
CENTRAL STATE HOSPITAL

Dinwiddie, Virginia

Municipal Separate Storm Sewer System
Annual Report

For

General Permit No. VAR04006

Permit Year

July 1, 2018 through June 30, 2019

This annual report is submitted in accordance with 9VAC25-890-40 as part of the requirement for permit coverage to discharge stormwater to surface waters of the Commonwealth of Virginia consistent with the VAR04 General Permit effective date November 1, 2018.

Submitted: October 2, 2019

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ACRONYMS

BMP	Best Management Practices
CSH	Central State Hospital
DEQ	Virginia Department of Environmental Quality
ESC	Erosion and Sediment Control
MCM	Minimum Control Measure
MS4	Municipal Separate Storm Sewer System
NMP	Nutrient Management Plan
POC	Pollutant of Concern
SWM	Stormwater Management
SWPPP	Stormwater Pollution Prevention Plan
TMDL	Total Maximum Daily Load
VPDES	Virginia Pollution Discharge Elimination System
WLA	Wasteload Allocation

1.0 GENERAL ANNUAL REPORTING REQUIREMENTS

1.1. General Information (Part I.D.2.a)

Permittee Name: Central State Hospital

System Name: Department of Behavioral Health and Developmental Services

Permit Number: VAR040006

1.2. Reporting Period (Part I.D.2.b)

The reporting period for which the annual report is being submitted:

July 1, 2018 through June 30, 2019

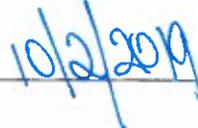
1.3. Signed Certification (Part I.D.2.c)

A signed certification as per 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 ensure 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."

Printed Name: Andrew Conti

Title: Director of Physical Plant Services

Signature:  Date: 

1.4. Reporting for MCMs #1 - #6 (Part I.D.2.d)

Include information for each annual reporting item specified in Part I.E:

Reporting information for each Minimum Control Measure is provided in Section 2.0.

1.5. Evaluation of the MS4 Program Implementation (Part I.D.2.e)

An evaluation of the MS4 program implementation, including a review of each MCM to determine the MS4 program's effectiveness and whether changes to the MS4 Program Plan are necessary:

An evaluation for each Minimum Control Measure is provided in Section 2.0. Changes that are necessary to be made to the MS4 Program Plan are summarized in Table 1.

Table 1: Summary of MS4 Program Plan Changes

No changes to the Program Plan document itself are necessary. However, CSH will work on adding Good Housekeeping contract language to contracts and will street sweep in the future.

2.0 MINIMUM CONTROL MEASURES

2.1. MCM #1: Public Education and Outreach

2.1.1. High Priority Stormwater Issues (Part I.E.1.g(1))

A list of high-priority stormwater issues addressed in the public education and outreach program:

A list of high-priority stormwater issues addressed in public education and outreach program is provided in Table 2.

2.1.2. High Priority Stormwater Issue Communication Strategies (Part I.E. 1.g(2))

A list of strategies used to communicate each high-priority stormwater issue:

A list of strategies used to communicate each high-priority stormwater issue is provided in Table 2. Appendix A includes documentation of the communication efforts described in Table 2.

Table 2: High Priority Stormwater Issues				
#	Stormwater Issue	Strategy	Communication	Completion Status
1	Public education on stormwater runoff	Media Materials	Brochure distributed via email	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
2	TMDLs and Local Impaired Waters	Speaking engagements	Presentation to staff	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
3	Motor oil from vehicles in parking lot	Media materials	Flyer distributed via email	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No

2.1.3. MCM #1 Evaluation (Part I.D.2.e)

Review the MCM to determine the MS4 Program’s effectiveness and whether or not changes to the MS4 Program Plan are necessary:

Were all MCM #1 communications accomplished to the intended public audience indicated in the MS4 Program Plan? Yes (Effective) No (Ineffective)

If any communications were determined to be ineffective, describe changes necessary to the MS4 Program. Include the response in Section 1.5.

