisseau St. Parking Lot #36	37.236943	-77.422522	NA	NA	NA	04/2011	JA40	VSU	VSU	No	NA	6/17/2021
39	Underground Storage Vault	Boisseau St. Parkign Lot #37	37.236699	-77.422896	NA	NA	NA	04/2011	JA40	VSU	VSU	No	NA	6/17/2021
40	Underground Storage Vault	Dupuy Avenue Parking Lot	37.242507	-77.416410	NA	NA	NA	01/04/2016	JA40	VSU	VSU	No	NA	6/16/2021
41	Filtrerra (Curb Inlet)	Dupuy Avenue Parking Lot	37.242727	-77.416434	0.53	0.08	0.45	01/04/2016	JA40	VSU	VSU	No	NA	6/14/2021
42	Filtrerra (Curb Inlet)	Dupuy Avenue Parking Lot	37.242737	-77.416673	0.47	0.15	0.32	01/04/2016	JA40	VSU	VSU	No	NA	6/14/2021
43	Filtrerra (Curb Inlet)	Dupuy Avenue Parking Lot	37.242310	-77.416422	0.47	0.03	0.44	01/04/2016	JA40	VSU	VSU	No	NA	6/14/2021
44	Filtrerra (Curb Inlet)	Dupuy Avenue Parking Lot	37.241859	-77.416157	0.28	0.04	0.24	01/04/2016	JA40	VSU	VSU	No	NA	6/14/2021
45	Extended Detention Pond	North side of River Rd., next to Fleets Branch	37.244275	-77.420233	12.30			06/01/2016	JA40	VSU	VDOT	No	NA	9/30/2020
46	Extended Detention Pond	Next to Multi Purpose Center, along 3rd Ave.	37.239210	-77.422700	32.00	11.56	20.44	06/01/2016	JA40	VSU	VSU	No	NA	6/17/2021
47	Contech Stormfilter	College Ave. Parking Lot #28	37.241705	-77.419085	2.59	1.52	1.07	06/01/2016	JA40	VSU	VSU	No	NA	6/16/2021
48	Contech Stormfilter	Dining & Events Center	37.242029	-77.417852	2.48	0.91	1.57	06/01/2016	JA40	VSU	VSU	No	NA	6/16/2021
49	Contech Stormfilter	Dining & Events Center	37.242093	-77.418481	4.45	1.66	2.79	06/01/2016	JA40	VSU	VSU	No	NA	6/16/2021
50	Contech Underground Storage Vault	Dining & Events Center	37.241974	-77.418139	NA	NA	NA	06/01/2016	JA40	VSU	VSU	No	NA	6/17/2021
51	Fleets Branch Stream Restoration Phase1	Fleets Branch	37.242590	-77.419278	477.55	NA	148.91	09/18/2020	JA40	VSU	VSU	Yes	NA	4/24/2021



Legend

- MS4 Regulated Area
- ★ MS4 Outfall
- Stormwater Management Facility



**Virginia State University
MS4 Map
September 2021**

Basin Inspections

Submitted by: Anonymous user

SWMID

20189

District

Richmond

General BMP

Basin

Specific BMP

Dry Detention Basin - IIC (Legacy)

Inspector Name

Todd.Shank@VDOT.Virginia.gov

Inspection Type

Annual Inspection

Inspection Date

Sep 30, 2020

NEXTINSPDATE

Sep 30, 2021

REL_GLOBALID

{37907D3A-0553-46B5-9014-E0905A49CD15}

Accessibility

General Access

BMP is sufficiently accessible

Yes

Gates and Locks

Gate is acceptably operable

Yes

Fences

Fence in acceptable condition

No

Vegetation removal and/or minor adjustments necessary

Yes

Fence in disrepair or portions of fence missing

Yes

Signs

BMP ID and/or Instructional signs stipulated on plans are present and in good condition; posts are vertical and stable

Yes

Inflow Area/ Inlet Channel(s)

Erosion, Sediment, Trash and Debris

The BMP surface inflow area is free of erosion, sediment, trash, or debris

Yes

Impoundment – Treatment Area

Trash and Debris

BMP impoundment (water storage/treatment), bottom area and shoreline free of trash or debris

Yes

Erosion

The non-pool area of the BMP bottom, excavated side slopes and shoreline free of erosion

Yes

Vegetation

The non-pool area of the BMP bottom area and on the basin's excavated side slopes and shoreline has greater than 75% coverage of turf or other herbaceous vegetation

Yes

Control Structure (Principal Spillway/Riser Pipe)

Low-Flow Orifice

Low-flow orifice trash guard is securely in place, undamaged and functional

No

Original trash rack not attached but present on site, or no trash rack observed where there appears to be a need

Yes

High-Flow Orifice

High-Flow Orifice is free of obstructions

Yes

High-flow orifice trash rack is securely in place, undamaged and functional

Yes

Inspection Rating

C

Basin Notes

20189 Inspection Rating / C

Action items

- 1. Accessibility/ Fence- Repair fence. Remove or spray vegetation on fenceline.**
- 2. Control structure/low flow- Replace missing trash rack at low flow orifice.**

Attachments:



ACFC_PIC1-20200930-105713.JPG



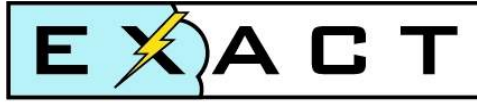
ACFC_PIC2-20200930-105733.JPG



CSLO_PIC1-20200930-105915.JPG



20189 Overview-20200930-105922.JPG



STORMWATER MANAGEMENT

P.O. Box 1301
Midlothian VA 23113
(804) 302-5151,
Info@exactstorm.com
09/17/2020

CUSTOMER	SERVICE LOCATION
Timmons Group Matthew Webb 1001 Boulders Parkway, Suite 300 Richmond VA 23225 (804) 200-6544	VSU Filterra Maintenance VSU 1 Hayden Drive Petersburg VA

JOB DETAILS	Maintenance of Parking Lot Filterras: Units 7-13, 41-44
-------------	---

COMPLETION NOTES	Completed maintenance of 10 Filterra Units. Removed trash and debris and installed inlet stones. Completed checklist for each Filterra unit.
------------------	--

PICTURES



Unit 7: Before



Unit 7: After



Unit 7: after 2 rows Inlet stones installed



8: tree is growing over grate



Unit 8: Before



Unit 8: After 2 row inlet stones installed



Unit 8: After



Unit 9: Before



Unit 9: After



Unit 9: after 2 rows inlet stones installed.



Unit 10: before Tree is dead and broken. Customer would like price to replace both trees with red buds or dogwoods.



Unit 10: Before



Unit 10: Before



Unit 10: Major erosion to right of unit 10



Unit 10: After



Unit 10: After



Unit 10: After



Unit 10: After 2 rows of inlet stones installed.



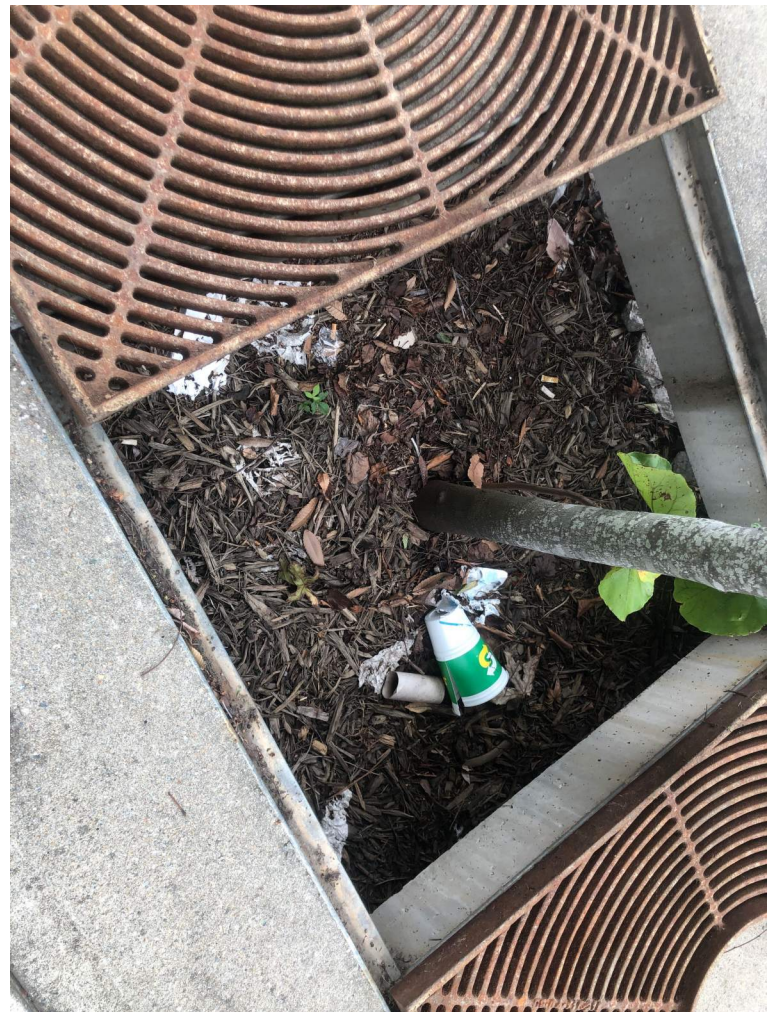
Unit 10: After 2 rows of inlet stones installed.



Unit 11: Before



Unit 11: After



Unit 12: Before



Unit 12: After



Unit 12: After, 2 rows of inlet stones installed



Unit 13: needs new tree, its root bound.



Unit 13: After



Unit 13: After 2 rows of inlet stones installed.



41 Unit before



Unit 41: After



Unit 41: After



Unit 41: after 2 rows of inlet stones installed



Unit 42: Before



Unit 42: Before



Unit 42: After



Unit 42: after 2 rows of inlet stones installed



Unit 43: Before



Unit 43: After



Unit 43: After 2 rows inlet stones installed



Unit 44: Before



Unit 44: After



Unit 44: after 2 rows inlet stones installed



Filterra BMPs
Inspection & Maintenance Checklist

Inspector Name: <u>Reid Walsh</u>		Type: <u>Inlet</u> / Roof	Size: <u>6x8</u>		
BMP ID #: <u>Unit 7</u>		Date/Time:			
Component	(Circle Y/N)	Comments			
Initial Observations					
Standing Water?	Y <input type="radio"/> N <input checked="" type="radio"/>				
Damage to Box Structure?	Y <input type="radio"/> N <input checked="" type="radio"/>				
Damage to Grate?	Y <input type="radio"/> N <input checked="" type="radio"/>				
Is Bypass Clear?	<input checked="" type="radio"/> Y <input type="radio"/> N				
Waste					
Silt/Clay?	Y <input type="radio"/> N <input checked="" type="radio"/>				
Cups/Bags/Trash?	Y <input type="radio"/> N <input checked="" type="radio"/>				
Leaves?	Y <input type="radio"/> N <input checked="" type="radio"/>				
Other?	Y <input type="radio"/> N <input checked="" type="radio"/>				
Erosion Control					
Netting in Need of Replacement?	Y <input type="radio"/> N <input type="radio"/> NA <input checked="" type="radio"/>				
Stones in Need of Replacement?	Y <input type="radio"/> N <input checked="" type="radio"/> NA				
Mulch					
Depth from Top of Slab to Surface of Mulch	Inlet Filterra	Roof Filterra	Comments		
Measured (in.):	<u>16"</u>				
Allowed range (in.):	16" - 18"	23" - 25"			
Notes: If measured depth exceeds the allowed range, add mulch until the allowed range is achieved. If there is evidence of ponding water, remove and replace all mulch. Remove any accumulated silt that may also be clogging the filter media. Do not overfill unit with mulch; for inlet units, mulch should not exceed bottom of inlet throat, and for roof units, mulch should not impede bypass piping or splash blocks.					
Amount of Mulch to be Added or Replaced:					
Type of Mulch to be Added or Replaced:					
Date Mulch Added or Replaced:	<u>9/14/2020</u>				
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 facing the throat of the inlet.					
Plant Information	#1	#2		#1	#2
Height Above Grate (ft.):	<u>7'</u>		Health of plant(s)	<u>Alive</u> / Dead	Alive / Dead
Stem Diameter/Caliper (in.):	<u>1.25"</u>		Damage to plant(s)?	Y / <u>N</u>	Y / N
Width at Widest Point (ft.):	<u>7'</u>		Plant(s) replaced?	Y / <u>N</u>	Y / N



Filtrerra BMPs

Inspection & Maintenance Checklist

Inspector Name: <u>Reid Walsh</u>		Type: <u>Inlet</u> / Roof		Size: <u>6x8</u>	
BMP ID #: <u>Unit 8</u>		Date/Time: <u>9/14/2020</u>			
Component	(Circle Y/N)		Comments		
Initial Observations					
Standing Water?	Y	<u>N</u>			
Damage to Box Structure?	Y	<u>N</u>			
Damage to Grate?	Y	<u>N</u>			
Is Bypass Clear?	<u>Y</u>	N			
Waste					
Silt/Clay?	Y	<u>N</u>			
Cups/Bags/Trash?	Y	<u>N</u>			
Leaves?	Y	<u>N</u>			
Other?	Y	<u>N</u>			
Erosion Control					
Netting in Need of Replacement?	Y	N	<u>NA</u>		
Stones in Need of Replacement?	Y	<u>N</u>	NA		
Mulch					
Depth from Top of Slab to Surface of Mulch	Inlet Filterra	Roof Filterra	Comments		
Measured (in.):	<u>16"</u>				
Allowed range (in.):	16" - 18"	23" - 25"			
Notes: If measured depth exceeds the allowed range, add mulch until the allowed range is achieved. If there is evidence of ponding water, remove and replace all mulch. Remove any accumulated silt that may also be clogging the filter media. Do not overfill unit with mulch; for inlet units, mulch should not exceed bottom of inlet throat, and for roof units, mulch should not impede bypass piping or splash blocks.					
Amount of Mulch to be Added or Replaced:					
Type of Mulch to be Added or Replaced:					
Date Mulch Added or Replaced:		<u>9/14/2020</u>			
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 facing the throat of the inlet.					
Plant Information	#1	#2		#1	#2
Height Above Grate (ft.):	<u>10'</u>		Health of plant(s)	<u>Alive</u> / Dead	Alive / Dead
Stem Diameter/Caliper (in.):	<u>2"</u>		Damage to plant(s)?	<u>Y</u> / N	Y / N
Width at Widest Point (ft.):	<u>12.5'</u>		Plant(s) replaced?	Y / <u>N</u>	Y / N



BMP ID #:	Date/Time:
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Notes:

This tree has begun to overgrow the grate and therefore it is difficult to access this unit in order to perform maintenance. This tree will likely be replaced during the next maintenance visit.

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

9/16/2020

Date

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

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

Signature of Inspector

Date

Next inspection date: _____



Filterra BMPs

Inspection & Maintenance Checklist

Inspector Name: <u>Reid Walsh</u>		Type: <u>Inlet</u> / Roof		Size: <u>6x8</u>	
BMP ID #: <u>Unit 9</u>		Date/Time: <u>9/14/2020</u>			
Component	(Circle Y/N)		Comments		
Initial Observations					
Standing Water?	Y	<u>N</u>			
Damage to Box Structure?	Y	<u>N</u>			
Damage to Grate?	Y	<u>N</u>			
Is Bypass Clear?	<u>Y</u>	N			
Waste					
Silt/Clay?	Y	<u>N</u>			
Cups/Bags/Trash?	Y	<u>N</u>			
Leaves?	Y	<u>N</u>			
Other?	Y	<u>N</u>			
Erosion Control					
Netting in Need of Replacement?	Y	N	<u>NA</u>		
Stones in Need of Replacement?	Y	<u>N</u>	NA		
Mulch					
Depth from Top of Slab to Surface of Mulch	Inlet Filterra	Roof Filterra	Comments		
Measured (in.):	<u>16"</u>				
Allowed range (in.):	16" - 18"	23" - 25"			
Notes: If measured depth exceeds the allowed range, add mulch until the allowed range is achieved. If there is evidence of ponding water, remove and replace all mulch. Remove any accumulated silt that may also be clogging the filter media. Do not overfill unit with mulch; for inlet units, mulch should not exceed bottom of inlet throat, and for roof units, mulch should not impede bypass piping or splash blocks.					
Amount of Mulch to be Added or Replaced:					
Type of Mulch to be Added or Replaced:					
Date Mulch Added or Replaced:		<u>9/14/2020</u>			
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 facing the throat of the inlet.					
Plant Information	#1	#2	#1	#2	
Height Above Grate (ft.):	<u>9'</u>		Health of plant(s)	<u>Alive</u> / Dead	Alive / Dead
Stem Diameter/Caliper (in.):	<u>4"</u>		Damage to plant(s)?	Y / <u>N</u>	Y / N
Width at Widest Point (ft.):	<u>8.5'</u>		Plant(s) replaced?	Y / <u>N</u>	Y / N



BMP ID #:

Date/Time:

Notes:

This Filterra unit is functioning as it was initially designed. Continue to perform routine maintenance on this unit to help improve the functionality and longevity of this system.

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

9/16/2020

Date

If maintenance is required, provide a time frame for maintenance completion: _____

Upon maintenance completion, re-inspect and certify the following:

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

Signature of Inspector

Date

Next inspection date: _____



Filterra BMPs

Inspection & Maintenance Checklist

Inspector Name: <u>Reid Walsh</u>		Type: <u>Inlet</u> / Roof		Size: <u>7x13</u>	
BMP ID #: <u>Unit 10</u>		Date/Time: <u>9/14/2020</u>			
Component	(Circle Y/N)		Comments		
Initial Observations					
Standing Water?	Y	<u>N</u>			
Damage to Box Structure?	Y	<u>N</u>			
Damage to Grate?	Y	<u>N</u>			
Is Bypass Clear?	<u>Y</u>	N			
Waste					
Silt/Clay?	Y	<u>N</u>			
Cups/Bags/Trash?	Y	<u>N</u>			
Leaves?	Y	<u>N</u>			
Other?	Y	<u>N</u>			
Erosion Control					
Netting in Need of Replacement?	Y	N	<u>NA</u>		
Stones in Need of Replacement?	Y	<u>N</u>	NA		
Mulch					
Depth from Top of Slab to Surface of Mulch	Inlet Filterra	Roof Filterra	Comments		
Measured (in.):	<u>16"</u>				
Allowed range (in.):	16" - 18"	23" - 25"			
Notes: If measured depth exceeds the allowed range, add mulch until the allowed range is achieved. If there is evidence of ponding water, remove and replace all mulch. Remove any accumulated silt that may also be clogging the filter media. Do not overfill unit with mulch; for inlet units, mulch should not exceed bottom of inlet throat, and for roof units, mulch should not impede bypass piping or splash blocks.					
Amount of Mulch to be Added or Replaced:					
Type of Mulch to be Added or Replaced:					
Date Mulch Added or Replaced: <u>9/14/2020</u>					
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 facing the throat of the inlet.					
Plant Information	#1	#2		#1	#2
Height Above Grate (ft.):	<u>11'</u>	<u>5'</u>	Health of plant(s)	<u>Alive</u> / Dead	Alive / <u>Dead</u>
Stem Diameter/Caliper (in.):	<u>3"</u>	<u>1"</u>	Damage to plant(s)?	Y / <u>N</u>	<u>Y</u> / N
Width at Widest Point (ft.):	<u>10'</u>	<u>4'</u>	Plant(s) replaced?	Y / <u>N</u>	Y / <u>N</u>



BMP ID #:	Date/Time:
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Notes:

This Filterra unit is performing and functioning in good condition. Continue performing routine maintenance on this unit. The right tree on this unit to be replaced upon completion of next maintenance.

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."