2.2. MCM #2: Public Involvement and Participation

2.2.1. Public Input Summary (Part I.E.2.f(1))

A summary of any public input on the MS4 program received (including stormwater complaints) and responses:

If any MS4 Program inputs or stormwater complaints were received from the public, were responses provided?

Yes (Refer to Table 3) No Not Applicable (No inputs/complaints)

Table 3: Public Input or Complaints and Responses

Input/Complaint :

Response:

2.2.2. MS4 Program Webpage (Part I.E.2.f(2))

A webpage address to the MS4 program and stormwater website:

The webpage address is <http://www.csh.dbhds.virginia.gov/StormwaterManPlan.html>

2.2.3. Public Involvement Activities Implemented (Part I.E.2.f(3))

A description of the public involvement activities implemented:

A description of the implemented public involvement activities is provided in Table 4.

2.2.4. Public Involvement Activity Metric and Evaluation (Part I.E.2.f(4))

A report of the metric as defined for each activity and an evaluation as to whether or not the activity is beneficial to improving water quality:

A report of the metric as defined for each activity and an evaluation as to whether or not the activity is beneficial to improving water quality is provided in Table 4. Appendix B includes documentation of the public involvement activities.

Table 4: Public Involvement Activities Implemented			
Activity Description	Metric	Collaboration	Beneficial
Stream clean-up event	Completed	No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Stream clean-up event	Completed	No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Promote Local Citizen Group Event - August & November safety newsletter	Completed	No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Promote Local Citizen Group Event - Nature Conversancy volunteer email (Event 7/10/19)	Completed	No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No

2.2.5. MS4 Collaboration (Part I.E.2.f(5))

The name of other MS4 permittees collaborated with in the public involvement opportunities:

If applicable, the name of other MS4 permittees collaborated with for any of the public involvement opportunities are provided in Table 4.

2.2.6. MS4 Program Plan BMP Measurable Goals

The MS4 Program Plan BMPs measurable goals are provided in Table 5.

Table 5: MS4 Program Plan BMP Measurable Goals for MCM #2		
BMP	Measurable Goal	Completeness Status
2.1	Was documentation of the public input or complaints on the MS4 program and MS4 Program Plan maintained?	<input type="checkbox"/> Yes (Refer to Appendix B for documentation) <input type="checkbox"/> No <input checked="" type="checkbox"/> Not Applicable (No input/complaints)
2.1	Is the effective MS4 permit and coverage letter on the webpage?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
2.1	Is the most current MS4 Program Plan on the webpage?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
2.1	Is the annual report for each year of the term covered by this permit no later than 30 days after submittal to the department on the webpage?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Not Applicable (First permit year)

2.1	Is there a mechanism for the public to report potential illicit discharges, improper disposal or spills to the MS4, complaints regarding land disturbing activities or other potential stormwater pollution concerns on the webpage?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
2.1	Is there a method for how the public can provide input of the MS4 Program Plan on the webpage?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No

2.2.7. MCM #2 Evaluation (Part I.D.2.e)

Review the MCM to determine the MS4 Program’s effectiveness and whether or not changes to the MS4 Program Plan are necessary:

Were all MCM #2 responses Yes or Not Applicable?

Yes (Effective) No (Ineffective) No (Program plan still effective. Central State Hospital will put the MS4 General Permit and coverage letter on the website once obtaining an additional copy from DEQ.)

If any items are determined to be ineffective, describe changes necessary to the MS4 Program. Include the response in Section 1.5.

2.3. MCM #3: Illicit Discharge Detection and Elimination

2.3.1. MS4 Map and Information Table (Part I.E.3.e(1))

A confirmation statement that the MS4 map and information table have been updated to reflect any changes to the MS4 occurring on or before June 30 of the reporting year:

Were the MS4 storm sewer map and outfall information table updated to reflect any changes to the MS4 occurring on or before June 30 of the reporting year? Yes No

2.3.2. Dry Weather Screening (Part I.E.3.e(2))

The total number of outfalls screened during the reporting period as part of the dry weather screening program:

Were outfalls screened during the reporting period? Yes No

The number of outfalls screened during the reporting yard as part of the dry weather screening program is 28. This represents 100% of the total outfalls.