 _____ 9/16/2020
 Signature of Inspector Date

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

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

 Signature of Inspector Date

Next inspection date: _____



Filterra BMPs
Inspection & Maintenance Checklist

Inspector Name: <u>Reid Walsh</u>		Type: <u>Inlet</u> / Roof		Size: <u>4x12</u>	
BMP ID #: <u>Unit 11</u>		Date/Time: <u>9/14/2020</u>			
Component	(Circle Y/N)	Comments			
Initial Observations					
Standing Water?	Y <input type="radio"/> N <input checked="" type="radio"/>				
Damage to Box Structure?	Y <input type="radio"/> N <input checked="" type="radio"/>				
Damage to Grate?	Y <input type="radio"/> N <input checked="" type="radio"/>				
Is Bypass Clear?	<input checked="" type="radio"/> Y <input type="radio"/> N				
Waste					
Silt/Clay?	Y <input type="radio"/> N <input checked="" type="radio"/>				
Cups/Bags/Trash?	Y <input type="radio"/> N <input checked="" type="radio"/>				
Leaves?	Y <input type="radio"/> N <input checked="" type="radio"/>				
Other?	Y <input type="radio"/> N <input type="radio"/>				
Erosion Control					
Netting in Need of Replacement?	Y <input type="radio"/> N <input type="radio"/> NA <input checked="" type="radio"/>				
Stones in Need of Replacement?	Y <input type="radio"/> N <input checked="" type="radio"/> NA				
Mulch					
Depth from Top of Slab to Surface of Mulch	Inlet Filterra	Roof Filterra	Comments		
Measured (in.):	<u>17"</u>				
Allowed range (in.):	<u>16" - 18"</u>	<u>23" - 25"</u>			
Notes: If measured depth exceeds the allowed range, add mulch until the allowed range is achieved. If there is evidence of ponding water, remove and replace all mulch. Remove any accumulated silt that may also be clogging the filter media. Do not overfill unit with mulch; for inlet units, mulch should not exceed bottom of inlet throat, and for roof units, mulch should not impede bypass piping or splash blocks.					
Amount of Mulch to be Added or Replaced:					
Type of Mulch to be Added or Replaced:					
Date Mulch Added or Replaced:	<u>9/14/2020</u>				
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 facing the throat of the inlet.					
Plant Information	#1	#2		#1	#2
Height Above Grate (ft.):	<u>8.5'</u>	<u>10'</u>	Health of plant(s)	<u>Alive</u> / Dead	<u>Alive</u> / Dead
Stem Diameter/Caliper (in.):	<u>2"</u>	<u>3"</u>	Damage to plant(s)?	Y / <input checked="" type="radio"/> N	Y / <input checked="" type="radio"/> N
Width at Widest Point (ft.):	<u>12'</u>	<u>14'</u>	Plant(s) replaced?	Y / <input checked="" type="radio"/> N	Y / <input checked="" type="radio"/> N



BMP ID #:	Date/Time:
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Notes:
 This Filterra unit is functioning in good order and should continue to receive routine maintenance to ensure that

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."
 _____ 9/14/2020
 Signature of Inspector Date

If maintenance is required, provide a time frame for maintenance completion: _____
 Upon maintenance completion, re-inspect and certify the following:
 "I certify that all recommended maintenance is complete and no additional action is necessary at this time."

 Signature of Inspector Date

Next inspection date: _____



BMP ID #:	Date/Time:
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Notes:

This Filterra unit was functioning as designed during the time of inspection. Continue performing routine maintenance.

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

 9/16/2020
 Date

If maintenance is required, provide a time frame for maintenance completion: _____

Upon maintenance completion, re-inspect and certify the following:

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

 Signature of Inspector

 Date

Next inspection date: _____



Filterra BMPs

Inspection & Maintenance Checklist

Inspector Name: <u>Reid Walsh</u>		Type: <u>Inlet</u> / Roof		Size: <u>4x6</u>	
BMP ID #: <u>Unit 13</u>		Date/Time: <u>9/17/2020</u>			
Component	(Circle Y/N)		Comments		
Initial Observations					
Standing Water?	Y	<u>N</u>			
Damage to Box Structure?	Y	<u>N</u>			
Damage to Grate?	Y	<u>N</u>			
Is Bypass Clear?	<u>Y</u>	N			
Waste					
Silt/Clay?	Y	<u>N</u>			
Cups/Bags/Trash?	Y	<u>N</u>			
Leaves?	Y	<u>N</u>			
Other?	Y	<u>N</u>			
Erosion Control					
Netting in Need of Replacement?	Y	N	<u>NA</u>		
Stones in Need of Replacement?	Y	<u>N</u>	NA		
Mulch					
Depth from Top of Slab to Surface of Mulch	Inlet Filterra	Roof Filterra	Comments		
Measured (in.):	<u>16"</u>				
Allowed range (in.):	16" - 18"	23" - 25"			
Notes: If measured depth exceeds the allowed range, add mulch until the allowed range is achieved. If there is evidence of ponding water, remove and replace all mulch. Remove any accumulated silt that may also be clogging the filter media. Do not overfill unit with mulch; for inlet units, mulch should not exceed bottom of inlet throat, and for roof units, mulch should not impede bypass piping or splash blocks.					
Amount of Mulch to be Added or Replaced:					
Type of Mulch to be Added or Replaced:					
Date Mulch Added or Replaced:	<u>9/14/2020</u>				
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 facing the throat of the inlet.					
Plant Information	#1	#2		#1	#2
Height Above Grate (ft.):	<u>11'</u>		Health of plant(s)	<u>Alive</u> / Dead	Alive / Dead
Stem Diameter/Caliper (in.):	<u>6"</u>		Damage to plant(s)?	Y / <u>N</u>	Y / N
Width at Widest Point (ft.):	<u>11'</u>		Plant(s) replaced?	Y / <u>N</u>	Y / N



BMP ID #:	Date/Time:
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Notes:
 The Filterra unit is being maintained and is in good condition.
 Continue routine maintenance to ensure functionality of the system.

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."
 _____ 9/14/2020
 Signature of Inspector Date

If maintenance is required, provide a time frame for maintenance completion: _____
 Upon maintenance completion, re-inspect and certify the following:
 "I certify that all recommended maintenance is complete and no additional action is necessary at this time."

 Signature of Inspector Date

Next inspection date: _____



Filterra BMPs

Inspection & Maintenance Checklist

Inspector Name: <u>Reid Walsh</u>		Type: <u>Inlet</u> / Roof		Size: <u>6 x 12</u>	
BMP ID #: <u>Unit 41</u>		Date/Time: <u>9/14/2020</u>			
Component	(Circle Y/N)		Comments		
Initial Observations					
Standing Water?	Y	<u>N</u>			
Damage to Box Structure?	Y	<u>N</u>			
Damage to Grate?	Y	<u>N</u>			
Is Bypass Clear?	<u>Y</u>	N			
Waste					
Silt/Clay?	Y	<u>N</u>			
Cups/Bags/Trash?	Y	<u>N</u>			
Leaves?	Y	<u>N</u>			
Other?	Y	<u>N</u>			
Erosion Control					
Netting in Need of Replacement?	Y	N	<u>NA</u>		
Stones in Need of Replacement?	Y	<u>N</u>	NA		
Mulch					
Depth from Top of Slab to Surface of Mulch	Inlet Filterra	Roof Filterra	Comments		
Measured (in.):	<u>17"</u>				
Allowed range (in.):	16" - 18"	23" - 25"			
Notes: If measured depth exceeds the allowed range, add mulch until the allowed range is achieved. If there is evidence of ponding water, remove and replace all mulch. Remove any accumulated silt that may also be clogging the filter media. Do not overfill unit with mulch; for inlet units, mulch should not exceed bottom of inlet throat, and for roof units, mulch should not impede bypass piping or splash blocks.					
Amount of Mulch to be Added or Replaced:					
Type of Mulch to be Added or Replaced:					
Date Mulch Added or Replaced: <u>9/14/2020</u>					
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 facing the throat of the inlet.					
Plant Information	#1	#2		#1	#2
Height Above Grate (ft.):	<u>6'</u>	<u>6.5'</u>	Health of plant(s)	<u>Alive</u> / Dead	<u>Alive</u> / Dead
Stem Diameter/Caliper (in.):	<u>3"</u>	<u>3.5"</u>	Damage to plant(s)?	Y / <u>N</u>	Y / <u>N</u>
Width at Widest Point (ft.):	<u>5.5'</u>	<u>6'</u>	Plant(s) replaced?	Y / <u>N</u>	Y / <u>N</u>



BMP ID #:

Date/Time:


Notes:

This facility appears to be functioning in good condition at the time of inspection. Continue routine maintenance.

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."

 9/16/2020
Signature of Inspector Date

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

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

Signature of Inspector Date

Next inspection date: _____



Filtterra BMPs
Inspection & Maintenance Checklist

Inspector Name: <u>Reid Walsh</u>		Type: <u>Inlet</u> / Roof	Size: <u>6x10</u>		
BMP ID #: <u>Unit 42</u>		Date/Time:			
Component	(Circle Y/N)	Comments			
Initial Observations					
Standing Water?	Y <u>N</u>				
Damage to Box Structure?	Y <u>N</u>				
Damage to Grate?	<u>Y</u> N	<u>half of the grate is missing, and should be replaced</u>			
Is Bypass Clear?	<u>Y</u> N				
Waste					
Silt/Clay?	Y <u>N</u>				
Cups/Bags/Trash?	Y <u>N</u>				
Leaves?	Y <u>N</u>				
Other?	Y <u>N</u>				
Erosion Control					
Netting in Need of Replacement?	Y N <u>NA</u>				
Stones in Need of Replacement?	Y <u>N</u> NA				
Mulch					
Depth from Top of Slab to Surface of Mulch	Inlet Filtterra	Roof Filtterra	Comments		
Measured (in.):	<u>17"</u>				
Allowed range (in.):	16" - 18"	23" - 25"			
Notes: If measured depth exceeds the allowed range, add mulch until the allowed range is achieved. If there is evidence of ponding water, remove and replace all mulch. Remove any accumulated silt that may also be clogging the filter media. Do not overfill unit with mulch; for inlet units, mulch should not exceed bottom of inlet throat, and for roof units, mulch should not impede bypass piping or splash blocks.					
Amount of Mulch to be Added or Replaced:					
Type of Mulch to be Added or Replaced:					
Date Mulch Added or Replaced:	<u>9/14/2020</u>				
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 facing the throat of the inlet.					
Plant Information	#1	#2		#1	#2
Height Above Grate (ft.):	<u>7'</u>		Health of plant(s)	<u>Alive</u> Dead	Alive / Dead
Stem Diameter/Caliper (in.):	<u>4"</u>		Damage to plant(s)?	Y / <u>N</u>	Y / N
Width at Widest Point (ft.):	<u>5'</u>		Plant(s) replaced?	Y / <u>N</u>	Y / N



BMP ID #:	Date/Time:
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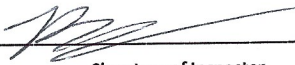
Notes:

This Filterra unit is performing as it should. Continue performing routine maintenance as needed.

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

9/16/2020

 Date

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

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

 Signature of Inspector

 Date

Next inspection date: _____



Filtterra BMPs

Inspection & Maintenance Checklist

Inspector Name: <u>Reid Walsh</u>		Type: <u>Inlet</u> / Roof		Size: <u>4x6</u>	
BMP ID #: <u>Unit 43</u>		Date/Time:			
Component	(Circle Y/N)		Comments		
Initial Observations					
Standing Water?	Y	<u>N</u>			
Damage to Box Structure?	Y	<u>N</u>			
Damage to Grate?	Y	<u>N</u>			
Is Bypass Clear?	<u>Y</u>	N			
Waste					
Silt/Clay?	Y	<u>N</u>			
Cups/Bags/Trash?	Y	<u>N</u>			
Leaves?	Y	<u>N</u>			
Other?	Y	<u>N</u>			
Erosion Control					
Netting in Need of Replacement?	Y	N	<u>NA</u>		
Stones in Need of Replacement?	Y	<u>N</u>	NA		
Mulch					
Depth from Top of Slab to Surface of Mulch	Inlet Filtterra	Roof Filtterra	Comments		
Measured (in.):	<u>16"</u>				
Allowed range (in.):	16" - 18"	23" - 25"			
Notes: If measured depth exceeds the allowed range, add mulch until the allowed range is achieved. If there is evidence of ponding water, remove and replace all mulch. Remove any accumulated silt that may also be clogging the filter media. Do not overfill unit with mulch; for inlet units, mulch should not exceed bottom of inlet throat, and for roof units, mulch should not impede bypass piping or splash blocks.					
Amount of Mulch to be Added or Replaced:					
Type of Mulch to be Added or Replaced:					
Date Mulch Added or Replaced:		<u>9/14/2020</u>			
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 facing the throat of the inlet.					
Plant Information	#1	#2		#1	#2
Height Above Grate (ft.):	<u>6'</u>		Health of plant(s)	<u>Alive</u> Dead	Alive / Dead
Stem Diameter/Caliper (in.):	<u>5"</u>		Damage to plant(s)?	Y / <u>N</u>	Y / N
Width at Widest Point (ft.):	<u>5'</u>		Plant(s) replaced?	Y / <u>N</u>	Y / N



BMP ID #:	Date/Time:
-----------	------------


Notes:

This Filterra appeared to be functioning in good condition during the time of inspection. Continue performing routine maintenance

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."

 9/16/2020
Signature of Inspector Date

If maintenance is required, provide a time frame for maintenance completion: _____

Upon maintenance completion, re-inspect and certify the following:

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

Signature of Inspector Date

Next inspection date: _____



STORMWATER MANAGEMENT

P.O. Box 1301
Midlothian VA 23113
(804) 302-5151,
Info@exactstorm.com
06/21/2021

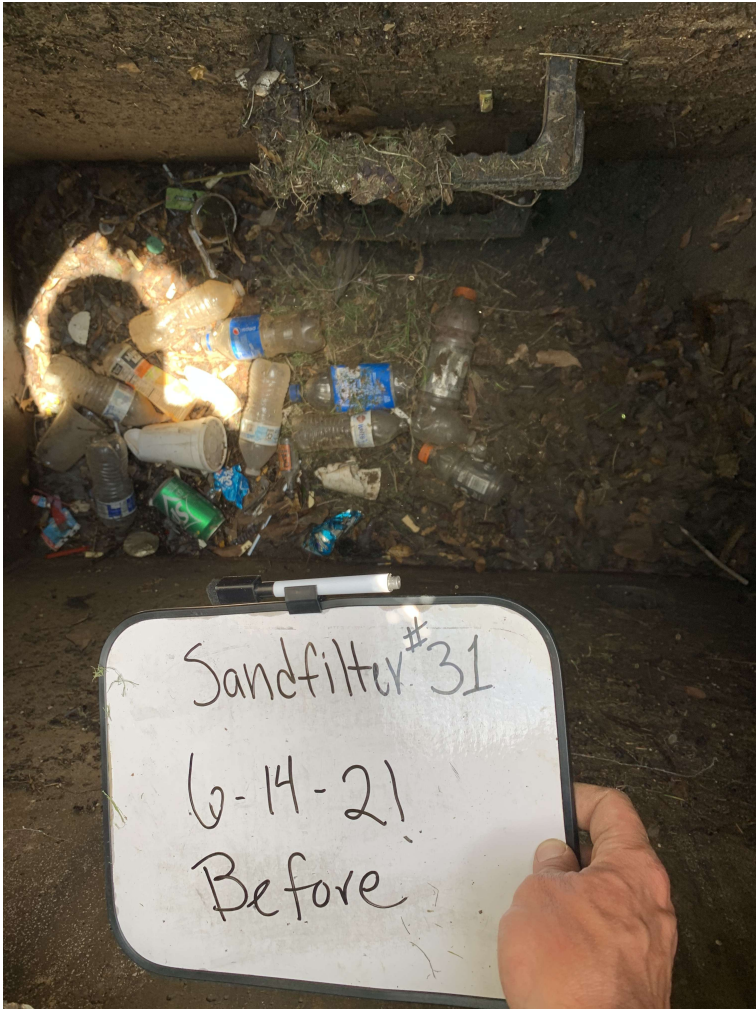
CUSTOMER	SERVICE LOCATION
Timmons Group Sheila Reeves 1001 Boulders Parkway, Suite 300 Richmond VA 23225 (804) 200-6544	VSU 1 Hayden Drive Petersburg VA 23806

JOB DETAILS	<p>Scope of Work: Corrective Maintenance</p> <p>#30 Retention Basin - erosion stabilization and sediment removal (looked back at notes from 2019 and it said this was going to be save for another project done by MT Carter at some point)</p> <p>#31 Delaware Sand Filter - sediment removal and evaluate media</p> <ol style="list-style-type: none">1. Perform confined space entry to remove up to (3) 800 gal vac trailer loads of accumulated material.2. Evaluate if any more material needs to be removed at this time. <p>#40 UGD -</p> <ol style="list-style-type: none">1. Remove trash and floatables from SE side of system.2. Remove blockage at low flow orifice. <p>#42 Filterra</p> <ol style="list-style-type: none">1. Replace broken 4'x2' grate. <p>#46 Extended Detention Pond - excavate sediment (evaluated site and don't see the need to excavate 2-3' of sediment from around the outlet control structure). Cut back cattails.</p> <p>#47 Contech Storm Filter</p> <ol style="list-style-type: none">1. Perform confined space entry per OSHA requirements in order to remove up to (2) 800 gal vac trailer loads of sediment, trash and debris from units.2. Evaluate cartridge edit to determine when cartridges may need to be replaced.3. Remove sediment accumulation from sediment chamber of system. <p>#48 Contech Storm Filter</p> <ol style="list-style-type: none">1. Perform confined space entry per OSHA requirements in order to remove up to (1) 800 gal vac trailer load of sediment, trash and debris from units.2. Evaluate cartridge edit to determine when cartridges may need to be replaced.3. Remove sediment accumulation from sediment chamber of system. <p>#49 Contech Storm Filter</p> <ol style="list-style-type: none">1. Perform confined space entry per OSHA requirements in order to remove up to (2) 800 gal vac trailer loads of sediment, trash and debris from units.2. Evaluate cartridge edit to determine when cartridges may need to be replaced.3. Remove sediment accumulation from sediment chamber of system.
-------------	---

COMPLETION NOTES	Completed corrective maintenance for following BMPs.
------------------	--

BMP 31 - removed sediment and trash
BMP 40 - removed trash and floatables from system, removed blockage
BMP 42 - replaced broken grate
BMP 46 - cut back cattails
BMP 47 - removed sediment, trash, and debris
BMP 48 - removed sediment, trash, and debris
BMP 49 - removed sediment, trash, and debris

PICTURES



BMP 31 Sandfilter Before



BMP 31 Sandfilter After



BMP 40 UGD Before



BMP 40 UGD Before



BMP 40 UGD After



BMP 40 UGD After



BMP 42 Grate replaced



BMP 46 cut back cattails



BMP 47 Stormfilter Before



BMP 47 Stormfilter Before



BMP 47 Stormfilter Before



BMP 47 Stormfilter After



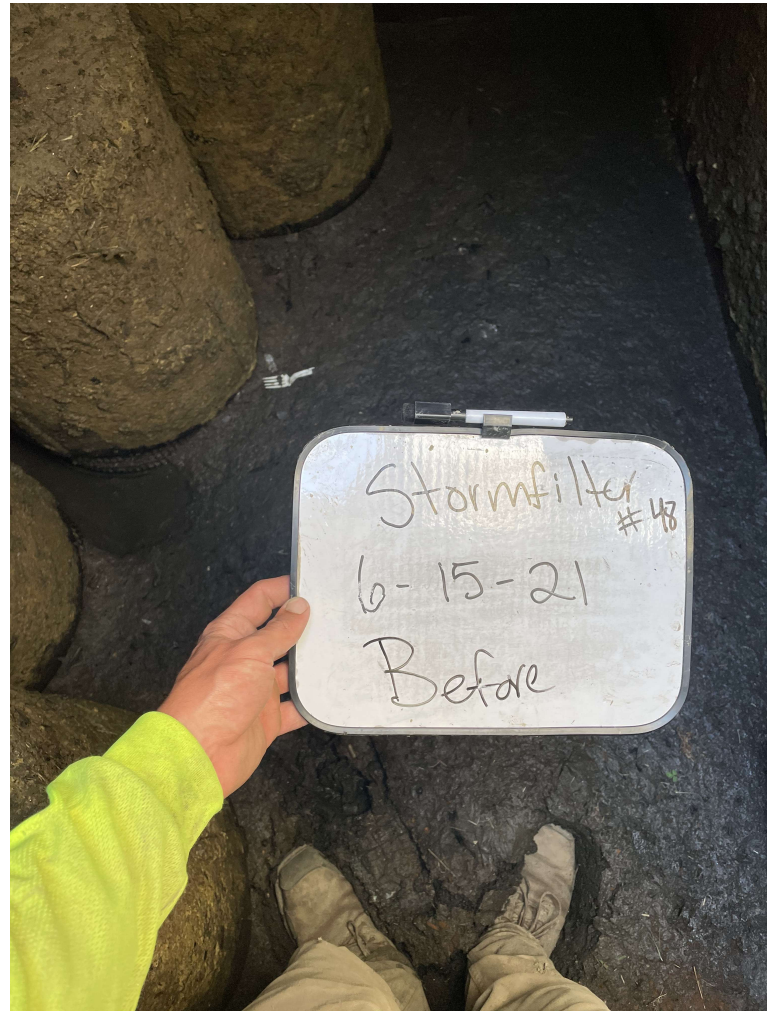
BMP 47 Stormfilter After



BMP 48 Stormfilter Before



BMP 48 Stormfilter Before



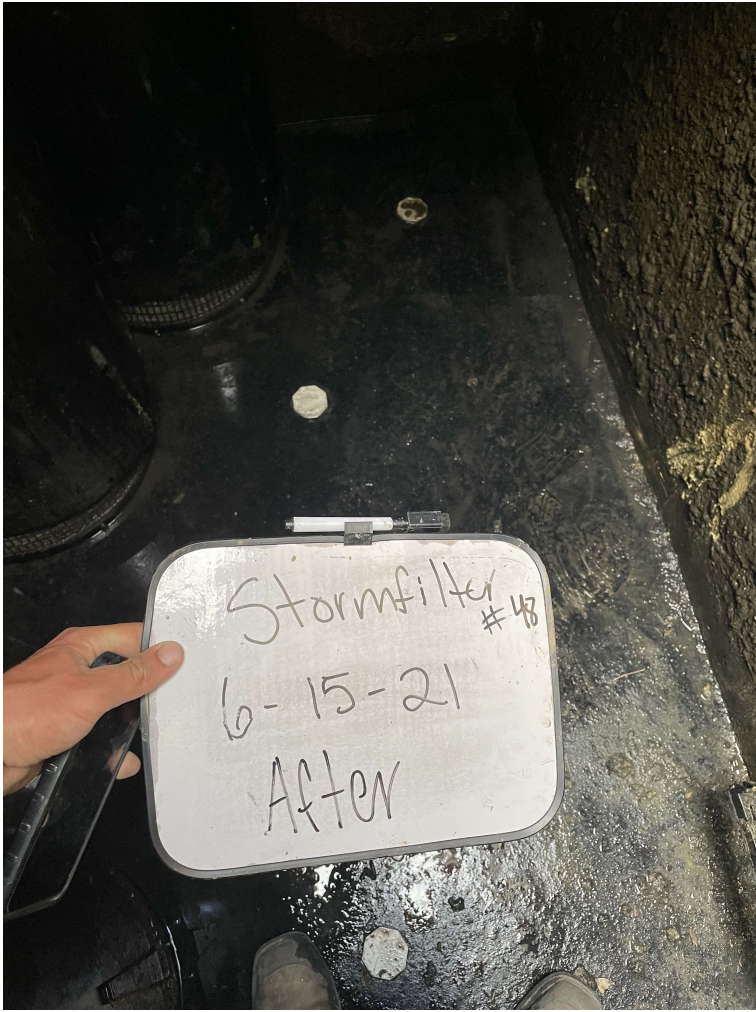
BMP 48 Stormfilter Before



BMP 48 Stormfilter After



BMP 48 Stormfilter After



BMP 48 Stormfilter After



BMP 49 Stormfilter Before



BMP 49 Stormfilter Before



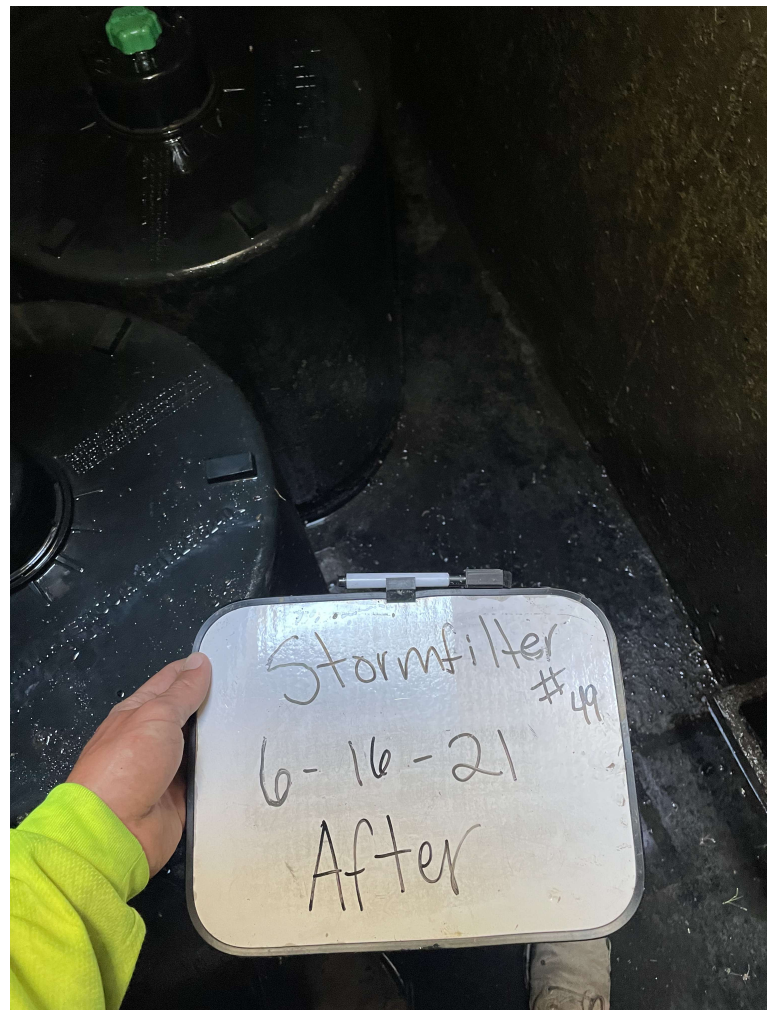
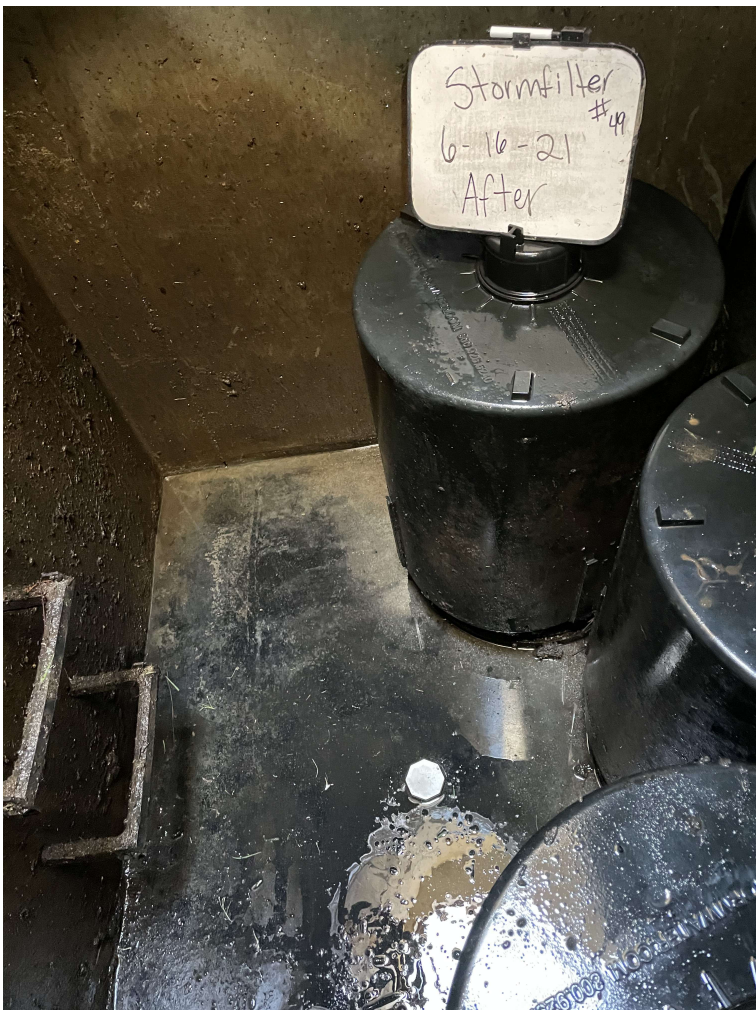
B49 Stormfilter Before



BMP 49 Stormfilter After



BMP 49 Stormfilter After



Inspector Name: Reid Walsh				
Type of BMP: Inlet / Roof BMP 1				Date: 6/16/2021
Component	Yes	No	Comments	
Initial Observations				
Standing water?		X		
Damage to box structure?		X		
Damage to grate?		X		
Is bypass clear?	X			
Waste				
Silt/clay?	X			
Cups/bags/trash?	X			
Leaves?	X			
Other?	X			
Erosion Control				
Component	Yes	No	N/A	Comments
Netting in need of replacement?			X	

Component	Yes	No	N/A	Comments
Stones in need of replacement?		X		

Mulch

Depth from top of slab to surface mulch	Inlet Filtterra	Roof Filtterra	Comments
Measured (inches)			
Allowed range (inches)			

Notes: This filtterra unit appeared to be functioning properly during the time of inspection.

Amount of mulch to be added or replaced	3"
Type of mulch to be added or replaced	Hardwood Double Shredded
Date mulch added or replaced	6/16/2021

Plantings

1 is plant to the left when facing the inlet and 2 in the plane to the right when facing the inlet

Plant information	1	2		1	2
Height above grate	9'		Health of plant(s)	Alive / Dead	Alive / Dead
Stem diameter/caliper	3"		Damage to plant(s)	Y / N	Y / N
Width at widest point	9'		Plant(s) replaced	Y / N	Y / N

Notes:



Maintenance was performed on this filterra unit on 6/16/2021. At the time of the inspection/maintenance visit there did not appear to be any other necessary repairs to be completed at this time. Continue performing routine inspection/maintenance twice per year to ensure the overall functionality and longevity of this system.

Certification:

If no maintenance is required, certify the following:

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

Signature of Inspector

Date



__6/16/2021__

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: _____

Inspector Name: Reid Walsh				
Type of BMP: Inlet / Roof BMP 2				Date: 6/16/2021
Component	Yes	No	Comments	
Initial Observations				
Standing water?		X		
Damage to box structure?		X		
Damage to grate?		X		
Is bypass clear?	X			
Waste				
Silt/clay?	X			
Cups/bags/trash?	X			
Leaves?	X			
Other?	X			
Erosion Control				
Component	Yes	No	N/A	Comments
Netting in need of replacement?			X	

Component	Yes	No	N/A	Comments
Stones in need of replacement?		X		

Mulch

Depth from top of slab to surface mulch	Inlet Filtterra	Roof Filtterra	Comments
Measured (inches)			
Allowed range (inches)			

Notes: This filtterra unit appeared to be functioning properly during the time of inspection.

Amount of mulch to be added or replaced	3"
Type of mulch to be added or replaced	Hardwood Double Shredded
Date mulch added or replaced	6/16/2021

Plantings

1 is plant to the left when facing the inlet and 2 in the plane to the right when facing the inlet

Plant information	1	2		1	2
Height above grate	9'		Health of plant(s)	Alive / Dead	Alive / Dead
Stem diameter/caliper	3"		Damage to plant(s)	Y / N	Y / N
Width at widest point	10'		Plant(s) replaced	Y / N	Y / N

Notes:



Maintenance was performed on this filterra unit on 6/16/2021. At the time of the inspection/maintenance visit there did not appear to be any other necessary repairs to be completed at this time. Continue performing routine inspection/maintenance twice per year to ensure the overall functionality and longevity of this system.

Certification:

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

Signature of Inspector

Date



__6/16/2021__

If maintenance is required, provide a time frame for maintenance completion: _____

Upon maintenance completion, re-inspect and certify the following:

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Signature of Inspector

Date

Next inspection date: _____

Inspector Name: Reid Walsh				
Type of BMP: Inlet / Roof BMP 3				Date: 6/16/2021
Component	Yes	No	Comments	
Initial Observations				
Standing water?		X		
Damage to box structure?		X		
Damage to grate?		X		
Is bypass clear?	X			
Waste				
Silt/clay?	X			
Cups/bags/trash?	X			
Leaves?	X			
Other?	X			
Erosion Control				
Component	Yes	No	N/A	Comments
Netting in need of replacement?			X	

Component	Yes	No	N/A	Comments
Stones in need of replacement?		X		

Mulch

Depth from top of slab to surface mulch	Inlet Filtterra	Roof Filtterra	Comments
Measured (inches)			
Allowed range (inches)			

Notes: This filtterra unit appeared to be functioning properly during the time of inspection.

Amount of mulch to be added or replaced	3"
Type of mulch to be added or replaced	Hardwood Double Shredded
Date mulch added or replaced	6/16/2021

Plantings

1 is plant to the left when facing the inlet and 2 in the plane to the right when facing the inlet

Plant information	1	2		1	2
Height above grate	8'		Health of plant(s)	Alive / Dead	Alive / Dead
Stem diameter/caliper	2.5"		Damage to plant(s)	Y / N	Y / N
Width at widest point	9'		Plant(s) replaced	Y / N	Y / N

Notes:



Maintenance was performed on this filterra unit on 6/16/2021. At the time of the inspection/maintenance visit there did not appear to be any other necessary repairs to be completed at this time. Continue performing routine inspection/maintenance twice per year to ensure the overall functionality and longevity of this system.

Certification:

If no maintenance is required, certify the following:

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

Signature of Inspector

Date

[Handwritten Signature]

6/16/2021

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: _____

Inspector Name: Reid Walsh				
Type of BMP: Inlet / Roof BMP 4				Date: 6/16/2021
Component	Yes	No	Comments	
Initial Observations				
Standing water?		X		
Damage to box structure?		X		
Damage to grate?		X		
Is bypass clear?	X			
Waste				
Silt/clay?	X			
Cups/bags/trash?	X			
Leaves?	X			
Other?	X			
Erosion Control				
Component	Yes	No	N/A	Comments
Netting in need of replacement?			X	

Component	Yes	No	N/A	Comments
Stones in need of replacement?		X		

Mulch

Depth from top of slab to surface mulch	Inlet Filtterra	Roof Filtterra	Comments
Measured (inches)			
Allowed range (inches)			

Notes: This filtterra unit appeared to be functioning properly during the time of inspection.

Amount of mulch to be added or replaced	3"
Type of mulch to be added or replaced	Hardwood Double Shredded
Date mulch added or replaced	6/16/2021

Plantings

1 is plant to the left when facing the inlet and 2 in the plane to the right when facing the inlet

Plant information	1	2		1	2
Height above grate	9.25'		Health of plant(s)	Alive / Dead	Alive / Dead
Stem diameter/caliper	3"		Damage to plant(s)	Y / N	Y / N
Width at widest point	11'		Plant(s) replaced	Y / N	Y / N

Notes:



Maintenance was performed on this filterra unit on 6/16/2021. At the time of the inspection/maintenance visit there did not appear to be any other necessary repairs to be completed at this time. Continue performing routine inspection/maintenance twice per year to ensure the overall functionality and longevity of this system.

Certification:

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Signature of Inspector

Date



__6/16/2021__

If maintenance is required, provide a time frame for maintenance completion: _____

Upon maintenance completion, re-inspect and certify the following:

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Signature of Inspector

Date

Next inspection date: _____

Inspector Name: Reid Walsh				
Type of BMP: Inlet / Roof BMP 5				Date: 6/16/2021
Component	Yes	No	Comments	
Initial Observations				
Standing water?		X		
Damage to box structure?		X		
Damage to grate?		X		
Is bypass clear?	X			
Waste				
Silt/clay?	X			
Cups/bags/trash?	X			
Leaves?	X			
Other?	X			
Erosion Control				
Component	Yes	No	N/A	Comments
Netting in need of replacement?			X	

Component	Yes	No	N/A	Comments
Stones in need of replacement?		X		

Mulch

Depth from top of slab to surface mulch	Inlet Filtterra	Roof Filtterra	Comments
Measured (inches)			
Allowed range (inches)			

Notes: This filtterra unit appeared to be functioning properly during the time of inspection.

Amount of mulch to be added or replaced	3"
Type of mulch to be added or replaced	Hardwood Double Shredded
Date mulch added or replaced	6/16/2021

Plantings

1 is plant to the left when facing the inlet and 2 in the plane to the right when facing the inlet

Plant information	1	2		1	2
Height above grate	10.5'		Health of plant(s)	Alive / Dead	Alive / Dead
Stem diameter/caliper	2.5"		Damage to plant(s)	Y / N	Y / N
Width at widest point	12'		Plant(s) replaced	Y / N	Y / N

Notes:



Maintenance was performed on this filterra unit on 6/16/2021. At the time of the inspection/maintenance visit there did not appear to be any other necessary repairs to be completed at this time. Continue performing routine inspection/maintenance twice per year to ensure the overall functionality and longevity of this system.

Certification:

If no maintenance is required, certify the following:

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

Signature of Inspector

Date



__6/16/2021__

If maintenance is required, provide a time frame for maintenance completion: _____

Upon maintenance completion, re-inspect and certify the following:

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Signature of Inspector

Date

Next inspection date: _____

Inspector Name: Reid Walsh				
Type of BMP: Inlet / Roof BMP 6				Date: 6/16/2021
Component	Yes	No	Comments	
Initial Observations				
Standing water?		X		
Damage to box structure?		X		
Damage to grate?		X		
Is bypass clear?	X			
Waste				
Silt/clay?	X			
Cups/bags/trash?	X			
Leaves?	X			
Other?	X			
Erosion Control				
Component	Yes	No	N/A	Comments
Netting in need of replacement?			X	

Component	Yes	No	N/A	Comments
Stones in need of replacement?		X		

Mulch

Depth from top of slab to surface mulch	Inlet Filtterra	Roof Filtterra	Comments
Measured (inches)			
Allowed range (inches)			

Notes: This filtterra unit appeared to be functioning properly during the time of inspection.

Amount of mulch to be added or replaced	3"
Type of mulch to be added or replaced	Hardwood Double Shredded
Date mulch added or replaced	6/16/2021

Plantings

1 is plant to the left when facing the inlet and 2 in the plane to the right when facing the inlet

Plant information	1	2		1	2
Height above grate	10.5'		Health of plant(s)	Alive / Dead	Alive / Dead
Stem diameter/caliper	2.5"		Damage to plant(s)	Y / N	Y / N
Width at widest point	12'		Plant(s) replaced	Y / N	Y / N

Notes:



Maintenance was performed on this filterra unit on 6/16/2021. At the time of the inspection/maintenance visit there did not appear to be any other necessary repairs to be completed at this time. Continue performing routine inspection/maintenance twice per year to ensure the overall functionality and longevity of this system.

Certification:

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

Signature of Inspector

Date



__6/16/2021__

If maintenance is required, provide a time frame for maintenance completion: _____

Upon maintenance completion, re-inspect and certify the following:

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Signature of Inspector

Date

Next inspection date: _____

Inspector Name: Reid Walsh				
Type of BMP: Inlet / Roof BMP 7				Date: 6/14/2021
Component	Yes	No	Comments	
Initial Observations				
Standing water?		X		
Damage to box structure?		X		
Damage to grate?		X		
Is bypass clear?	X			
Waste				
Silt/clay?	X			
Cups/bags/trash?	X			
Leaves?	X			
Other?	X			
Erosion Control				
Component	Yes	No	N/A	Comments
Netting in need of replacement?			X	

Component	Yes	No	N/A	Comments
Stones in need of replacement?		X		

Mulch

Depth from top of slab to surface mulch	Inlet Filtterra	Roof Filtterra	Comments
Measured (inches)	14"		
Allowed range (inches)	14-16"		

Notes: This unit is functioning per design. Continue performing routine inspections/maintenance to help ensure the overall functionality and longevity of this system.

Amount of mulch to be added or replaced	3"
Type of mulch to be added or replaced	Hardwood Double Shredded
Date mulch added or replaced	6/14/2021

Plantings

1 is plant to the left when facing the inlet and 2 in the plane to the right when facing the inlet

Plant information	1	2		1	2
Height above grate	5'		Health of plant(s)	Alive / Dead	Alive / Dead
Stem diameter/caliper	1.25"		Damage to plant(s)	Y / N	Y / N
Width at widest point	5'		Plant(s) replaced	Y / N	Y / N

Notes:



Maintenance was performed on this Filterra unit on 6/14/2021. At the time of the inspection/maintenance visit there did not appear to be any other necessary repairs to be completed at this time. Continue performing routine maintenance.

Certification:

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

Signature of Inspector

Date



__6/14/2021__

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: _____

Inspector Name: Reid Walsh				
Type of BMP: Inlet / Roof BMP 8				Date: 6/14/2021
Component	Yes	No	Comments	
Initial Observations				
Standing water?		X		
Damage to box structure?		X		
Damage to grate?		X		
Is bypass clear?	X			
Waste				
Silt/clay?	X			
Cups/bags/trash?	X			
Leaves?	X			
Other?	X			
Erosion Control				
Component	Yes	No	N/A	Comments
Netting in need of replacement?			X	

Component	Yes	No	N/A	Comments
Stones in need of replacement?		X		

Mulch

Depth from top of slab to surface mulch	Inlet Filterra	Roof Filterra	Comments
Measured (inches)	14"		
Allowed range (inches)	14-16"		

Notes: This unit is functioning per design. Continue performing routine inspections/maintenance to help ensure the overall functionality and longevity of this system.

Amount of mulch to be added or replaced	3"
Type of mulch to be added or replaced	Hardwood Double Shredded
Date mulch added or replaced	6/14/2021

Plantings

1 is plant to the left when facing the inlet and 2 in the plane to the right when facing the inlet

Plant information	1	2		1	2
Height above grate	7'		Health of plant(s)	Alive / Dead	Alive / Dead
Stem diameter/caliper	3"		Damage to plant(s)	Y / N	Y / N
Width at widest point	8'		Plant(s) replaced	Y / N	Y / N

Notes:



Maintenance was performed on this Filterra unit on 6/14/2021. At the time of the inspection/maintenance visit there did not appear to be any other necessary repairs to be completed at this time. Continue performing routine maintenance.