2.3.3. Illicit Discharges (Part I.E.3.e(3))

A list of illicit discharges to the MS4 including spills reaching the MS4:

Were there any illicit discharges to the MS4 including spills reaching the MS4?

Yes (Refer to Table 6) Not Applicable (No illicit discharges)

Table 6: Illicit Discharges

Illicit Discharge

Part I.E.3.e(3)(a) Source:

Part I.E.3.e(3)(b) Date Observed & Date Reported:

Part I.E.3.e(3)(c) Detected during Screening, Reported by Public or Other (Describe):

Part I.E.3.e(3)(d) Investigation Resolution:

Part I.E.3.e(3)(e) Description of Follow-up Activities:

Part I.E.3.e(3)(f) Date Investigation Closed:

2.3.4. MS4 Program Plan BMP Measurable Goals

The MS4 Program Plan BMPs measurable goals are provided in Table 7.

Table 7: MS4 Program Plan BMP Measurable Goals for MCM #3		
BMP	Measurable Goal	Completeness Status
3.1	Was a GIS compatible shapefile submitted to DEQ?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
3.1	Was written notification provided to any downstream adjacent MS4 of any known interconnection established or discovered during the permit reporting year?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> Not Applicable (No new or discovered) <input type="checkbox"/> No
3.2	Do all staff have access to the Standards of Conduct for Employees?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
3.3	Were illicit discharge detection and elimination procedures implemented, enforced and documentation maintained?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No

2.3.5. MCM #3 Evaluation (Part I.D.2.e)

Review the MCM to determine the MS4 Program’s effectiveness and whether or not changes to the MS4 Program Plan are necessary:

Were all MCM #3 responses Yes or Not Applicable?

Yes (Effective) No (Ineffective)

If any items are determined to be ineffective, describe changes necessary to the MS4 Program. Include the response in Section 1.5.

2.4. MCM #4: Construction Site Stormwater Runoff Control

2.4.1. Implementation of Virginia ESC Law and Regulations (Part I.E.4.a(3))

The MS4 has not developed standards and specifications in accordance with the Virginia Erosion and Sediment Control Law and Virginia Erosion and Sediment Control Regulations. The MS4 inspects all land disturbing activities as defined in § 62.1-44.15:51 of the Code of Virginia that result in the disturbance of 10,000 square feet or greater, or 2,500 square feet or greater in accordance with areas designated under the Chesapeake Bay Preservation Act, as follows:

- (a) During or immediately following initial installation of erosion and sediment controls;
- (b) At least once per every two-week period;
- (c) Within 48 hours following any runoff producing storm event; and
- (d) At the completion of the project prior to the release of any performance bond.

2.4.1.1. Conforming Land Disturbance Projects (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 Virginia Erosion and Sediment Control Law and Virginia Erosion and Sediment Control Regulations:

Were all land disturbing projects that occurred during the reporting period conducted in accordance with the Virginia Erosion and Sediment Control Law and Virginia Erosion and Sediment Control Regulations?

Yes No (Refer to Table 8) Not Applicable (No land disturbing projects.)

2.4.1.2. Non-Conforming Land Disturbance Projects (Part I.E.4.d(1)(b))

If one or more of the land disturbing projects were not conducted with the Virginia Erosion and Sediment Control Law and Virginia Erosion and Sediment Control Regulations, an explanation as to why the projects did not conform:

An explanation as to why a project did not conform to the Virginia ESC Law and Regulations are provided in Table 8.