Certification:

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Signature of Inspector

Date



__6/14/2021__

If maintenance is required, provide a time frame for maintenance completion: _____

Upon maintenance completion, re-inspect and certify the following:

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Signature of Inspector

Date

Next inspection date: _____

Inspector Name: Reid Walsh				
Type of BMP: Inlet / Roof BMP 9				Date: 6/14/2021
Component	Yes	No	Comments	
Initial Observations				
Standing water?		X		
Damage to box structure?		X		
Damage to grate?		X		
Is bypass clear?	X			
Waste				
Silt/clay?	X			
Cups/bags/trash?	X			
Leaves?	X			
Other?	X			
Erosion Control				
Component	Yes	No	N/A	Comments
Netting in need of replacement?			X	

Component	Yes	No	N/A	Comments
Stones in need of replacement?		X		

Mulch

Depth from top of slab to surface mulch	Inlet Filtterra	Roof Filtterra	Comments
Measured (inches)	14"		
Allowed range (inches)	14-16"		

Notes: This unit is functioning per design. Continue performing routine inspections/maintenance to help ensure the overall functionality and longevity of this system.

Amount of mulch to be added or replaced	3"
Type of mulch to be added or replaced	Hardwood Double Shredded
Date mulch added or replaced	6/14/2021

Plantings

1 is plant to the left when facing the inlet and 2 in the plane to the right when facing the inlet

Plant information	1	2		1	2
Height above grate	6'		Health of plant(s)	Alive / Dead	Alive / Dead
Stem diameter/caliper	2.5"		Damage to plant(s)	Y / N	Y / N
Width at widest point	4'		Plant(s) replaced	Y / N	Y / N

Notes:



Maintenance was performed on this Filterra unit on 6/14/2021. At the time of the inspection/maintenance visit there did not appear to be any other necessary repairs to be completed at this time. Continue performing routine maintenance.

Certification:

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Signature of Inspector

Date



__6/14/2021__

If maintenance is required, provide a time frame for maintenance completion: _____

Upon maintenance completion, re-inspect and certify the following:

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Signature of Inspector

Date

Next inspection date: _____

Inspector Name: Reid Walsh				
Type of BMP: Inlet / Roof BMP 10				Date: 6/14/2021
Component	Yes	No	Comments	
Initial Observations				
Standing water?		X		
Damage to box structure?		X		
Damage to grate?		X		
Is bypass clear?	X			
Waste				
Silt/clay?	X			
Cups/bags/trash?	X			
Leaves?	X			
Other?	X			
Erosion Control				
Component	Yes	No	N/A	Comments
Netting in need of replacement?			X	

Component	Yes	No	N/A	Comments
Stones in need of replacement?		X		

Mulch

Depth from top of slab to surface mulch	Inlet Filterra	Roof Filterra	Comments
Measured (inches)	15"		
Allowed range (inches)	14-16"		

Notes: This unit is functioning per design. Continue performing routine inspections/maintenance to help ensure the overall functionality and longevity of this system.

Amount of mulch to be added or replaced	3"
Type of mulch to be added or replaced	Hardwood Double Shredded
Date mulch added or replaced	6/14/2021

Plantings

1 is plant to the left when facing the inlet and 2 in the plane to the right when facing the inlet

Plant information	1	2		1	2
Height above grate	11'	5'	Health of plant(s)	Alive / Dead	Alive / Dead
Stem diameter/caliper	3.5"	1"	Damage to plant(s)	Y / N	Y / N
Width at widest point	9'	3'	Plant(s) replaced	Y / N	Y / N

Notes:



Maintenance was performed on this Filtterra unit on 6/14/2021. At the time of the inspection/maintenance visit there did not appear to be any other necessary repairs to be completed at this time. Continue performing routine maintenance.

Certification:

If no maintenance is required, certify the following:

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

Signature of Inspector

Date



__6/14/2021__

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Signature of Inspector

Date

Next inspection date: _____

Inspector Name: Reid Walsh				
Type of BMP: Inlet / Roof BMP 11				Date: 6/14/2021
Component	Yes	No	Comments	
Initial Observations				
Standing water?		X		
Damage to box structure?		X		
Damage to grate?		X		
Is bypass clear?	X			
Waste				
Silt/clay?	X			
Cups/bags/trash?	X			
Leaves?	X			
Other?	X			
Erosion Control				
Component	Yes	No	N/A	Comments
Netting in need of replacement?			X	

Component	Yes	No	N/A	Comments
Stones in need of replacement?		X		

Mulch

Depth from top of slab to surface mulch	Inlet Filtterra	Roof Filtterra	Comments
Measured (inches)	15"		
Allowed range (inches)	14-16"		

Notes: This unit is functioning per design. Continue performing routine inspections/maintenance to help ensure the overall functionality and longevity of this system.

Amount of mulch to be added or replaced	3"
Type of mulch to be added or replaced	Hardwood Double Shredded
Date mulch added or replaced	6/14/2021

Plantings

1 is plant to the left when facing the inlet and 2 in the plane to the right when facing the inlet

Plant information	1	2		1	2
Height above grate	10'	10'	Health of plant(s)	Alive / Dead	Alive / Dead
Stem diameter/caliper	2"	3"	Damage to plant(s)	Y / N	Y / N
Width at widest point	9'	10'	Plant(s) replaced	Y / N	Y / N

Notes:



Maintenance was performed on this filtterra unit on 6/14/2021. At the time of the inspection/maintenance visit there did not appear to be any other necessary repairs to be completed at this time. Continue performing routine maintenance.

Certification:

If no maintenance is required, certify the following:

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

Signature of Inspector

Date



__6/14/2021__

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: _____

Inspector Name: Reid Walsh				
Type of BMP: Inlet / Roof BMP 12				Date: 6/14/2021
Component	Yes	No	Comments	
Initial Observations				
Standing water?		X		
Damage to box structure?		X		
Damage to grate?		X		
Is bypass clear?	X			
Waste				
Silt/clay?	X			
Cups/bags/trash?	X			
Leaves?	X			
Other?	X			
Erosion Control				
Component	Yes	No	N/A	Comments
Netting in need of replacement?			X	

Component	Yes	No	N/A	Comments
Stones in need of replacement?		X		

Mulch

Depth from top of slab to surface mulch	Inlet Filtterra	Roof Filtterra	Comments
Measured (inches)	15"		
Allowed range (inches)	14-16"		

Notes: This unit is functioning per design. Continue performing routine inspections/maintenance to help ensure the overall functionality and longevity of this system.

Amount of mulch to be added or replaced	3"
Type of mulch to be added or replaced	Hardwood Double Shredded
Date mulch added or replaced	6/14/2021

Plantings

1 is plant to the left when facing the inlet and 2 in the plane to the right when facing the inlet

Plant information	1	2		1	2
Height above grate	6.25'		Health of plant(s)	Alive / Dead	Alive / Dead
Stem diameter/caliper	3"		Damage to plant(s)	Y / N	Y / N
Width at widest point	4.5'		Plant(s) replaced	Y / N	Y / N

Notes:

Maintenance was performed on this Filterra unit on 6/14/2021. At the time of the inspection/maintenance visit there did not appear to be any other necessary repairs to be completed at this time. Continue performing routine maintenance.

Certification:

If no maintenance is required, certify the following:

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

Signature of Inspector

Date



__6/14/2021__

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: _____

Inspector Name: Reid Walsh				
Type of BMP: Inlet / Roof BMP 13				Date: 6/14/2021
Component	Yes	No	Comments	
Initial Observations				
Standing water?		X		
Damage to box structure?		X		
Damage to grate?		X		
Is bypass clear?	X			
Waste				
Silt/clay?	X			
Cups/bags/trash?	X			
Leaves?	X			
Other?	X			
Erosion Control				
Component	Yes	No	N/A	Comments
Netting in need of replacement?			X	

Component	Yes	No	N/A	Comments
Stones in need of replacement?		X		

Mulch

Depth from top of slab to surface mulch	Inlet Filterra	Roof Filterra	Comments
Measured (inches)	15"		
Allowed range (inches)	14-16"		

Notes: This unit is functioning per design. Continue performing routine inspections/maintenance to help ensure the overall functionality and longevity of this system.

Amount of mulch to be added or replaced	3"
Type of mulch to be added or replaced	Hardwood Double Shredded
Date mulch added or replaced	6/14/2021

Plantings

1 is plant to the left when facing the inlet and 2 in the plane to the right when facing the inlet

Plant information	1	2		1	2
Height above grate	8'		Health of plant(s)	Alive / Dead	Alive / Dead
Stem diameter/caliper	4"		Damage to plant(s)	Y / N	Y / N
Width at widest point	10'		Plant(s) replaced	Y / N	Y / N

Notes:



Maintenance was performed on this Filterra unit on 6/14/2021. At the time of the inspection/maintenance visit there did not appear to be any other necessary repairs to be completed at this time. Continue performing routine maintenance.

Certification:

If no maintenance is required, certify the following:

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

Signature of Inspector

Date



__6/14/2021__

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: _____



Inspector Name: Reid Walsh			
Type of BMP: BMP 15			Date: 6/16/2021
Inspection Finding	Y/N	Maintenance Required? Y/N	Comments
Internal Storage Area			
Sediment Present?	Y		Minimal sediment found within the Underground detention pipe system (<1-2")
Trash/Debris Present?	N		
Separation of joints, cracks, breaks, or deterioration of structure?	N		
Algal growth present?	N		
Evidence of seepage, leakage, or rust?	N		
Evidence of pollutants?	N		
Inlet and Outlet Piping			
Inspection Manhole functioning properly?	Y		
Clogging of inflow pipes?	N		
Clogging of outflow pipes?	N		



Inspection Finding	Y/N	Maintenance Required? Y/N	Comments
Obstruction	N		
Adequate riprap? (if applicable)	N/A		
Undercutting at outlet?	N/A		
Outlet channel scour?	N		
<p>Notes: This underground detention appears to be functioning as designed based on the inspection that was performed on (6/16/2021). Continue to monitor and inspect this system to ensure system is functioning properly.</p>			

Inspector Name: Reid Walsh				
Type of BMP: Inlet / Roof BMP 16				Date: 6/16/2021
Component	Yes	No	Comments	
Initial Observations				
Standing water?		X		
Damage to box structure?		X		
Damage to grate?		X		
Is bypass clear?	X			
Waste				
Silt/clay?	X			
Cups/bags/trash?	X			
Leaves?	X			
Other?	X			
Erosion Control				
Component	Yes	No	N/A	Comments
Netting in need of replacement?			X	

Component	Yes	No	N/A	Comments
Stones in need of replacement?		X		

Mulch

Depth from top of slab to surface mulch	Inlet Filtterra	Roof Filtterra	Comments
Measured (inches)			
Allowed range (inches)			

Notes: This filtterra unit appeared to be functioning properly during the time of inspection.

Amount of mulch to be added or replaced	3"
Type of mulch to be added or replaced	Hardwood Double Shredded
Date mulch added or replaced	6/16/2021

Plantings

1 is plant to the left when facing the inlet and 2 in the plane to the right when facing the inlet

Plant information	1	2		1	2
Height above grate	14'		Health of plant(s)	Alive / Dead	Alive / Dead
Stem diameter/caliper	3.25"		Damage to plant(s)	Y / N	Y / N
Width at widest point	7.25'		Plant(s) replaced	Y / N	Y / N

Notes:



Maintenance was performed on this filterra unit on 6/16/2021. At the time of the inspection/maintenance visit there did not appear to be any other necessary repairs to be completed at this time. Continue performing routine inspection/maintenance twice per year to ensure the overall functionality and longevity of this system.

Certification:

If no maintenance is required, certify the following:

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

Signature of Inspector

Date



__6/16/2021__

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: _____

Inspector Name: Reid Walsh				
Type of BMP: Inlet / Roof BMP 17				Date: 6/16/2021
Component	Yes	No	Comments	
Initial Observations				
Standing water?		X		
Damage to box structure?		X		
Damage to grate?		X		
Is bypass clear?	X			
Waste				
Silt/clay?	X			
Cups/bags/trash?	X			
Leaves?	X			
Other?	X			
Erosion Control				
Component	Yes	No	N/A	Comments
Netting in need of replacement?			X	

Component	Yes	No	N/A	Comments
Stones in need of replacement?		X		

Mulch

Depth from top of slab to surface mulch	Inlet Filtterra	Roof Filtterra	Comments
Measured (inches)			
Allowed range (inches)			

Notes: This filtterra unit appeared to be functioning properly during the time of inspection.

Amount of mulch to be added or replaced	3"
Type of mulch to be added or replaced	Hardwood Double Shredded
Date mulch added or replaced	6/16/2021

Plantings

1 is plant to the left when facing the inlet and 2 in the plane to the right when facing the inlet

Plant information	1	2		1	2
Height above grate	20'		Health of plant(s)	Alive / Dead	Alive / Dead
Stem diameter/caliper	5"		Damage to plant(s)	Y / N	Y / N
Width at widest point	11'		Plant(s) replaced	Y / N	Y / N

Notes:



Maintenance was performed on this filterra unit on 6/16/2021. At the time of the inspection/maintenance visit there did not appear to be any other necessary repairs to be completed at this time. Continue performing routine inspection/maintenance twice per year to ensure the overall functionality and longevity of this system.

Certification:

If no maintenance is required, certify the following:

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

Signature of Inspector

Date



__6/16/2021__

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: _____

Inspector Name: Reid Walsh				
Type of BMP: Inlet / Roof BMP 18				Date: 6/16/2021
Component	Yes	No	Comments	
Initial Observations				
Standing water?		X		
Damage to box structure?		X		
Damage to grate?		X		
Is bypass clear?	X			
Waste				
Silt/clay?	X			
Cups/bags/trash?	X			
Leaves?	X			
Other?	X			
Erosion Control				
Component	Yes	No	N/A	Comments
Netting in need of replacement?			X	

Component	Yes	No	N/A	Comments
Stones in need of replacement?		X		

Mulch

Depth from top of slab to surface mulch	Inlet Filtterra	Roof Filtterra	Comments
Measured (inches)			
Allowed range (inches)			

Notes: This filtterra unit appeared to be functioning properly during the time of inspection.

Amount of mulch to be added or replaced	3"
Type of mulch to be added or replaced	Hardwood Double Shredded
Date mulch added or replaced	6/16/2021

Plantings

1 is plant to the left when facing the inlet and 2 in the plane to the right when facing the inlet

Plant information	1	2		1	2
Height above grate	8'		Health of plant(s)	Alive / Dead	Alive / Dead
Stem diameter/caliper	1"		Damage to plant(s)	Y / N	Y / N
Width at widest point	5'		Plant(s) replaced	Y / N	Y / N

Notes:



Maintenance was performed on this filterra unit on 6/16/2021. At the time of the inspection/maintenance visit there did not appear to be any other necessary repairs to be completed at this time. Continue performing routine inspection/maintenance twice per year to ensure the overall functionality and longevity of this system.

Certification:

If no maintenance is required, certify the following:

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

Signature of Inspector

Date

[Handwritten Signature]

6/16/2021

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: _____

Inspector Name: Reid Walsh				
Type of BMP: Inlet / Roof BMP 19				Date: 6/16/2021
Component	Yes	No	Comments	
Initial Observations				
Standing water?		X		
Damage to box structure?		X		
Damage to grate?		X		
Is bypass clear?	X			
Waste				
Silt/clay?	X			
Cups/bags/trash?	X			
Leaves?	X			
Other?	X			
Erosion Control				
Component	Yes	No	N/A	Comments
Netting in need of replacement?			X	

Component	Yes	No	N/A	Comments
Stones in need of replacement?		X		

Mulch

Depth from top of slab to surface mulch	Inlet Filtterra	Roof Filtterra	Comments
Measured (inches)			
Allowed range (inches)			

Notes: This filtterra unit appeared to be functioning properly during the time of inspection.

Amount of mulch to be added or replaced	3"
Type of mulch to be added or replaced	Hardwood Double Shredded
Date mulch added or replaced	6/16/2021

Plantings

1 is plant to the left when facing the inlet and 2 in the plane to the right when facing the inlet

Plant information	1	2		1	2
Height above grate	8'		Health of plant(s)	Alive / Dead	Alive / Dead
Stem diameter/caliper	1"		Damage to plant(s)	Y / N	Y / N
Width at widest point	5'		Plant(s) replaced	Y / N	Y / N

Notes:



Maintenance was performed on this filterra unit on 6/16/2021. At the time of the inspection/maintenance visit there did not appear to be any other necessary repairs to be completed at this time. Continue performing routine inspection/maintenance twice per year to ensure the overall functionality and longevity of this system.

Certification:

If no maintenance is required, certify the following:

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

Signature of Inspector

Date



__6/16/2021__

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: _____

Inspector Name: Reid Walsh				
Type of BMP: Inlet / Roof BMP 20				Date: 6/16/2021
Component	Yes	No	Comments	
Initial Observations				
Standing water?		X		
Damage to box structure?		X		
Damage to grate?		X		
Is bypass clear?	X			
Waste				
Silt/clay?	X			
Cups/bags/trash?	X			
Leaves?	X			
Other?	X			
Erosion Control				
Component	Yes	No	N/A	Comments
Netting in need of replacement?			X	

Component	Yes	No	N/A	Comments
Stones in need of replacement?		X		

Mulch

Depth from top of slab to surface mulch	Inlet Filtterra	Roof Filtterra	Comments
Measured (inches)			
Allowed range (inches)			

Notes: This filtterra unit appeared to be functioning properly during the time of inspection.

Amount of mulch to be added or replaced	3"
Type of mulch to be added or replaced	Hardwood Double Shredded
Date mulch added or replaced	6/16/2021

Plantings

1 is plant to the left when facing the inlet and 2 in the plane to the right when facing the inlet

Plant information	1	2		1	2
Height above grate	15'		Health of plant(s)	Alive / Dead	Alive / Dead
Stem diameter/caliper	3.5"		Damage to plant(s)	Y / N	Y / N
Width at widest point	9.5'		Plant(s) replaced	Y / N	Y / N

Notes:



Maintenance was performed on this filterra unit on 6/16/2021. At the time of the inspection/maintenance visit there did not appear to be any other necessary repairs to be completed at this time. Continue performing routine inspection/maintenance twice per year to ensure the overall functionality and longevity of this system.

Certification:

If no maintenance is required, certify the following:

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

Signature of Inspector

Date

[Handwritten Signature]

6/16/2021

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: _____

Inspector Name: Reid Walsh				
Type of BMP: Inlet / Roof BMP 21				Date: 6/16/2021
Component	Yes	No	Comments	
Initial Observations				
Standing water?		X		
Damage to box structure?		X		
Damage to grate?		X		
Is bypass clear?	X			
Waste				
Silt/clay?	X			
Cups/bags/trash?	X			
Leaves?	X			
Other?	X			
Erosion Control				
Component	Yes	No	N/A	Comments
Netting in need of replacement?			X	

Component	Yes	No	N/A	Comments
Stones in need of replacement?		X		

Mulch

Depth from top of slab to surface mulch	Inlet Filtterra	Roof Filtterra	Comments
Measured (inches)			
Allowed range (inches)			

Notes: This filtterra unit appeared to be functioning properly during the time of inspection.

Amount of mulch to be added or replaced	3"
Type of mulch to be added or replaced	Hardwood Double Shredded
Date mulch added or replaced	6/16/2021

Plantings

1 is plant to the left when facing the inlet and 2 in the plane to the right when facing the inlet

Plant information	1	2		1	2
Height above grate	15'		Health of plant(s)	Alive / Dead	Alive / Dead
Stem diameter/caliper	3.5"		Damage to plant(s)	Y / N	Y / N
Width at widest point	9.5'		Plant(s) replaced	Y / N	Y / N

Notes:



Maintenance was performed on this filterra unit on 6/16/2021. At the time of the inspection/maintenance visit there did not appear to be any other necessary repairs to be completed at this time. Continue performing routine inspection/maintenance twice per year to ensure the overall functionality and longevity of this system.

Certification:

If no maintenance is required, certify the following:

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

Signature of Inspector

Date



__6/16/2021__

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: _____

Inspector Name: Reid Walsh						
Type of BMP: BMP 22				Maintenance Required?		Date: 6/16/2021
Component	Yes	No	Condition When Maintenance is Needed	Yes	No	Comments
Below Ground Vault						
Sediment accumulation top of cartridge		X	Sediment depth exceeds 0.25 inches		X	
Sediment accumulation in vault	X		Sediment depth exceeds 4 inches in the first chamber		X	
Submerged cartridges		X	More than 4" of static water in the cartridge bay 24 hours after last rainfall event		X	
Trash/debris accumulation		X	Trash and debris accumulated on compost filter bed		X	
Sediment in drain pipes or cleanouts		X	Drain pipes and/or clean outs are full of sediment and/or debris		X	
Damaged pipes		X	Any part of any pipe crushed or damaged due to corrosion/deformation of cover		X	
Access cover damaged/not working		X	Cover cannot be opened; one person cannot open cover using normal lifting pressure; corrosion/deformation of cover		X	
Vault structure includes cracks in wall or bottom; damage to the frame and/or top slab		X	Cracks wider than .5" or evidence of soil particles entering the structure through cracks; determination that the vault is not structurally sound		X	

			Cracks wider than 0.5" at the joint of any inlet/outlet pipe or evidence of soil particles entering through the cracks			
Baffles		X	Baffles corroding, cracking, warping, and/or showing signs of failure		X	
Access ladder damaged		X	Ladder is corroded or deteriorated, not functioning properly, not securely attached to structure wall and/or missing rungs; cracks; misalignment		X	
Filter media		X	Drawdown of water through the media takes longer than one hour and/or overflow occurs frequently		X	
Short circuiting		X	Flows do not properly enter filter cartridges		X	

Notes: This stormfilter facility appeared to be functioning properly during the time of inspection. Roughly 2" of sediment at the deepest point inside this facility. Very little if any trash or debris noted at this time. Continue to perform routine inspections/maintenance to ensure the help ensure the overall functionality and longevity of this system.