Table 8: Project(s) Not in Conformance with Virginia ESC Law and Regulations

Project Name:

Explanation:

2.4.2. Site Stormwater Runoff Inspections (Part I.E.4.d(2))

Total number of inspections conducted:

The total number of site stormwater runoff inspections conducted for regulated land disturbance activities in accordance with the Virginia Erosion and Sediment Control Law and Virginia Erosion and Sediment Control Regulations is 0.

2.4.3. Enforcement Actions (Part I.E.4.d(3))

The total number and type of enforcement actions implemented:

The total number of enforcement actions implemented is .

The total number of Notice of Violations issued is .

The total number of Stop Work Orders issued is .

2.4.4. MS4 Program Plan BMP Measurable Goals

The MS4 Program Plan BMPs measurable goals are provided in Table 7.

Table 9: MS4 Program Plan BMP Measurable Goals for MCM #3		
BMP	Measurable Goal	Completeness Status
4.1	Were Project implemented in accordance with the Department of General Services Construction Professional Services Manual?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Not Applicable (No land disturbances.)

2.4.5. MCM #4 Evaluation (Part I.D.2.e)

Review the MCM to determine the MS Program’s effectiveness and whether or not changes to the MS4 Program Plan are necessary:

Was the response to whether all land disturbing projects that occurred during the reporting period conducted in accordance with the current Virginia erosion and sediment control law and regulations Yes?

Yes (Effective) No (Ineffective) Not Applicable (No land disturbances.)

If any items are determined to be ineffective, describe changes necessary to the MS4 Program. Include the response in Section 1.5.

2.5. MCM #5: Post-Construction Stormwater Management

2.5.1. Implementation of Virginia SWM Act and Regulations (Part I.E.5.a(4))

The MS4 has not developed standards and specifications in accordance with the Virginia Stormwater Management Act and Virginia Stormwater Management Regulations. The MS4 implements a post-construction stormwater runoff control program through compliance with 9VAC25-870 and with the implementation of a maintenance and inspection program consistent with Part I.E.5.b.

2.5.2. Stormwater Management Facility Inspections (Part I.E.5.i(2))

Total number of inspections conducted on stormwater management facilities owned or operated by the permittee:

Were inspections conducted on stormwater management facilities during the reporting year? Yes No

The total number of inspections conducted on stormwater management facilities is 1.

2.5.3. Stormwater Management Facility Maintenance (Part I.E.5.i(3))

A description of significant maintenance, repair, or retrofit activities performed on the stormwater management facilities owned or operated by the permittee to ensure it continues to perform as designed. This does not include routine activities such as grass mowing or trash collection:

Were significant maintenance, repair, or retrofit activities performed on any stormwater management facilities (SWM) during the reporting year?

Yes No Not Applicable (No maintenance required.)

A description of significant maintenance, repair, or retrofit activities performed on the stormwater management facilities owned or operated by the MS4 to ensure it continues to perform as designed is provided in Table 9.

Table 10: Maintenance Activities Performed on Stormwater Management Facilities	
Stormwater Management Facility	Significant Maintenance Activity
Detention Basin #1	Cattails cleaned out.

2.5.4. Virginia Construction Stormwater General Permit Database (Part I.E.5.i(4))

A confirmation statement that the permittee submitted stormwater management facility information through the Virginia Construction Stormwater General Permit database for those land disturbing activities for which the permittee was required to obtain coverage under the General VPDES Permit for Discharges of Stormwater from Construction Activities in accordance with Part I E 5 f or a statement that the Permittee did not complete any projects requiring coverage under the General VPDES Permit for Discharges of Stormwater form Construction Activities:

Stormwater management facility information for stormwater facilities installed after July 1, 2014 was submitted through the Virginia Construction Stormwater General Permit database for land disturbing activities requiring a General VPDES Permit for Discharges of Stormwater from Construction Activities?

Yes No Not Applicable (Not a VSMP authority.)