Inspector Name: Reid Walsh						
Type of BMP: BMP 23				Maintenance Required?		Date: 6/16/2021
Component	Yes	No	Condition When Maintenance is Needed	Yes	No	Comments
Below Ground Vault						
Sediment accumulation top of cartridge		X	Sediment depth exceeds 0.25 inches		X	
Sediment accumulation in vault	X		Sediment depth exceeds 4 inches in the first chamber		X	
Submerged cartridges		X	More than 4" of static water in the cartridge bay 24 hours after last rainfall event		X	
Trash/debris accumulation		X	Trash and debris accumulated on compost filter bed		X	
Sediment in drain pipes or cleanouts		X	Drain pipes and/or clean outs are full of sediment and/or debris		X	
Damaged pipes		X	Any part of any pipe crushed or damaged due to corrosion/deformation of cover		X	
Access cover damaged/not working		X	Cover cannot be opened; one person cannot open cover using normal lifting pressure; corrosion/deformation of cover		X	
Vault structure includes cracks in wall or bottom; damage to the frame and/or top slab		X	Cracks wider than .5" or evidence of soil particles entering the structure through cracks; determination that the vault is not structurally sound		X	

			Cracks wider than 0.5" at the joint of any inlet/outlet pipe or evidence of soil particles entering through the cracks			
Baffles		X	Baffles corroding, cracking, warping, and/or showing signs of failure		X	
Access ladder damaged		X	Ladder is corroded or deteriorated, not functioning properly, not securely attached to structure wall and/or missing rungs; cracks; misalignment		X	
Filter media		X	Drawdown of water through the media takes longer than one hour and/or overflow occurs frequently		X	
Short circuiting		X	Flows do not properly enter filter cartridges		X	
<p>Notes: This stormfilter facility appeared to be functioning properly during the time of inspection. Trace amounts of sediment found and very little if any trash or debris noted at this time. Continue to perform routine inspections/maintenance to ensure the help ensure the overall functionality and longevity of this system.</p>						



Inspector Name: Reid Walsh			
Type of BMP: BMP 24			Date: 6/16/2021
Inspection Finding	Y/N	Maintenance Required? Y/N	Comments
Internal Storage Area			
Sediment Present?	N		Trace amounts of sediment found in the system
Trash/Debris Present?	N		
Separation of joints, cracks, breaks, or deterioration of structure?	N		
Algal growth present?	N		
Evidence of seepage, leakage, or rust?	N		
Evidence of pollutants?	N		
Inlet and Outlet Piping			
Inspection Manhole functioning properly?	Y		
Clogging of inflow pipes?	N		
Clogging of outflow pipes?	N		



Inspection Finding	Y/N	Maintenance Required? Y/N	Comments
Obstruction	N		
Adequate riprap? (if applicable)	N/A		
Undercutting at outlet?	N/A		
Outlet channel scour?	N		
<p>Notes: This underground detention appears to be functioning as designed based on the inspection that was performed on (6/16/2021). Continue to monitor and inspect this system to ensure system is functioning properly. This facility was holding water during the time of inspection but there was no understanding as to the reasoning for that.</p>			



Inspector Name: Reid Walsh			
Type of BMP: BMP 25			Date: 6/16/2021
Inspection Finding	Y/N	Maintenance Required? Y/N	Comments
Internal Storage Area			
Sediment Present?	Y		(1-2") of sediment found in the SW access point
Trash/Debris Present?	N		
Separation of joints, cracks, breaks, or deterioration of structure?	N		
Algal growth present?	N		
Evidence of seepage, leakage, or rust?	N		
Evidence of pollutants?	N		
Inlet and Outlet Piping			
Inspection Manhole functioning properly?	Y		
Clogging of inflow pipes?	N		
Clogging of outflow pipes?	N		



Inspection Finding	Y/N	Maintenance Required? Y/N	Comments
Obstruction	N		
Adequate riprap? (if applicable)	N/A		
Undercutting at outlet?	N/A		
Outlet channel scour?	N		
<p>Notes: This underground detention appears to be functioning as designed based on the inspection that was performed on (6/16/2021). The low flow orifice was clear and no evidence of standing water inside this facility Continue to monitor and inspect this system to ensure system is functioning properly. 1-2" of sediment was found in the furthest SW access point.</p>			



Inspector Name: Reid Walsh			
Type of BMP: BMP 26			Date: 6/16/2021
Inspection Finding	Y/N	Maintenance Required? Y/N	Comments
Internal Storage Area			
Sediment Present?	N		Trace amounts of sediment found in the system
Trash/Debris Present?	N		
Separation of joints, cracks, breaks, or deterioration of structure?	N		
Algal growth present?	N		
Evidence of seepage, leakage, or rust?	N		
Evidence of pollutants?	N		
Inlet and Outlet Piping			
Inspection Manhole functioning properly?	Y		
Clogging of inflow pipes?	N		
Clogging of outflow pipes?	N		



Inspection Finding	Y/N	Maintenance Required? Y/N	Comments
Obstruction	N		
Adequate riprap? (if applicable)	N/A		
Undercutting at outlet?	N/A		
Outlet channel scour?	N		
<p>Notes: This underground detention appears to be functioning as designed based on the inspection that was performed on (6/16/2021). The low flow orifice was clear and no evidence of standing water inside this facility Continue to monitor and inspect this system to ensure system is functioning properly.</p>			

Inspector Name: Reid Walsh			
Type of BMP: BMP 27			Date: 6/16/2021
Inspection Finding	Y/N	Maintenance Required? Y/N	Comments
Internal Storage Area			
Sediment Present?	Y		(3-4") of sediment found in the storage chamber on left side of weir wall before water makes its way into sand filter
Trash/Debris Present?	N		
Separation of joints, cracks, breaks, or deterioration of structure?	N		
Algal growth present?	N		
Evidence of seepage, leakage, or rust?	N		
Evidence of pollutants?	N		
Inlet and Outlet Piping			
Inspection Manhole functioning properly?	Y		
Clogging of inflow pipes?	N		
Clogging of outflow pipes?	N		



Inspection Finding	Y/N	Maintenance Required? Y/N	Comments
Obstruction	N		
Adequate riprap? (if applicable)	N/A		
Undercutting at outlet?	N/A		
Outlet channel scour?	N		
<p>Notes: This underground detention appears to be functioning in moderate condition based on the inspection that was performed on (6/16/2021). We noted 3-4" of sediment on chamber side and the fabric on top of sand filter needs to be repositioned so that it is effective. Continue to monitor and inspect this system to ensure system is functioning properly.</p>			



Inspector Name: Reid Walsh			
Type of BMP: BMP 28			Date: 6/16/2021
Inspection Finding	Y/N	Maintenance Required? Y/N	Comments
Internal Storage Area			
Sediment Present?	Y		(12") of sediment found in the storage chamber on left side of weir wall before water makes its way into sand filter. (3") found on top of fabric for sand filter.
Trash/Debris Present?	N		
Separation of joints, cracks, breaks, or deterioration of structure?	N		
Algal growth present?	N		
Evidence of seepage, leakage, or rust?	N		
Evidence of pollutants?	N		
Inlet and Outlet Piping			
Inspection Manhole functioning properly?	Y		
Clogging of inflow pipes?	N		
Clogging of outflow pipes?	N		



Inspection Finding	Y/N	Maintenance Required? Y/N	Comments
Obstruction	N		
Adequate riprap? (if applicable)	N/A		
Undercutting at outlet?	N/A		
Outlet channel scour?	N		
<p>Notes: This underground detention appears to be functioning in moderate condition based on the inspection that was performed on (6/16/2021). We noted 12" of sediment on chamber side and 3" of sediment on top the fabric of sand filter. Continue to monitor and inspect this system to ensure system is functioning properly.</p>			

Inspector Name: Reid Walsh		
Project: Name: VSU		
Type of BMP: Wet Pond (BMP 29)		Date: 6/17/2021
Inspection Item	Problem? Yes, No or N/A	If YES, Describe Required Repairs
Dams and Embankments		
Are there any trees, bushes or any unwanted growth present?	N	
Are bare spots, cracks, depressions or erosion present?	N	
Is there evidence of rodent or wildlife damage?	N	
Is there any evidence of seepage?	N	
If bridges are present, are they in need of repair or replacement?	N	
Principle Spillway/Inlet Outlet Structures		
Are there any obstructions present?	N	
Are there any signs of seepage?	N	
Is there any separation of joints, cracks, breaks, or deterioration of concrete?	N	
Are there signs of differential settlement or undermining?	N	
Is there sediment buildup?	N	
Is there scouring at the inlet or outlet?	N	
Are energy dissipaters in need of repair?	N	

Inspection Item	Problem? Yes, No or N/A	If YES, Describe Required Repairs
Does rip-rap need to be added or reworked?	N	
Riser and Trash Rack		
Is the riser and trash rack less than vertical?	N	
Is the riser and trash rack separated or in need of repair?	N	
Is the stone cone less than fully functional?	N/A	
Are low perforations clogged or damaged?	N	
Is there any accumulated debris around in the trash rack or riser?	N	
Gates or Valves		
Are gates or valves less than fully functional?	N/A	
Is there rust damage?	N/A	
Is there any evidence of leaking?	N/A	
Reservoir Area		
Is there sediment build up or debris in the basin?	N	
Are there any trees, bushes or any unwanted growth present?	N	
Does growth in or around the basin block any inlet or outlet pipe or channel?	N	
Does wet design volume appear to be reduced by excess vegetation?	N	
Is there evidence of erosion?	N	

Inspection Item	Problem? Yes, No or N/A	If YES, Describe Required Repairs
Is there evidence of pollutants?	N	
Inlet Structures		
Is there evidence of erosion?	N	
Is there settlement?	N	
Is there undermining?	N	
Is there build up in the forebays?	N	
Wetland Grasses		
Do wetland grasses, where required by plan, need to be replanted?	N/A	
Fences		
Are posts in need of repair or replacement?	N	
Is fencing in need of repair or replacement?	N	
Is there accumulated debris around the fence?	N	
Is the access gate or its hardware in need of repair or replacement?	N	
Have vegetative barriers been removed or died?	N	
Inspector Notes		
<p>Note any other discrepancies observed and necessary repair</p> <p>This dry pond appeared to be functioning per design during the time of inspection. Continue to perform routine maintenance as needed.</p>		



Certification:

If no maintenance is required, certify the following:

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

Signature of Inspector

Date

A handwritten signature in black ink, appearing to read "R. Smith", is written over a horizontal line.

6/17/2021

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: _____

Inspector Name: Reid Walsh		
Project: Name: VSU		
Type of BMP: Wet Pond (BMP 30)		Date: 6/17/2021
Inspection Item	Problem? Yes, No or N/A	If YES, Describe Required Repairs
Dams and Embankments		
Are there any trees, bushes or any unwanted growth present?	N	
Are bare spots, cracks, depressions or erosion present?	N	
Is there evidence of rodent or wildlife damage?	N	
Is there any evidence of seepage?	N	
If bridges are present, are they in need of repair or replacement?	N	
Principle Spillway/Inlet Outlet Structures		
Are there any obstructions present?	N	
Are there any signs of seepage?	N	
Is there any separation of joints, cracks, breaks, or deterioration of concrete?	N	
Are there signs of differential settlement or undermining?	N	
Is there sediment buildup?	N	
Is there scouring at the inlet or outlet?	N	
Are energy dissipaters in need of repair?	N	

Inspection Item	Problem? Yes, No or N/A	If YES, Describe Required Repairs
Does rip-rap need to be added or reworked?	N	
Riser and Trash Rack		
Is the riser and trash rack less than vertical?	N	
Is the riser and trash rack separated or in need of repair?	N	
Is the stone cone less than fully functional?	N/A	
Are low perforations clogged or damaged?	N	
Is there any accumulated debris around in the trash rack or riser?	Y	Cattail mass present around outlet structure. Although, it does not appear to be impacting the functionality of this structure
Gates or Valves		
Are gates or valves less than fully functional?	N/A	
Is there rust damage?	N/A	
Is there any evidence of leaking?	N/A	
Reservoir Area		
Is there sediment build up or debris in the basin?	N	
Are there any trees, bushes or any unwanted growth present?	Y	Cattails present throughout the entire edge of water
Does growth in or around the basin block any inlet or outlet pipe or channel?	N	
Does wet design volume appear to be reduced by excess vegetation?	N	
Is there evidence of erosion?	N	

Inspection Item	Problem? Yes, No or N/A	If YES, Describe Required Repairs
Is there evidence of pollutants?	N	
Inlet Structures		
Is there evidence of erosion?	N	
Is there settlement?	N	
Is there undermining?	N	
Is there build up in the forebays?	N	
Wetland Grasses		
Do wetland grasses, where required by plan, need to be replanted?	N/A	
Fences		
Are posts in need of repair or replacement?	N/A	
Is fencing in need of repair or replacement?	N/A	
Is there accumulated debris around the fence?	N/A	
Is the access gate or its hardware in need of repair or replacement?	N/A	
Have vegetative barriers been removed or died?	N/A	
Inspector Notes		
<p>Note any other discrepancies observed and necessary repairs below:</p> <ul style="list-style-type: none"> - Cut back or remove/treat cattails to ensure that they do not eventually impact the overall storage capacity of this pond 		



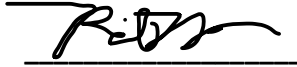
Certification:

If no maintenance is required, certify the following:

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

Signature of Inspector

Date



6/17/2021

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: _____

Inspector Name: Reid Walsh				
Type of BMP: BMP 31				Date: 6/16/2021
Component	Yes	No	N/A	Comments
Debris Cleanout				
Contributing areas of debris		X		
Filtration facility clean of debris	X			
Inlets and outlets clear of debris	X			
Vegetation in Contributing Drainage Area				
Stabilized	X			
Active evidence of erosion		X		
Area mowed and clippings removed	X			
Oil and Grease				
Evidence of filter surface clogging		X		
Activities in drainage area to minimize oil and grease entry	X			
Water Retention Where Required				
Water holding chambers at normal pool	X			
Evidence of leakage		X		
Sediment Deposition				
Filtration chambers clean of sediment	X			
Water chambers not more than half full of sediment		X		
Structural Components				
Evidence of structural deterioration		X		



Grates are in good condition	X			
Evidence of spalling or cracking of structural parts		X		
Outlets/Overflow Spillway				
Obstruction		X		
Adequate riprap			X	
Undercutting at the outlet			X	
Outlet channel scour			X	
Overall Function of Facility				
Evidence of flow	X			
Noticeable odors		X		
<p>Notes: This stormwater facility appeared to be functioning in good condition during the time. Maintenance performed on 6/15/2021. Continue performing routine inspections/maintenance as needed.</p>				
<p>Certification:</p> <p>If no maintenance is required, certify the following:</p> <p>"I certify that the inspection is complete and that no action is necessary at this time."</p> <p style="text-align: center;">Signature of Inspector Date</p> <p style="text-align: center;">  _____ 6/16/2021 _____ </p> <p>If maintenance is required, provide a time frame for maintenance completion: _____</p> <p>Upon maintenance completion, re-inspect and certify the following:</p> <p>"I certify that all recommended maintenance is complete and no additional action is necessary at this time"</p> <p style="text-align: center;">Signature of Inspector Date</p> <p style="text-align: center;"> _____ _____ </p> <p>Next inspection date: _____</p>				

Sand Filter



Inspection & Maintenance

Inspector Name: Reid Walsh						
Type of BMP: BMP 32				Maintenance Required?		Date: 6/17/2021
Component	Yes	No	Condition When Maintenance is Needed	Yes	No	Comments
The access manhole or access doors are functioning properly and are structurally sound	X				X	
Sediment and oil are present (provide depth)		X			X	Very minimal sediment found (<1")
Floatable pollutant accumulation is present in the pre-treatment bay		X			X	
The Cartridge Bay is visually inspected for sediment depth (provide depth) if >6" maintenance is required		X				(<1") of measurable sediment, some mulch present inside the cartridge bay
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 > 3" of water above the sediment layer, the Sorbtive bricks require cleaning or replacement)	X				X	
The internal components show no sign of damage		X			X	
<p>Notes: This stormwater facility appeared to be functioning as designed during the time of inspection. No further action is needed at this time. It is important to continue to perform routine inspections and maintenance to help ensure this systems overall functionality and longevity.</p>						



Certification:

If no maintenance is required, certify the following:

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

Signature of Inspector

Date

A handwritten signature in black ink, appearing to read "R. O. H.", is written over a horizontal line.

6/17/2021

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: _____

Inspector Name: Reid Walsh						
Type of BMP: BMP 33				Maintenance Required?		Date: 6/17/2021
Component	Yes	No	Condition When Maintenance is Needed	Yes	No	Comments
The access manhole or access doors are functioning properly and are structurally sound	X				X	
Sediment and oil are present (provide depth)		X			X	Very minimal sediment found (<1")
Floatable pollutant accumulation is present in the pre-treatment bay		X			X	
The Cartridge Bay is visually inspected for sediment depth (provide depth) if >6" maintenance is required		X				(<1") of measurable sediment present in this system
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 > 3" of water above the sediment layer, the Sorbtive bricks require cleaning or replacement)	X				X	
The internal components show no sign of damage		X			X	
<p>Notes: This stormwater facility appeared to be functioning as designed during the time of inspection. No further action is needed at this time. It is important to continue to perform routine inspections and maintenance to help ensure this systems overall functionality and longevity.</p>						



Certification:

If no maintenance is required, certify the following:

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

Signature of Inspector

Date

A handwritten signature in black ink, appearing to read "R. O. H.", is written over a horizontal line.

6/17/2021

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: _____



Inspector Name: Reid Walsh						
Type of BMP: BMP 34				Maintenance Required?		Date: 6/17/2021
Component	Yes	No	Condition When Maintenance is Needed	Yes	No	Comments
The access manhole or access doors are functioning properly and are structurally sound	X				X	
Sediment and oil are present (provide depth)		X			X	Very minimal sediment found (<1")
Floatable pollutant accumulation is present in the pre-treatment bay		X			X	
The Cartridge Bay is visually inspected for sediment depth (provide depth) if >6" maintenance is required		X				(<1") of measurable sediment present in this system
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 > 3" of water above the sediment layer, the Sorbtive bricks require cleaning or replacement)	X				X	
The internal components show no sign of damage		X			X	
<p>Notes: This stormwater facility appeared to be functioning as designed during the time of inspection. No further action is needed at this time. It is important to continue to perform routine inspections and maintenance to help ensure this systems overall functionality and longevity.</p>						



Certification:

If no maintenance is required, certify the following:

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

Signature of Inspector

Date

A handwritten signature in black ink, appearing to read "R. O. H.", is written over a horizontal line.