2.5.5. DEQ BMP Warehouse (Part I.E.5.i(5))

A confirmation statement that the permittee electronically reported BMPs using the DEQ BMP Warehouse in accordance with Part I E 5 g and the date on which the information was submitted:

No later than October 1 of each year, stormwater management facilities and BMPs implemented to meet a TMDL load reduction between July 1 and June 30 of each year were electronically reported using the DEQ BMP Warehouse for any practices not reported in accordance with Part I.E.5.f (requirement 2.5.4) including stormwater management facilities from land disturbing activities less than one acre in accordance with the Chesapeake Bay Preservation Act regulations and for which a General VPDES Permit for Discharges of Stormwater from Construction Activities was not required?

Yes, Date Submitted: No Not Applicable (No SWM facilities constructed or BMPs implemented.)

2.5.6. MS4 Program Plan BMP Measurable Goals

The MS4 Program Plan BMPs measurable goals are provided in Table 10.

Table 11: MS4 Program Plan BMP Measurable Goals for MCM #5		
BMP	Measurable Goal	Completeness Status
5.1	Was the post-construction stormwater management inspection and maintenance program implemented in accordance with Part I.E.5.b?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
5.2	Was the stormwater management facility tracking database updated?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> Not Applicable (No new or discovered) <input type="checkbox"/> No

2.5.7. MCM #5 Evaluation (Part I.D.2.e)

Review the MCM to determine the MS4 program’s effectiveness and whether or not changes to the MS4 Program Plan are necessary:

Were all MCM #5 responses Yes or Not Applicable?

Yes (Effective) No (Ineffective)

If any items are determined to be ineffective, describe changes necessary to the MS4 Program. Include the response in Section 1.5.

2.6. MCM #6: Pollution Prevention and Good Housekeeping

2.6.1. Operational Procedures (Part I.E.6.q(1))

A summary of any operational procedures developed or modified in accordance with Part I E 6 a during the reporting period:

Were any operational procedures developed or modified in accordance with Part I E 6 a during the reporting period?

Yes (Refer to Table 11) No Not Applicable (No modifications necessary.)

Table 12: Good Housekeeping Operational Procedures Developed or Modified
1. The Points of Contact list was removed from the manual's appendix and placed on the SWPPP map. The Environment of Care Director name and telephone number was placed on the manual cover.
2. The Compliance Evaluation Form and SWPPP map were removed from the manual's appendices and incorporated into the manual via reference.
3. Training was changed from annually to biennially.
4. The training quiz was removed from the program as a tool to measure effectiveness.
5. The requirements for modifying the Program was removed in accordance with the 2019-2023 MS4 General Permit.
6. The language was changed to better explain the difference between a good housekeeping action that prevents an IDDE versus a reportable IDDE, which forms to use, who to report to in each scenario,
1. The Points of Contact list was removed from the manual's appendix and placed on the SWPPP map. The Environment of Care Director name and telephone number was placed on the manual cover.
1. The Points of Contact list was removed from the manual's appendix and placed on the SWPPP map. The Environment of Care Director name and telephone number was placed on the manual cover.
1. The Points of Contact list was removed from the manual's appendix and placed on the SWPPP map. The Environment of Care Director name and telephone number was placed on the manual cover.

2.6.2. Newly Developed SWPPPs (Part I.E.6.q(2))

A summary of any new SWPPPs developed in accordance Part I E 6 c during the reporting period:

Were any new SWPPPs developed in accordance Part I E 6 c during the reporting period?

Yes (Refer to Table 12) No Not Applicable (No new high priority facilities)

Table 13: New SWPPPs Developed	
SWPPP Name	SWPPP Address

2.6.3. Modified or Delisted SWPPPs (Part I.E.6.q(3))

A summary of any new SWPPPs modified in accordance with Part I E 6 f or the rationale of any high priority facilities delisted in accordance with Part I E 6 h during the reporting period:

Were any new SWPPPs modified after an unauthorized discharge, release or spill reported?
 Yes (Refer to Table 13) No Not Applicable (No illicit discharges)

Were any high priority facilities delisted in accordance with Part I E 6 h during the reporting period? Yes (Refer to Table 13) No Not Applicable (No delisted high priority facility)

If yes, rationale is provided for any high priority facilities delisted in accordance with Part I E 6 h during the reporting period in Table 13.