6/17/2021

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: _____

Inspector Name: Reid Walsh							
Type of BMP: BMP 35					Maintenance Required?		Date: 6/16/2021
Component	Yes	No	Condition When Maintenance is Needed	Yes	No	Comments	
Below Ground Vault							
Sediment accumulation top of cartridge		X	Sediment depth exceeds 0.25 inches		X		
Sediment accumulation in vault	X		Sediment depth exceeds 4 inches in the first chamber		X		
Submerged cartridges		X	More than 4" of static water in the cartridge bay 24 hours after last rainfall event		X		
Trash/debris accumulation		X	Trash and debris accumulated on compost filter bed		X		
Sediment in drain pipes or cleanouts		X	Drain pipes and/or clean outs are full of sediment and/or debris		X		
Damaged pipes		X	Any part of any pipe crushed or damaged due to corrosion/deformation of cover		X		
Access cover damaged/not working		X	Cover cannot be opened; one person cannot open cover using normal lifting pressure; corrosion/deformation of cover		X		
Vault structure includes cracks in wall or bottom; damage to the frame and/or top slab		X	Cracks wider than .5" or evidence of soil particles entering the structure through cracks; determination that the vault is not structurally sound		X		

			Cracks wider than 0.5" at the joint of any inlet/outlet pipe or evidence of soil particles entering through the cracks			
Baffles		X	Baffles corroding, cracking, warping, and/or showing signs of failure		X	
Access ladder damaged		X	Ladder is corroded or deteriorated, not functioning properly, not securely attached to structure wall and/or missing rungs; cracks; misalignment		X	
Filter media		X	Drawdown of water through the media takes longer than one hour and/or overflow occurs frequently		X	
Short circuiting		X	Flows do not properly enter filter cartridges		X	
<p>Notes: This stormfilter facility appeared to be functioning properly during the time of inspection. Trace amounts of sediment found and very little if any trash or debris noted at this time. Continue to perform routine inspections/maintenance to ensure the help ensure the overall functionality and longevity of this system.</p>						

Inspector Name: Reid Walsh			
Type of BMP: BMP 36			Date: 6/16/2021
Inspection Finding	Y/N	Maintenance Required? Y/N	Comments
Internal Storage Area			
Sediment Present?	N		
Trash/Debris Present?	N		
Separation of joints, cracks, breaks, or deterioration of structure?	N		
Algal growth present?	N		
Evidence of seepage, leakage, or rust?	N		
Evidence of pollutants?	N		
Inlet and Outlet Piping			
Inspection Manhole functioning properly?	Y		
Clogging of inflow pipes?	N		
Clogging of outflow pipes?	N		



Inspection Finding	Y/N	Maintenance Required? Y/N	Comments
Obstruction	N		
Adequate riprap? (if applicable)	N/A		
Undercutting at outlet?	N/A		
Outlet channel scour?	N		
<p>Notes: This underground detention appears to be functioning in moderate condition based on the inspection that was performed on (6/16/20). Continue to monitor and inspect this system to ensure system is functioning properly.</p>			

Inspector Name: Reid Walsh			
Type of BMP: R-Tank (BMP 37)			Date: 6/17/2021
Inspection Finding	Y/N	Maintenance Required? Y/N	Comments
Internal Storage Area			
Sediment Present?	Y		Minor accumulation of sediment found in the inspection/maintenance port. No maintenance is necessary at this time.
Trash/Debris Present?	N		
Separation of joints, cracks, breaks, or deterioration of structure?	N		
Algal growth present?	N		
Evidence of seepage, leakage, or rust?	N		
Evidence of pollutants?	N		
Inlet and Outlet Piping			
Inspection Manhole functioning properly?	Y		
Clogging of inflow pipes?	N		
Clogging of outflow pipes?	N		



Inspection Finding	Y/N	Maintenance Required? Y/N	Comments
Obstruction	N		
Adequate riprap? (if applicable)	N/A		
Undercutting at outlet?	N/A		
Outlet channel scour?	N		
<p>Notes: This R-Tank underground detention system appears to be functioning as designed based on the inspection that was performed on (6/17/2021). Minimal sediment was found when probing down the inspection/maintenance port. Continue to monitor and inspect this system to ensure system is functioning properly.</p>			



Inspector Name: Reid Walsh			
Type of BMP: R-Tank (BMP 38)			Date: 6/17/2021
Inspection Finding	Y/N	Maintenance Required? Y/N	Comments
Internal Storage Area			
Sediment Present?	Y		Minor accumulation of sediment/gravel found in the inspection/maintenance port. No maintenance is necessary at this time.
Trash/Debris Present?	N		
Separation of joints, cracks, breaks, or deterioration of structure?	N		
Algal growth present?	N		
Evidence of seepage, leakage, or rust?	N		
Evidence of pollutants?	N		
Inlet and Outlet Piping			
Inspection Manhole functioning properly?	Y		
Clogging of inflow pipes?	N		
Clogging of outflow pipes?	N		



Inspection Finding	Y/N	Maintenance Required? Y/N	Comments
Obstruction	N		
Adequate riprap? (if applicable)	N/A		
Undercutting at outlet?	N/A		
Outlet channel scour?	N		
<p>Notes: This R-Tank underground detention system appears to be functioning as designed based on the inspection that was performed on (6/17/2021). Minimal sediment/gravel was found when probing down the inspection/maintenance port. Continue to monitor and inspect this system to ensure system is functioning properly.</p>			



Inspector Name: Reid Walsh			
Type of BMP: R-Tank (BMP 39)			Date: 6/17/2021
Inspection Finding	Y/N	Maintenance Required? Y/N	Comments
Internal Storage Area			
Sediment Present?	Y		Minor accumulation of sediment/gravel found in the inspection/maintenance port. No maintenance is necessary at this time.
Trash/Debris Present?	N		
Separation of joints, cracks, breaks, or deterioration of structure?	N		
Algal growth present?	N		
Evidence of seepage, leakage, or rust?	N		
Evidence of pollutants?	N		
Inlet and Outlet Piping			
Inspection Manhole functioning properly?	Y		
Clogging of inflow pipes?	N		
Clogging of outflow pipes?	N		



Inspection Finding	Y/N	Maintenance Required? Y/N	Comments
Obstruction	N		
Adequate riprap? (if applicable)	N/A		
Undercutting at outlet?	N/A		
Outlet channel scour?	N		
<p>Notes: This R-Tank underground detention system appears to be functioning as designed based on the inspection that was performed on (6/17/2021). Minimal sediment/gravel was found when probing down the inspection/maintenance port. Continue to monitor and inspect this system to ensure system is functioning properly.</p>			



Inspector Name: Reid Walsh			
Type of BMP: BMP 40			Date: 6/16/2021
Inspection Finding	Y/N	Maintenance Required? Y/N	Comments
Internal Storage Area			
Sediment Present?	N		Trace amounts of sediment found in the system
Trash/Debris Present?	N		
Separation of joints, cracks, breaks, or deterioration of structure?	N		
Algal growth present?	N		
Evidence of seepage, leakage, or rust?	N		
Evidence of pollutants?	N		
Inlet and Outlet Piping			
Inspection Manhole functioning properly?	Y		
Clogging of inflow pipes?	N		
Clogging of outflow pipes?	N		



Inspection Finding	Y/N	Maintenance Required? Y/N	Comments
Obstruction	N		
Adequate riprap? (if applicable)	N/A		
Undercutting at outlet?	N/A		
Outlet channel scour?	N		
<p>Notes: Maintenance was just performed on (6/15/2021). This underground detention appears to be functioning as designed based on the inspection that was performed on (6/16/2021). Continue to monitor and inspect this system to ensure system is functioning properly.</p>			

Inspector Name: Reid Walsh				
Type of BMP: Inlet / Roof BMP 41				Date: 6/14/2021
Component	Yes	No	Comments	
Initial Observations				
Standing water?		X		
Damage to box structure?		X		
Damage to grate?		X		
Is bypass clear?	X			
Waste				
Silt/clay?	X			
Cups/bags/trash?	X			
Leaves?	X			
Other?	X			
Erosion Control				
Component	Yes	No	N/A	Comments
Netting in need of replacement?			X	

Component	Yes	No	N/A	Comments
Stones in need of replacement?		X		

Mulch

Depth from top of slab to surface mulch	Inlet Filtterra	Roof Filtterra	Comments
Measured (inches)	15"		
Allowed range (inches)	14-16"		

Notes: This unit is functioning per design. Continue performing routine inspections/maintenance to help ensure the overall functionality and longevity of this system.

Amount of mulch to be added or replaced	3"
Type of mulch to be added or replaced	Hardwood Double Shredded
Date mulch added or replaced	6/14/2021

Plantings

1 is plant to the left when facing the inlet and 2 in the plane to the right when facing the inlet

Plant information	1	2		1	2
Height above grate	4.5'	4.5'	Health of plant(s)	Alive / Dead	Alive / Dead
Stem diameter/caliper	3"	3"	Damage to plant(s)	Y / N	Y / N
Width at widest point	4'	4.5'	Plant(s) replaced	Y / N	Y / N

Notes:



Maintenance was performed on this Filtterra unit on 6/14/2021. At the time of the inspection/maintenance visit there did not appear to be any other necessary repairs to be completed at this time. Continue performing routine maintenance. Noticed washout on Southeast side of concrete slab and filtterra unit. This area should undergo a further investigation to determine to reason for this issue and propose necessary repairs.

Certification:

If no maintenance is required, certify the following:

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

Signature of Inspector

Date



__6/14/2021__

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: _____

Inspector Name: Reid Walsh				
Type of BMP: Inlet / Roof BMP 42				Date: 6/14/2021
Component	Yes	No	Comments	
Initial Observations				
Standing water?		X		
Damage to box structure?		X		
Damage to grate?		X	Installed new grate, other grate was broken and in multiple pieces	
Is bypass clear?	X			
Waste				
Silt/clay?	X			
Cups/bags/trash?	X			
Leaves?	X			
Other?	X			
Erosion Control				
Component	Yes	No	N/A	Comments
Netting in need of replacement?			X	

Component	Yes	No	N/A	Comments
Stones in need of replacement?		X		

Mulch

Depth from top of slab to surface mulch	Inlet Filterra	Roof Filterra	Comments
Measured (inches)	14"		
Allowed range (inches)	14-16"		

Notes: This unit is functioning per design. Continue performing routine inspections/maintenance to help ensure the overall functionality and longevity of this system.

Amount of mulch to be added or replaced	3"
Type of mulch to be added or replaced	Hardwood Double Shredded
Date mulch added or replaced	6/14/2021

Plantings

1 is plant to the left when facing the inlet and 2 in the plane to the right when facing the inlet

Plant information	1	2		1	2
Height above grate	4.5'		Health of plant(s)	Alive / Dead	Alive / Dead
Stem diameter/caliper	2.5"		Damage to plant(s)	Y / N	Y / N
Width at widest point	4'		Plant(s) replaced	Y / N	Y / N

Notes:



Maintenance was performed on this Filterra unit on 6/14/2021. At the time of the inspection/maintenance visit there did not appear to be any other necessary repairs to be completed at this time. Continue performing routine maintenance.

Certification:

If no maintenance is required, certify the following:

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

Signature of Inspector

Date



__6/14/2021__

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: _____

Inspector Name: Reid Walsh				
Type of BMP: Inlet / Roof BMP 43				Date: 6/14/2021
Component	Yes	No	Comments	
Initial Observations				
Standing water?		X		
Damage to box structure?		X		
Damage to grate?		X		
Is bypass clear?	X			
Waste				
Silt/clay?	X			
Cups/bags/trash?	X			
Leaves?	X			
Other?	X			
Erosion Control				
Component	Yes	No	N/A	Comments
Netting in need of replacement?			X	

Component	Yes	No	N/A	Comments
Stones in need of replacement?		X		

Mulch

Depth from top of slab to surface mulch	Inlet Filtterra	Roof Filtterra	Comments
Measured (inches)	14.5"		
Allowed range (inches)	14-16"		

Notes: This unit is functioning per design. Continue performing routine inspections/maintenance to help ensure the overall functionality and longevity of this system.

Amount of mulch to be added or replaced	3"
Type of mulch to be added or replaced	Hardwood Double Shredded
Date mulch added or replaced	6/14/2021

Plantings

1 is plant to the left when facing the inlet and 2 in the plane to the right when facing the inlet

Plant information	1	2		1	2
Height above grate	4.25'		Health of plant(s)	Alive / Dead	Alive / Dead
Stem diameter/caliper	3"		Damage to plant(s)	Y / N	Y / N
Width at widest point	4'		Plant(s) replaced	Y / N	Y / N

Notes:



Maintenance was performed on this Filterra unit on 6/14/2021. At the time of the inspection/maintenance visit there did not appear to be any other necessary repairs to be completed at this time. Continue performing routine maintenance.

Certification:

If no maintenance is required, certify the following:

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

Signature of Inspector

Date



__6/14/2021__

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: _____

Inspector Name: Reid Walsh				
Type of BMP: Inlet / Roof BMP 44				Date: 6/14/2021
Component	Yes	No	Comments	
Initial Observations				
Standing water?		X		
Damage to box structure?		X		
Damage to grate?		X		
Is bypass clear?	X			
Waste				
Silt/clay?	X			
Cups/bags/trash?	X			
Leaves?	X			
Other?	X			
Erosion Control				
Component	Yes	No	N/A	Comments
Netting in need of replacement?			X	

Component	Yes	No	N/A	Comments
Stones in need of replacement?		X		

Mulch

Depth from top of slab to surface mulch	Inlet Filtterra	Roof Filtterra	Comments
Measured (inches)	14.5"		
Allowed range (inches)	14-16"		

Notes: This unit is functioning per design. Continue performing routine inspections/maintenance to help ensure the overall functionality and longevity of this system.

Amount of mulch to be added or replaced	3"
Type of mulch to be added or replaced	Hardwood Double Shredded
Date mulch added or replaced	6/14/2021

Plantings

1 is plant to the left when facing the inlet and 2 in the plane to the right when facing the inlet

Plant information	1	2		1	2
Height above grate	3'		Health of plant(s)	Alive / Dead	Alive / Dead
Stem diameter/caliper	2.25"		Damage to plant(s)	Y / N	Y / N
Width at widest point	4'		Plant(s) replaced	Y / N	Y / N

Notes:



Maintenance was performed on this Filterra unit on 6/14/2021. At the time of the inspection/maintenance visit there did not appear to be any other necessary repairs to be completed at this time. Continue performing routine maintenance.

Certification:

If no maintenance is required, certify the following:

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Signature of Inspector

Date



__6/14/2021__

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: _____

Inspector Name: Reid Walsh		
Project: Name: VSU		
Type of BMP: Wet Pond (BMP 46)		Date: 6/17/2021
Inspection Item	Problem? Yes, No or N/A	If YES, Describe Required Repairs
Dams and Embankments		
Are there any trees, bushes or any unwanted growth present?	N	
Are bare spots, cracks, depressions or erosion present?	N	
Is there evidence of rodent or wildlife damage?	N	
Is there any evidence of seepage?	N	
If bridges are present, are they in need of repair or replacement?	N	
Principle Spillway/Inlet Outlet Structures		
Are there any obstructions present?	N	
Are there any signs of seepage?	N	
Is there any separation of joints, cracks, breaks, or deterioration of concrete?	N	
Are there signs of differential settlement or undermining?	N	
Is there sediment buildup?	N	
Is there scouring at the inlet or outlet?	N	
Are energy dissipaters in need of repair?	N	

Inspection Item	Problem? Yes, No or N/A	If YES, Describe Required Repairs
Does rip-rap need to be added or reworked?	N	
Riser and Trash Rack		
Is the riser and trash rack less than vertical?	N	
Is the riser and trash rack separated or in need of repair?	N	
Is the stone cone less than fully functional?	N/A	
Are low perforations clogged or damaged?	N	
Is there any accumulated debris around in the trash rack or riser?	Y	Cattail mass present around outlet structure. Although, it does not appear to be impacting the functionality of this structure
Gates or Valves		
Are gates or valves less than fully functional?	N/A	
Is there rust damage?	N/A	
Is there any evidence of leaking?	N/A	
Reservoir Area		
Is there sediment build up or debris in the basin?	N	
Are there any trees, bushes or any unwanted growth present?	Y	Cattails present throughout the entire edge of water
Does growth in or around the basin block any inlet or outlet pipe or channel?	N	
Does wet design volume appear to be reduced by excess vegetation?	N	
Is there evidence of erosion?	N	

Inspection Item	Problem? Yes, No or N/A	If YES, Describe Required Repairs
Is there evidence of pollutants?	N	
Inlet Structures		
Is there evidence of erosion?	N	
Is there settlement?	N	
Is there undermining?	N	
Is there build up in the forebays?	N	
Wetland Grasses		
Do wetland grasses, where required by plan, need to be replanted?	N/A	
Fences		
Are posts in need of repair or replacement?	N/A	
Is fencing in need of repair or replacement?	N/A	
Is there accumulated debris around the fence?	N/A	
Is the access gate or its hardware in need of repair or replacement?	N/A	
Have vegetative barriers been removed or died?	N/A	
Inspector Notes		
<p>Note any other discrepancies observed and necessary repairs below:</p> <ul style="list-style-type: none"> - Cut back or remove/treat cattails to ensure that they do not eventually impact the overall storage capacity of this pond 		



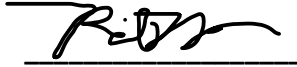
Certification:

If no maintenance is required, certify the following:

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

Signature of Inspector

Date



6/17/2021

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: _____

Inspector Name: Reid Walsh						
Type of BMP: BMP 47				Maintenance Required?		Date: 6/16/2021
Component	Yes	No	Condition When Maintenance is Needed	Yes	No	Comments
Below Ground Vault						
Sediment accumulation top of cartridge		X	Sediment depth exceeds 0.25 inches		X	
Sediment accumulation in vault		X	Sediment depth exceeds 4 inches in the first chamber		X	
Submerged cartridges		X	More than 4" of static water in the cartridge bay 24 hours after last rainfall event		X	
Trash/debris accumulation		X	Trash and debris accumulated on compost filter bed		X	
Sediment in drain pipes or cleanouts		X	Drain pipes and/or clean outs are full of sediment and/or debris		X	
Damaged pipes		X	Any part of any pipe crushed or damaged due to corrosion/deformation of cover		X	
Access cover damaged/not working		X	Cover cannot be opened; one person cannot open cover using normal lifting pressure; corrosion/deformation of cover		X	
Vault structure includes cracks in wall or bottom; damage to the frame and/or top slab		X	Cracks wider than .5" or evidence of soil particles entering the structure through cracks; determination that the vault is not structurally sound		X	

			Cracks wider than 0.5" at the joint of any inlet/outlet pipe or evidence of soil particles entering through the cracks			
Baffles		X	Baffles corroding, cracking, warping, and/or showing signs of failure		X	
Access ladder damaged		X	Ladder is corroded or deteriorated, not functioning properly, not securely attached to structure wall and/or missing rungs; cracks; misalignment		X	
Filter media	X		Drawdown of water through the media takes longer than one hour and/or overflow occurs frequently	X		Evidence of standing water and accumulated sediment and debris on top of cartridges are all signs that cartridges should be replaced and are at the end of their effective lifespan.
Short circuiting		X	Flows do not properly enter filter cartridges		X	

Notes: This stormfilter vault facility appeared to be functioning in moderate condition during the time of inspection. Maintenance was just performed on (6/15/2021) and during that cleanout we checked the media inside the cartridges. After checking the cartridge media it is evident that a cartridge replacement (91 cartridges) will be necessary during the next maintenance visit. Continue to perform routine inspections/maintenance to ensure the help ensure the overall functionality and longevity of this system.

Inspector Name: Reid Walsh						
Type of BMP: BMP 48				Maintenance Required?		Date: 6/16/2021
Component	Yes	No	Condition When Maintenance is Needed	Yes	No	Comments
Below Ground Vault						
Sediment accumulation top of cartridge		X	Sediment depth exceeds 0.25 inches		X	
Sediment accumulation in vault		X	Sediment depth exceeds 4 inches in the first chamber		X	
Submerged cartridges		X	More than 4" of static water in the cartridge bay 24 hours after last rainfall event		X	
Trash/debris accumulation		X	Trash and debris accumulated on compost filter bed		X	
Sediment in drain pipes or cleanouts		X	Drain pipes and/or clean outs are full of sediment and/or debris		X	
Damaged pipes		X	Any part of any pipe crushed or damaged due to corrosion/deformation of cover		X	
Access cover damaged/not working		X	Cover cannot be opened; one person cannot open cover using normal lifting pressure; corrosion/deformation of cover		X	
Vault structure includes cracks in wall or bottom; damage to the frame and/or top slab		X	Cracks wider than .5" or evidence of soil particles entering the structure through cracks; determination that the vault is not structurally sound		X	

			Cracks wider than 0.5" at the joint of any inlet/outlet pipe or evidence of soil particles entering through the cracks			
Baffles		X	Baffles corroding, cracking, warping, and/or showing signs of failure		X	
Access ladder damaged		X	Ladder is corroded or deteriorated, not functioning properly, not securely attached to structure wall and/or missing rungs; cracks; misalignment		X	
Filter media	X		Drawdown of water through the media takes longer than one hour and/or overflow occurs frequently	X		Evidence of standing water and accumulated sediment and debris on top of cartridges are all signs that cartridges should be replaced and are at the end of their effective lifespan.
Short circuiting		X	Flows do not properly enter filter cartridges		X	

Notes: This stormfilter vault facility appeared to be functioning in moderate condition during the time of inspection. Maintenance was just performed on (6/15/2021) and during that cleanout we checked the media inside the cartridges. After checking the cartridge media it is evident that a cartridge replacement (12 cartridges) will be necessary during the next maintenance visit. Continue to perform routine inspections/maintenance to ensure the help ensure the overall functionality and longevity of this system.

Inspector Name: Reid Walsh						
Type of BMP: BMP 49				Maintenance Required?		Date: 6/16/2021
Component	Yes	No	Condition When Maintenance is Needed	Yes	No	Comments
Below Ground Vault						
Sediment accumulation top of cartridge		X	Sediment depth exceeds 0.25 inches		X	
Sediment accumulation in vault		X	Sediment depth exceeds 4 inches in the first chamber		X	
Submerged cartridges		X	More than 4" of static water in the cartridge bay 24 hours after last rainfall event		X	
Trash/debris accumulation		X	Trash and debris accumulated on compost filter bed		X	
Sediment in drain pipes or cleanouts		X	Drain pipes and/or clean outs are full of sediment and/or debris		X	
Damaged pipes		X	Any part of any pipe crushed or damaged due to corrosion/deformation of cover		X	
Access cover damaged/not working		X	Cover cannot be opened; one person cannot open cover using normal lifting pressure; corrosion/deformation of cover		X	
Vault structure includes cracks in wall or bottom; damage to the frame and/or top slab		X	Cracks wider than .5" or evidence of soil particles entering the structure through cracks; determination that the vault is not structurally sound		X	

			Cracks wider than 0.5" at the joint of any inlet/outlet pipe or evidence of soil particles entering through the cracks			
Baffles		X	Baffles corroding, cracking, warping, and/or showing signs of failure		X	
Access ladder damaged		X	Ladder is corroded or deteriorated, not functioning properly, not securely attached to structure wall and/or missing rungs; cracks; misalignment		X	
Filter media	X		Drawdown of water through the media takes longer than one hour and/or overflow occurs frequently	X		Evidence of standing water and accumulated sediment and debris on top of cartridges are all signs that cartridges should be replaced and are at the end of their effective lifespan.
Short circuiting		X	Flows do not properly enter filter cartridges		X	

Notes: This stormfilter vault facility appeared to be functioning in moderate condition during the time of inspection. Maintenance was just performed on (6/16/2021) and during that cleanout we checked the media inside the cartridges. After checking the cartridge media it is evident that a cartridge replacement (21 cartridges) will be necessary during the next maintenance visit. Continue to perform routine inspections/maintenance to ensure the help ensure the overall functionality and longevity of this system.