Table 14: SWPPPs Modified or Delisted	
SWPPPs Modified/Delisted	Rationale for Delisting

2.6.4. Newly Developed Nutrient Management Plans (Part I.E.6.q(4))

A summary of new turf and landscape nutrient management plans developed:

Were any new turf and landscape nutrient management plans developed?
 Yes (Refer to Table 14) No Not Applicable (No new NMPs. CSH does not apply nutrients.)

2.6.4.1. Nutrient Management Plan Acreage (Part I.E.6.q(4)(a))

The location and the total acreage of each land area:

If yes, the location and total acreage of the land area for any newly developed nutrient management plan is provided in Table 14.

2.6.4.2. Nutrient Management Plan Approval Date (Part I.E.6.q(4)(b))

The date of the approved nutrient management plan:

If yes, the approval date of any newly developed nutrient management plan is provided in Table 14.

Table 15: New Turf and Landscape Nutrient Management Plans		
Location	Total Acreages	Date Approved

2.6.5. Training Events (Part I.E.6.q(5))

A list of the training events conducted in accordance with Part I.E.6.m, including the following information:

Was training conducted? Yes (Refer to Table 15) No Not Applicable (Only required biennially.)

A list of training events conducted in accordance with Part I.E.6.m is provided in Table 15.

2.6.5.1. Training Dates (Part I.E.6.q(5)(a))

The date of the training event:

If yes, the date of the training event is provided in Table 15.

2.6.5.2. Quantity Trained (Part I.E.6.q(5)(b))

The number of employees who attended the training event:

If yes, the number of employees who attended the training event is provided in Table 15.

2.6.5.3. Training Objective (Part I.E.6.q(5)(c))

The objective of the training event:

If yes, the objective of the training event is provided in Table 15.

Table 16: Training Events		
Date	# of Attendees	Training Objective
6/18/2019	21	Good Housekeeping/TMDLs/SPCC

2.6.6. MS4 Program Plan BMP Measurable Goals

The MS4 Program Plan BMPs measurable goals are provided in Table 16.

Table 17: MS4 Program Plan BMP Measurable Goals for MCM #6		
BMP	Measurable Goal	Completeness Status
6.1	Was good housekeeping and pollution prevention biennial training conducted this reporting year?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> Not Applicable (Not required this reporting year) <input type="checkbox"/> No
6.1, 6.2	Was the annual comprehensive compliance evaluation conducted?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Applicable
6.2	Was the SWPPP reviewed within 30 days after an unauthorized discharge, release or spill reported?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> Not Applicable (No illicit discharges) <input type="checkbox"/> No
6.2	Was the SWPPP updated within 90 days after an unauthorized discharge?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> Not Applicable (No illicit discharges) <input type="checkbox"/> No
6.2	Were the MS4's properties reviewed this reporting year to determine if the properties meet the criteria of a high priority facility?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A (Only one property.)
6.3	Was the nutrient management plan (NMP) implemented through completion of application records?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> Not Applicable (No NMP.) <input type="checkbox"/> No
6.4	Were all signed contracts executed with contract good housekeeping and pollution prevention language?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No (Working on contract language.)
6.5	Did all signed contracts executed for pesticide and herbicide application maintain proof of certifications on file?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> Not Applicable <input type="checkbox"/> No
6.6	Did training occur and were proof of certifications maintained on file for employees performing pesticide and herbicide applications?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> Not Applicable <input type="checkbox"/> No

2.6.7. MCM #6 Evaluation (Part I.D.2.e)

Review the MCM to determine the MS4 Program's effectiveness and whether or not changes to the MS4 Program Plan are necessary:

Were all MCM #6 responses Yes or Not Applicable?

Yes (Effective) No (Ineffective) No (Plan is still effective. CSH will continue to work on incorporating pollution prevention language in contracts.)

If any items are determined to be ineffective, describe changes necessary to the MS4 Program. Include the response in Section 1.5.

3.0 TMDL SPECIAL CONDITIONS

3.1. Chesapeake Bay TMDL Action Plan

3.1.1. BMPs Implemented and Estimated POC Reductions (Part II.A.13.a)

A list of BMPs implemented during the reporting period but not reported to the DEQ BMP Warehouse in accordance with Part I E 5 g and the estimated reduction of pollutants of concern achieved by each and reported in pounds per year:

Were any BMPs implemented during the reporting period but not reported to the DEQ BMP Warehouse in accordance with Part I.E.5.g? Yes (Refer to Table 17) No

The estimated reduction of pollutants of concern achieved by each BMP reported in pounds per year is provided in Table 17.

Table 18: 2018-2019 POC Reductions			
BMP #1: Street Sweeping Using the Mass Loading Approach			
Required pounds of material swept	3,737.14 lbs.		
Provided pounds of material swept	0 lbs.		
	TN (lbs./yr.)	TP (lbs./yr.)	TSS (lbs./yr.)
Required 5% Reduction (lbs.) =	6.54	1.29	546.29
Provided 5% Reduction (lbs.) =	0	0	0

3.1.2. Nutrient Credits (Part II.A.13.b)

If the permittee acquired credits during the reporting period to meet all or a portion of the required reductions in Part II A 3, A 4, or A 5, a statement that credits were acquired:

Were credits acquired during the reporting period to meet all or a portion of the required reductions in Part II A 3, A 4, or A 5? Yes No Not Applicable (Not necessary.)

3.1.3. POC Cumulative Reduction Progress (Part II.A.13.c)

The progress, using the final design efficiency of the BMPs, toward meeting the required cumulative reductions for total nitrogen, total phosphorus, and total suspended solids:

The progress, using the final design efficiency of the BMPs, toward meeting the required 40% reductions for total nitrogen, total phosphorus, and total suspended solids is provided in Table 18.

Table 19: 2019 – 2023 Chesapeake Bay TMDL Action Plan Implementation Schedule			
Step	General Description	Measurable Goal	Completion Date
1	5% reduction requirement complete. Evaluate lbs. swept.	Completed tracking documentation.	Incomplete
2	5% reduction requirement complete. Make adjustments to frequency based on 2019 information obtained.	Completed tracking documentation with increase sweeping frequency.	July 2020
3	5% reduction requirement complete. Determine if 40% can be achieved w/ street sweeping alone. If not, evaluate alternate means to achieve 40% reduction. Secure funding for future implementation of new BMPs. Revise Action Plan accordingly.	Completed tracking documentation. If required, revise Action Plan.	July 2021
4	5% reduction requirement complete. Ensure means and methods are in place to meet 40% reduction including additional BMPs if necessary.	Completed tracking documentation and support documentation from any new BMPs employed to meet 40% reduction.	July 2022
5	Complete 40% reduction requirement with selected means and methods.	Completed tracking documentation and support documentation from any new BMPs employed to meet 40% reduction.	July 2023
6	Report on Chesapeake Bay TMDL 40% reduction achievement.	Record results in Annual Report.	October 2023

3.1.4. Next Reporting Period Planned BMPs (Part II.A.13.d)

A list of BMPs that are planned to be implemented during the next reporting period:

BMPs that are planned to be implemented during the next reporting period is provided in Table 19.

Table 20: BMPs Planned for 2019-2020	
BMP #1: Street Sweeping	

3.1.5. Chesapeake Bay TMDL Action Plan Measurable Goals

The Chesapeake Bay TMDL Action Plan measurable goals are provided in Table 20.