Inspector Name: Reid Walsh			
Type of BMP: CMP Underground Detention (BMP 50)			Date: 6/17/2021
Inspection Finding	Y/N	Maintenance Required? Y/N	Comments
Internal Storage Area			
Sediment Present?	N		Trace amounts of sediment found in the CMP Underground Detention during the time of inspection.
Trash/Debris Present?	N		
Separation of joints, cracks, breaks, or deterioration of structure?	N		
Algal growth present?	N		
Evidence of seepage, leakage, or rust?	N		
Evidence of pollutants?	N		
Inlet and Outlet Piping			
Inspection Manhole functioning properly?	Y		
Clogging of inflow pipes?	N		
Clogging of outflow pipes?	N		



Inspection Finding	Y/N	Maintenance Required? Y/N	Comments
Obstruction	N		
Adequate riprap? (if applicable)	N/A		
Undercutting at outlet?	N/A		
Outlet channel scour?	N		
<p>Notes: This CMP underground detention system appears to be functioning as designed based on the inspection that was performed on (6/17/2021). Very minimal sediment deposits found when probing at each manhole access point. Continue to monitor and inspect this system to ensure system is functioning properly.</p>			



STORMWATER MANAGEMENT

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(804) 302-5151,
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06/21/2021

CUSTOMER	SERVICE LOCATION
Timmons Group Sheila Reeves 1001 Boulders Parkway, Suite 300 Richmond VA 23225 (804) 200-6544	VSU 1 Hayden Drive Petersburg VA 23806

JOB DETAILS	Inspection of Roof Filterras: Units 1, 2, 3, 4, 5, 6, 16, 17, 18, 19, 20, 21
--------------------	---

COMPLETION NOTES	Completed inspection and maintenance of Roof Filterras. BMP units 1, 2, 3, 4, 5, 6, 16, 17, 18, 19, 20, 21
-------------------------	---

PICTURES



BMP 1



BMP 1



BMP 2



BMP 2



BMP 3



BMP 3



BMP 4



BMP 4



BMP 5



BMP 5



BMP 6



BMP 6



BMP 16



BMP 16



BMP 17



BMP 17



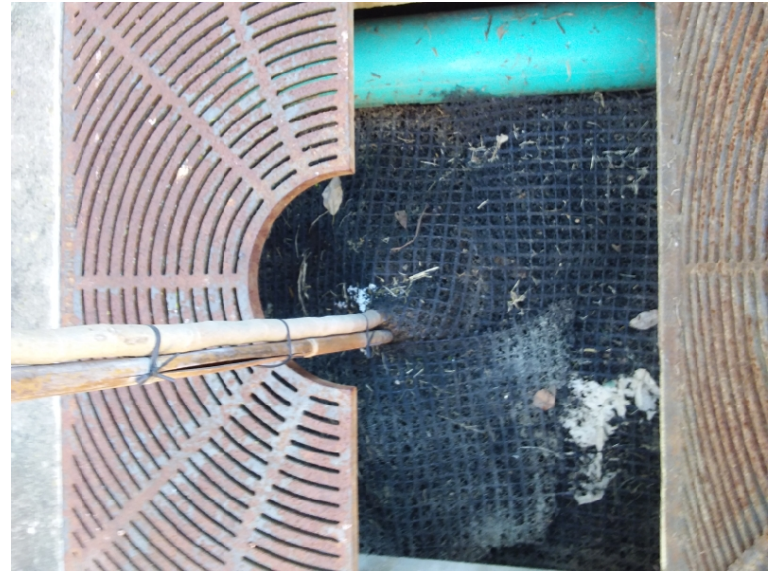
BMP 18



BMP 18



BMP 19



BMP 19



BMP 20



BMP 21

BMP 20



BMP 21



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Timmons Group Sheila Reeves 1001 Boulders Parkway, Suite 300 Richmond VA 23225 (804) 200-6544	VSU 1 Hayden Drive Petersburg VA 23806

JOB DETAILS	Inspection of Inlet Filtreras: Units 7, 8, 9, 10, 11, 12, 13, 41, 42, 43, 44
--------------------	---

COMPLETION NOTES	Completed inspection and maintenance of Inlet Filtreras. BMP units 7, 8, 9, 10, 11, 12, 13, 42, 43, 44
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PICTURES



BMP 7



BMP 7



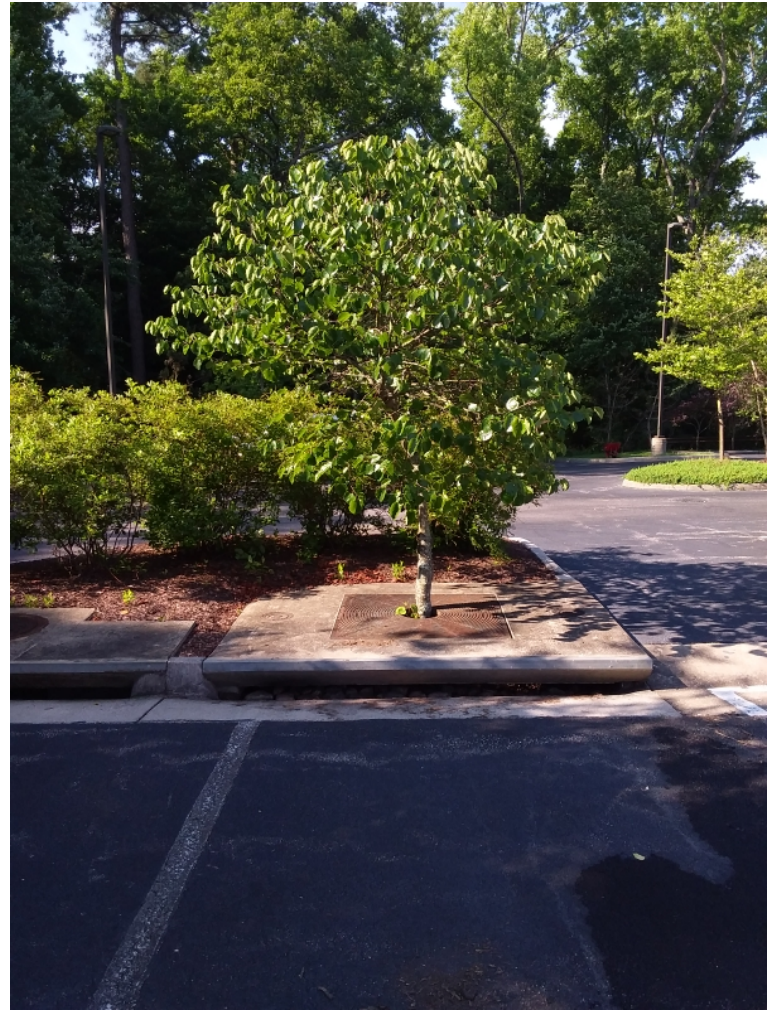
BMP 7



BMP 8



BMP 8



BMP 9



BMP 9



BMP 9



BMP 10



BMP 10



BMP 10



BMP 11



BMP 11



BMP 11



BMP 11



BMP 12



BMP 12



BMP 12



BMP 13



BMP 13



BMP 13



BMP 41



BMP 41



BMP 41



BMP 41



BMP 42



BMP 42



BMP 43



BMP 43



BMP 43



BMP 44



BMP 44



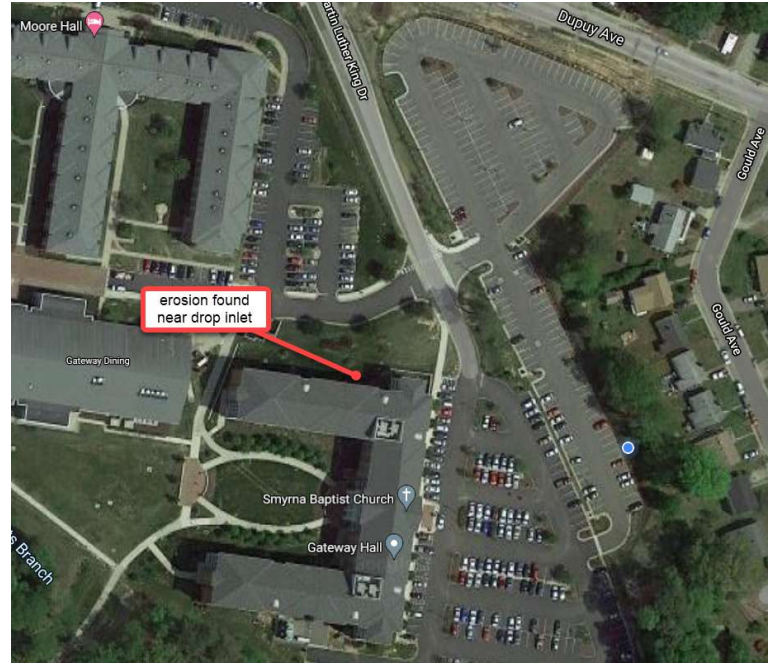
BMP 44



Noticed erosion and washout located SW of BMP 43



Noticed erosion and washout located SW of BMP 43



Site Map: showing area where erosion was noted



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Timmons Group Sheila Reeves 1001 Boulders Parkway, Suite 300 Richmond VA 23225 (804) 200-6544	VSU 1 Hayden Drive Petersburg VA 23806

JOB DETAILS	Inspection of Ungerground units Units 15, 24, 25, 26, 27, 28, 36, 37, 38, 39, 40, 50
--------------------	---

COMPLETION NOTES	Completed inspections of Underground Units and inspection checklists for each BMP. BMP units: 15, 24, 25, 26, 27, 28, 36, 37, 38, 39, 40, 50
-------------------------	---

PICTURES



BMP 15



BMP 15- minimal sediment found



BMP 15



BMP 15: hardly any sediment at this access point



BMP 24



BMP 24: 7' of water standing inside- minimal sediment



BMP 24



BMP 24: 7' of water and minimal sediment



BMP 25



BMP 25



BMP 25: minimal sediment



BMP 25: minimal sediment



BMP 25



BMP 25: 1-2" sediment



BMP 26



BMP 26: no significant sediment, trash or debris



BMP 26: no significant sediment, trash or debris



BMP 27



BMP 27- trace amounts of sediment and minor trash



BMP 27- fabric needs to be re-positioned on sand filter side



BMP 27- fabric needs to be re-positioned on sand filter side



BMP 28



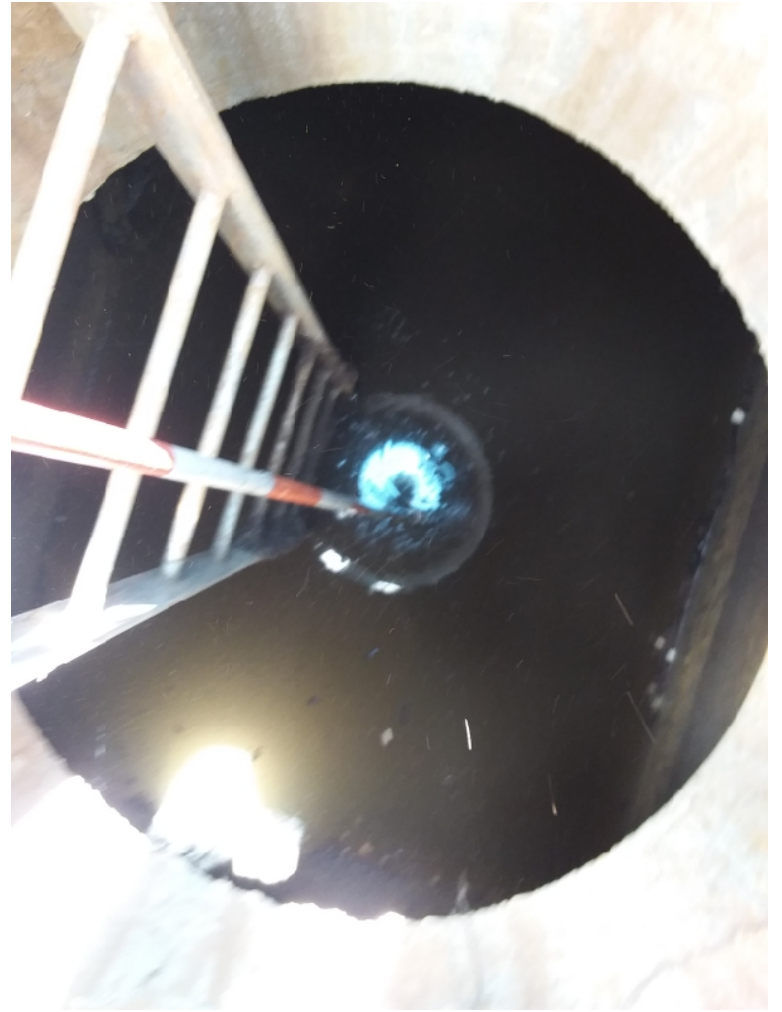
BMP 28- dewater chamber and remove from far side of weir wall



BMP 28- remove 3" of sediment accumulation from that is on top of fabric layer



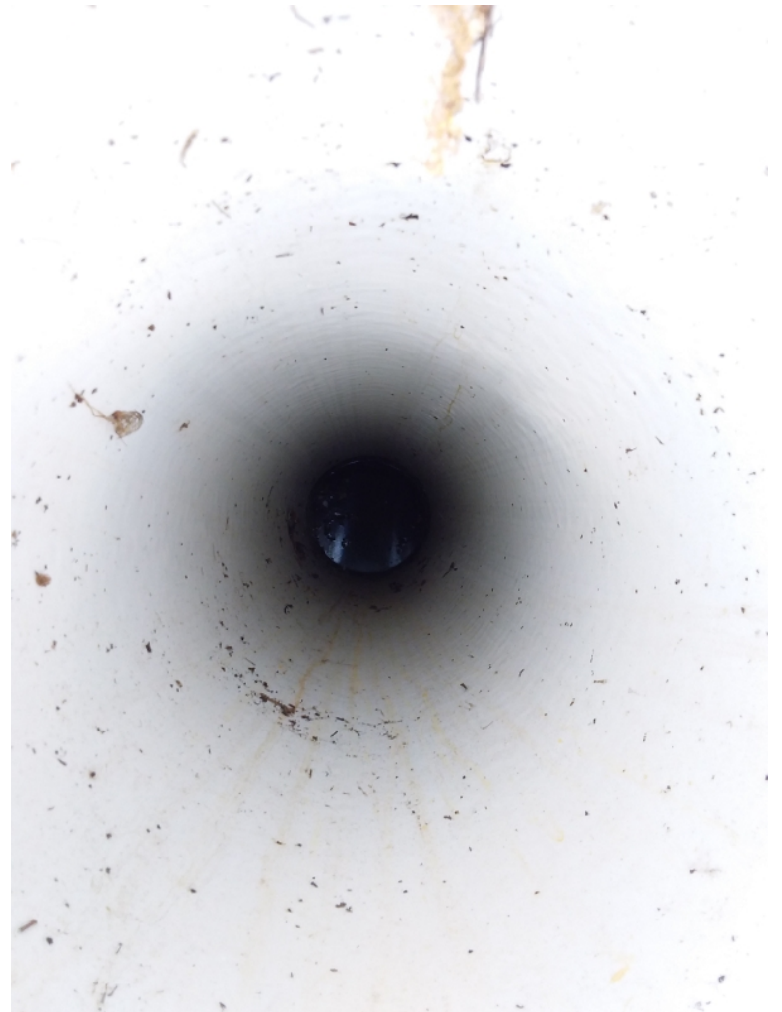
BMP 28



BMP 28- dewater and remove sediment accumulation (approximately 12")



BMP 36



BMP 36: 16" of water standing in maintenance port



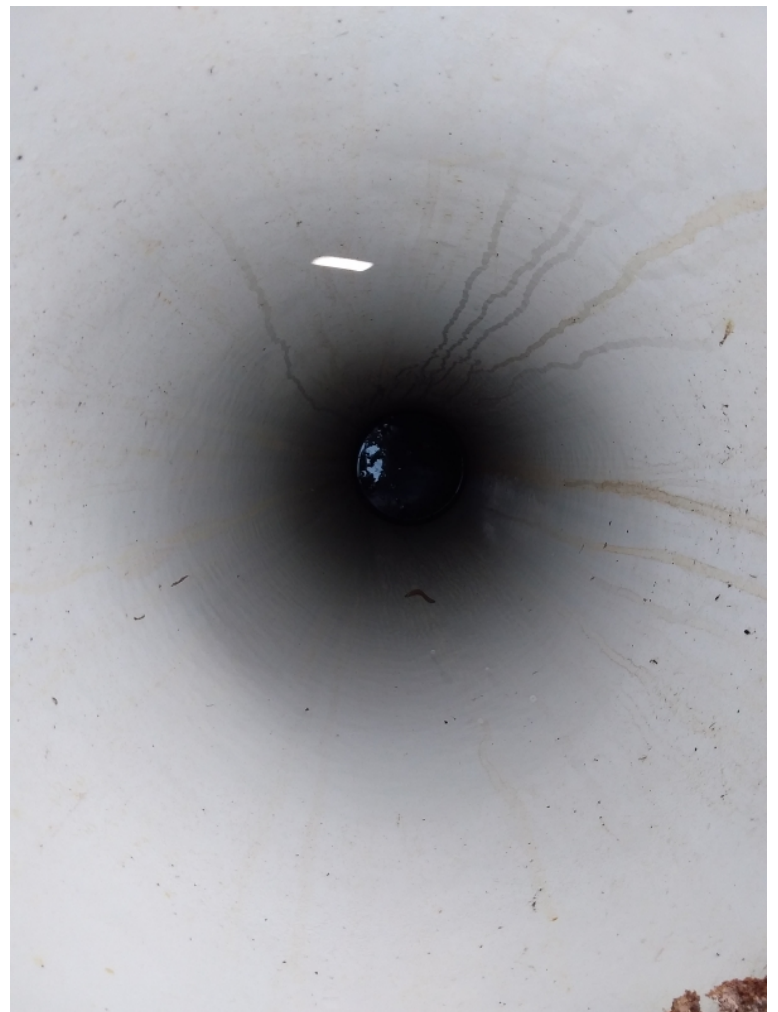
BMP 36



BMP 36: 16" of water standing in maintenance port



BMP 36



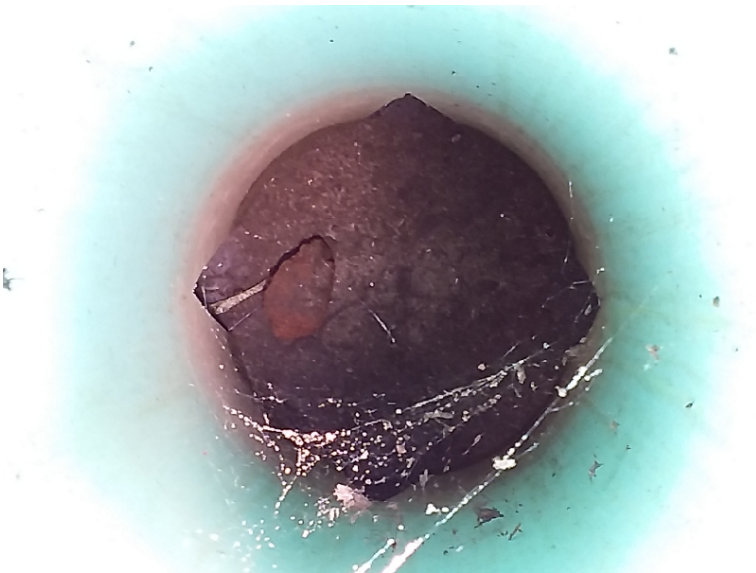
BMP 36: 16" of water standing in maintenance port



BMP 37



BMP 37



BMP 37- minimal sediment found inside maintenance port



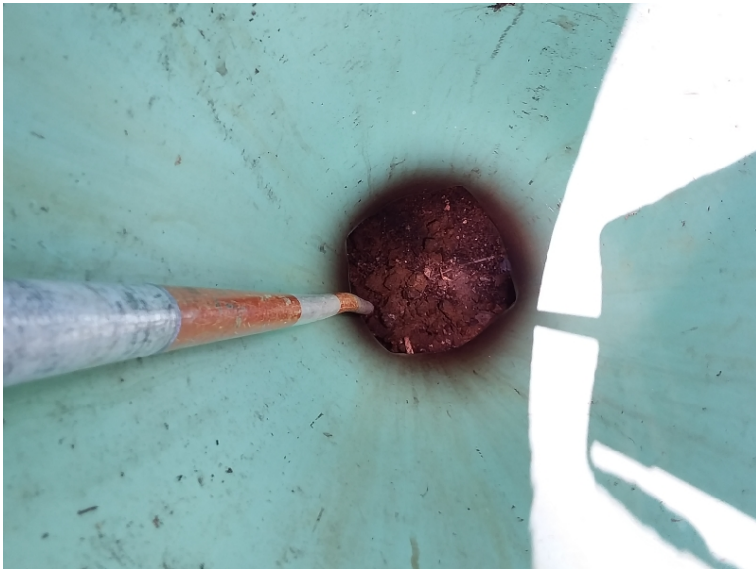
BMP 38



BMP 38- minimal sediment and gravel found in maintenance port



BMP 39



BMP 39- minimal sediment and gravel found in maintenance port



BMP 40



BMP 40



BMP 40



BMP 40



BMP 40

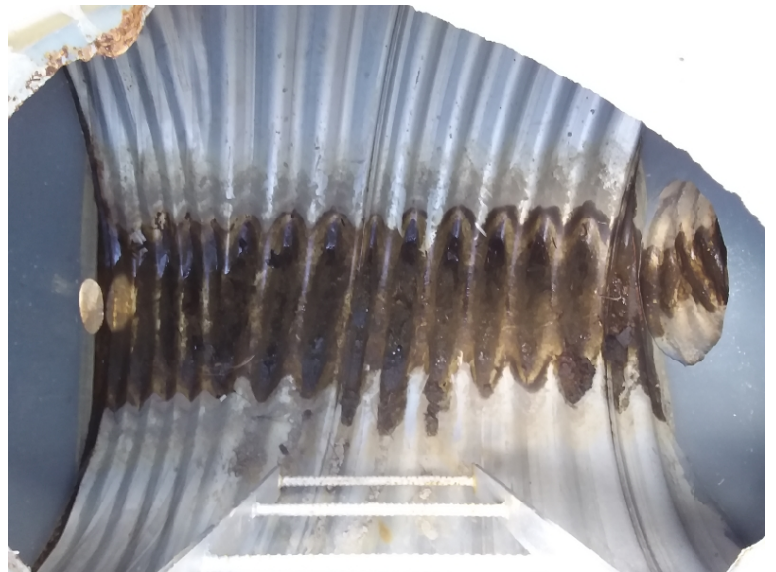


BMP 40- outlet manholes

BMP 40



BMP 40- all floatables, debris, and sediment removed



BMP 40- low flow orifice blockage was removed



BMP 50



BMP 50- trace amounts of sediment



BMP 50



BMP 50



BMP 50- trace amounts of sediment



BMP 50- low flow orifice is clear



STORMWATER MANAGEMENT

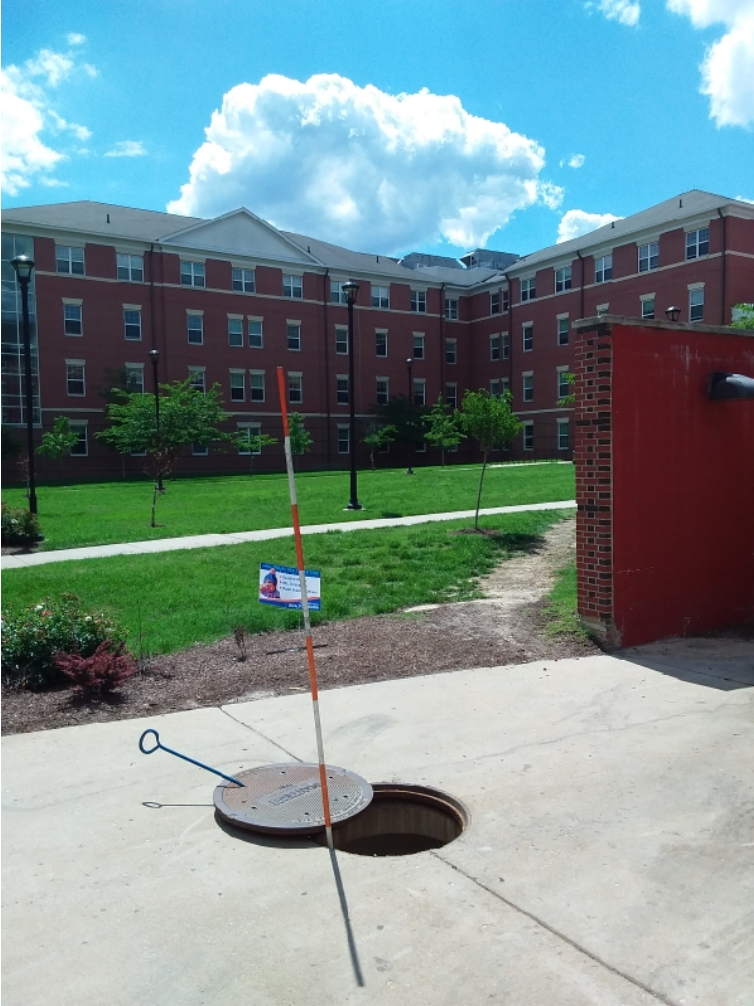
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CUSTOMER	SERVICE LOCATION
Timmons Group Sheila Reeves 1001 Boulders Parkway, Suite 300 Richmond VA 23225 (804) 200-6544	VSU 1 Hayden Drive Petersburg VA 23806

JOB DETAILS	Inspection of Stormfilters Units 22, 23, 35, 47, 48, 49
--------------------	--

COMPLETION NOTES	Completed inspections and checklists for StormFilters. BMP units: 22, 23, 35, 47, 48, 49
-------------------------	---

PICTURES



BMP 22



BMP 22



BMP 22- remove accumulated sediment for next maintenance visit



BMP 23



BMP 23



BMP 23: minimal sediment accumulation



BMP 35



BMP 35: minimal sediment



BMP 47



BMP 47



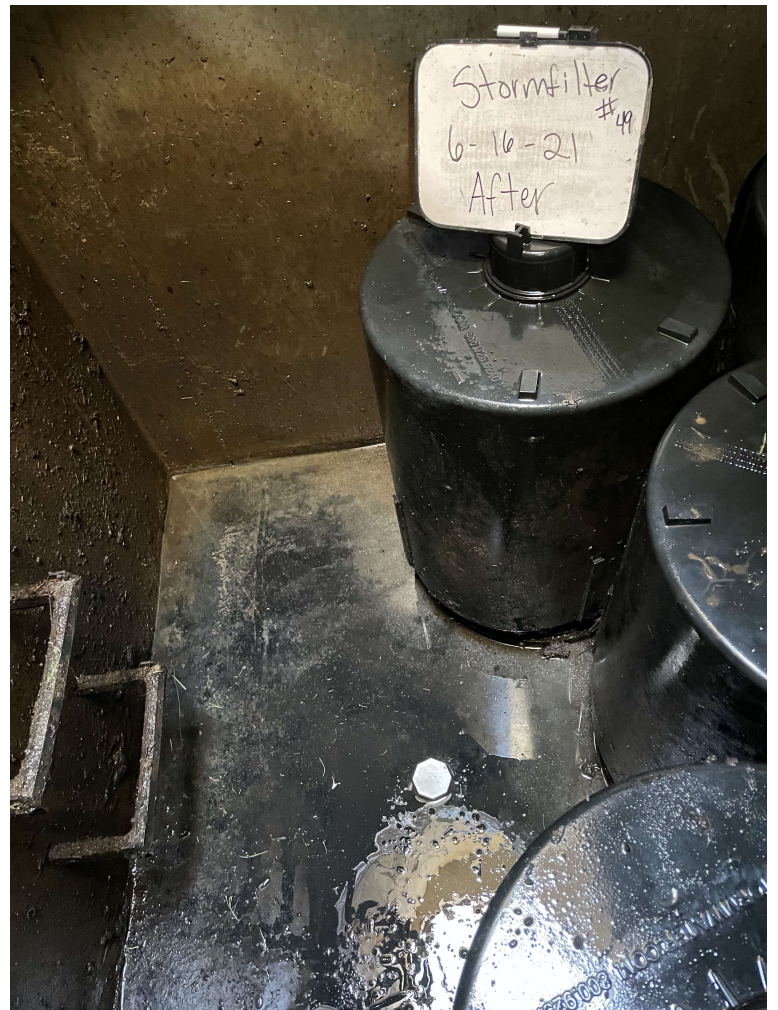
BMP 48



BMP 48



BMP 49



BMP 49



STORMWATER MANAGEMENT

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CUSTOMER	SERVICE LOCATION
Timmons Group Sheila Reeves 1001 Boulders Parkway, Suite 300 Richmond VA 23225 (804) 200-6544	VSU 1 Hayden Drive Petersburg VA 23806

JOB DETAILS	Inspection of Surface Units 29, 30, 46
--------------------	---

COMPLETION NOTES	Completed inspections and checklists for Surface BMPs. BMP units: 29, 30, 46
-------------------------	---

PICTURES



BMP 29



BMP 29



BMP 29



BMP 30- inlet channel



BMP 30- erosion occurring throughout inlet channel



BMP 30- erosion occurring behind inlet structure and headwall that flows into forebay



BMP 30- cattails along the aquatic bench surrounding the entire pond and duck weed has taken over the surface water



BMP 30- emergency spillway



BMP 46



BMP 46



BMP 46



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Timmons Group Sheila Reeves 1001 Boulders Parkway, Suite 300 Richmond VA 23225 (804) 200-6544	VSU 1 Hayden Drive Petersburg VA 23806

JOB DETAILS	Inspection of Sand Filter Unit 31 Delaware Sand Filter
--------------------	---

COMPLETION NOTES	Cpmpeted inspection and checklist of BMP 31 Sand Filter.
-------------------------	--

PICTURES



BMP 31



BMP 31: sediment chamber side- very little accumulation



BMP 31: sand filter side- no sediment noted



STORMWATER MANAGEMENT

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JOB DETAILS	Inspection of Sorbtive Filter Units 32, 33, 34
--------------------	---

COMPLETION NOTES	Completed inspection and checklists for Sorbtive Filters. BMP Units: 32, 33, 34
-------------------------	--

PICTURES



BMP 32



BMP 32



BMP 32- minimal sediment



BMP 33- recycle trash can was sitting on top of lid and had to be uncovered with 2" of mulch on top of entire manhole lid



BMP 33- some mulch and other debris found



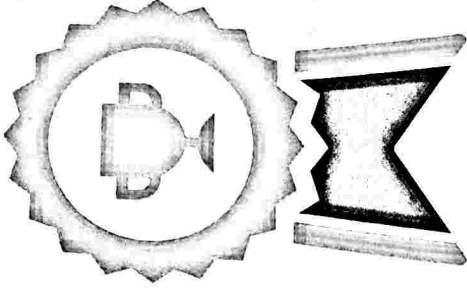
BMP 34

BMP 34



BMP 34- minimal sediment

Appendix MCM 6



Certificate

SPCC & ODCP TRAINING

awarded to

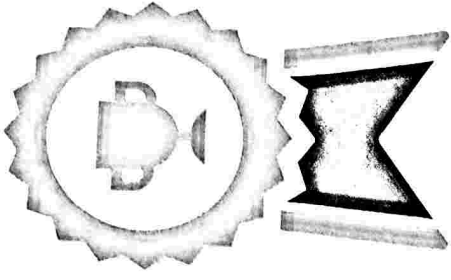
Glenn Nesgoda

Virginia State University SPCC and ODCP Training

David Weddle / Environmental Manager

Name / Title of Presenter

Date



Certificate

SPCC & ODCP TRAINING

awarded to

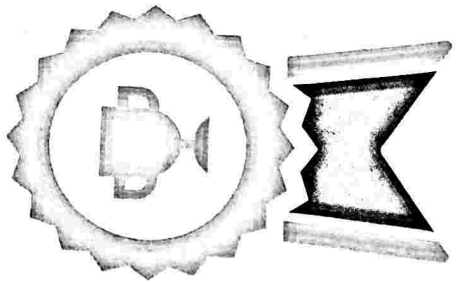
Kenneth Roberts

Virginia State University SPCC and ODCP Training

David Weddle / Environmental Manager

Name / Title of Presenter

Date



Certificate

SPCC & ODCP TRAINING

awarded to

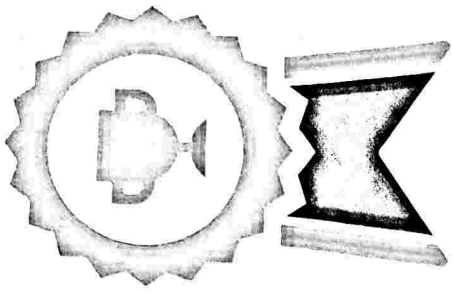
Mark Adams

Virginia State University SPCC and ODCP Training

David Weddle / Environmental Manager

Name / Title of Presenter

Date



Certificate

SPCC & ODCP TRAINING

awarded to

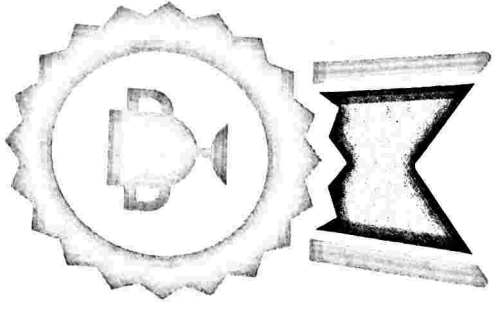
Melvin Trapp

Virginia State University SPCC and ODCP Training

David Weddle / Environmental Manager

Name / Title of Presenter

Date



Certificate

SPCC & ODCP TRAINING

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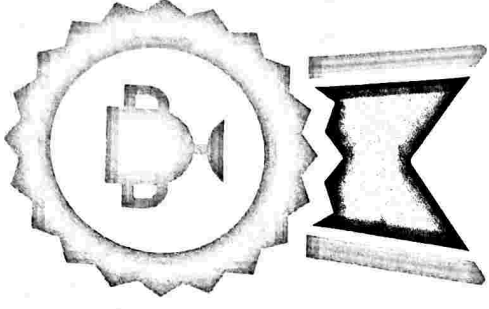
Steve Price

Virginia State University SPCC and ODCP Training

David Weddle / Environmental Manager

Name / Title of Presenter

Date



Certificate

SPCC & ODCP TRAINING

awarded to

Chris Sabree

Virginia State University SPCC and ODCP Training

David Weddle / Environmental Manager

Name / Title of Presenter

7/16/20

Date

Spill Prevention 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 AST's			
Table 1			
Tank Type	Maximum Storage Capacity (gallons)	Contents	Location and Identification Number
Double-Walled Horizontal AST	10,000	# 2 oil	Heating Plant AST-1
Double-Walled Horizontal AST	10,000	# 2 oil	Heating Plant AST-2
Double-Walled Horizontal AST	10,000	# 2 oil	Heating Plant AST-3
Double-Walled Horizontal AST	10,000	# 2 oil	Heating Plant AST-4
Double-Walled Horizontal ConVault AST	1,000	# 2 Oil (Diesel Fuel)	Jones Dining Hall

Heating Plant ASTs



Heating Plant AST Bunker



Fuel Transfer and Inventory Control

- ASTs are equipped with high visibility liquid level gauges and audible overflow 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

Fuel Refill Station



Spill Kit



Fuel Oil Delivery Checklist

Fuel Oil Delivery Checklist

Product: _____ Delivery Date: _____

Quantity: _____ Storage Tank No.(s) _____

Vendor/Transporter Name: _____

Prior to starting the delivery process, verify the following:

1. Material being delivered agrees with the type of fuel needed for that tank and equipment (#2 oil for the heating plant and # 2 oil (Diesel fuel) for Emergency Generators). (must be <0.5% sulfur for 2 oil for the heating plant, must be <0.0015% by weight (<15ppmw) sulfur for the generators.
2. Check the level gage on the tank that is being filled to ensure that there is sufficient capacity in the tank to safely accept the quantity of fuel being delivered.
3. Check flexible hoses for integrity, deterioration or leaks.
4. Check the unloading area for integrity, deterioration or leaks.
5. Check for improper deployment and location of portable/temporary 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 tanks weekly and fill out the Weekly Inspection Log

Registration of the Above Ground Fuel Storage Tanks with the DEQ requires that all ASTs be inspected weekly.

AST-1	# 2 oil	AST-5	# 2 diesel
AST-2	# 2 oil	Generator Tank	# 2 diesel
AST-3	# 2 oil		
AST-4	# 2 oil		

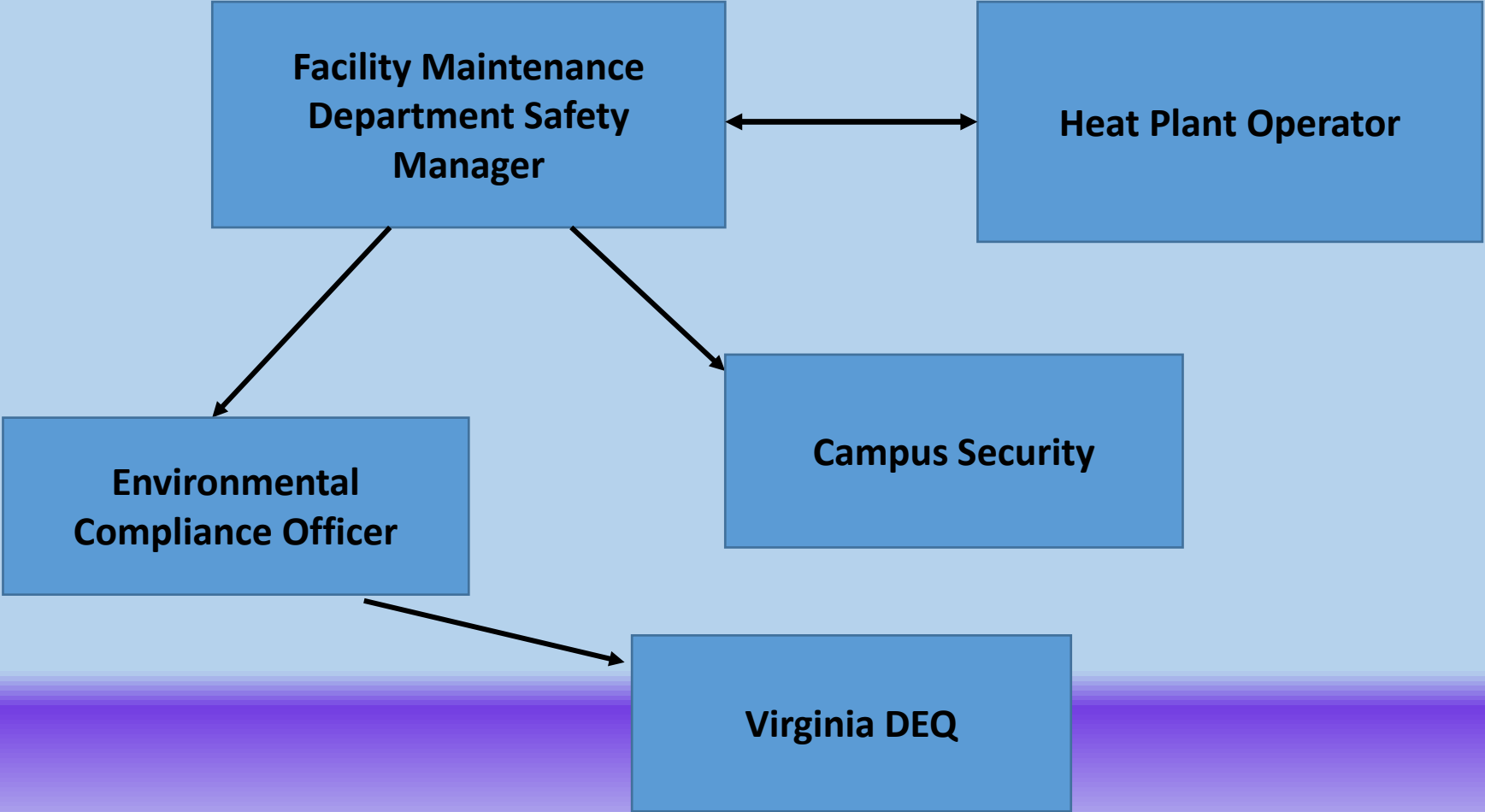
1. *Check AST 1-4 and the fuel storage room containment:*

- Are drip marks apparent? Yes[] No []
- Is there apparent discoloration? Yes[] No []
- Is there any visible corrosion? Yes[] No []
- Are there any visible cracks? Yes[] No []
- Are there any puddles containing material? Yes[] No []

2. *Check Containment for The Following:*

- Are there any visible cracks? Yes[] No []

Spill Procedures - Notifications



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

Good Housekeeping Practices

- Do not dispose of leaves, grass clippings, tree trimming, oil, fuel, sediment or any other pollutant into a storm drain or water body
- Identify storm drain inlets at or near facility to notify employees and contractors not to dispose any materials or wastes
- Wash down and hose down equipment/vehicles in approved areas
- Use oil/water separators to eliminate or minimize oil and grease pollution of stormwater runoff
- Install erosion and sediment controls where necessary