Table 21: Chesapeake Bay TMDL Action Plan Measurable Goals		
#	Measurable Goal	Completeness Status
1	Were public comments considered during the required 15-day comment period?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> Not Applicable (Not required this reporting year.) <input type="checkbox"/> No
2	Were cost effective BMPs selected to support model quantification to achieve the required pollutant reductions?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
3	Was the required pollutant reduction reached for this reporting year?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

3.1.6. Chesapeake Bay TMDL Action Plan Implementation Evaluation (Part I.D.2.e)

Review the TMDL Special Condition to determine the Chesapeake Bay TMDL Action Plan’s effectiveness and whether or not changes to the Chesapeake Bay TMDL Action Plan are necessary:

Were all Chesapeake Bay TMDL Special Condition responses Yes or Not Applicable?

Yes (Effective) No (Ineffective, street sweeping not completed during the reporting year.)

If any items are determined to be ineffective, describe changes necessary to the MS4 Program. Include the response in Section 1.5.

3.2. Local TMDL Action Plan

3.2.1. Local TMDL Implementation (Part II.B.9)

Central State Hospital has no local TMDL WLAs.

Appendix A: Documentation of Public Education and Outreach Activities

Stormwater Issues?

Flooding: Stormwater runoff from intense rainfall can at times exceed the carrying capacity of the stormwater pipe system, creating a backup in the system which can lead to the flooding of roads, yards, and structures.

Pollution: When rain falls, stormwater flows across grass and impervious surfaces such as sidewalks, driveways, parking lots, rooftops, and roads. It mobilizes contaminants such as animal waste, chemicals, pesticides, trash and sediment. These contaminants are then transported downstream to streams, rivers, and ultimately the ocean.

Water quality: Stormwater runoff is a leading cause of nutrient contamination, predominately responsible for algae blooms and low oxygen levels, which can result in fish kills and elimination of native vegetation.

Soil erosion: Uncontrolled stormwater rapidly increases the amount of water flowing into a stream, which can wash away stream banks and over time, cut streambeds down deeper to bedrock.



CSH's Stormwater Program

The U.S. Environmental Protection Agency (EPA) and the Virginia Department of Environmental Quality (DEQ) regulate stormwater and require most localities to implement and maintain a comprehensive stormwater management program. Central State Hospital (CSH) has a Municipal Separate Storm Sewer System (MS4) permit, which further obligates the hospital to manage their stormwater runoff and achieve an allocation of pollutant reductions. CSH is required to meet specific pollutant TMDL (total maximum daily load) reductions for nitrogen, phosphorus, and sediment. CSH is working to implement measures that improve water quality in its waterways. Some of these measures include:

- Street sweeping to help prevent debris and sediment from being washed into the storm system and waterways
- Storm drain inspections to screen for illicit discharges
- Employee and public education on pollutants in stormwater runoff to help determine pollutant sources and increase public awareness.

Please visit CSH's stormwater website at <http://www.csh.dbhds.virginia.gov/DEQRports.html> for more detailed information or contact the Director of Physical Plant Services.

Stormwater Runoff Impacts



For additional information regarding stormwater or to report an illicit discharge, please contact the Director of Physical Plant Services.

What Is Stormwater Runoff?

Stormwater runoff is precipitation such as rain or snow that does not soak into the ground. Impervious surfaces such as driveways, parking lots, roofs, sidewalks, and roads prevent stormwater runoff from naturally soaking into the ground. Stormwater runoff flows over vegetated areas and impervious surfaces into the storm sewer system and ultimately a natural waterway.



Why is Stormwater Important?

As stormwater runoff flows over vegetated areas and impervious surfaces, it picks up pollutants such as pesticides, pet waste, oil, and debris along the way. These pollutants are then carried through the storm sewer system and discharged to natural waterways. Urban stormwater runoff is the number one source of surface water pollution in the United States, causing public safety hazards, health risks, and environmental threats.



What is an Illicit Discharge?

Any substance other than stormwater that enters the storm sewer system or receiving waters is considered an illicit discharge. Many illicit discharge sources originate from maintenance facilities or construction sites, such as vehicle maintenance areas or equipment washout bays. Daily activities at these sites, specific spill incidents, or illegal dumping can result in illicit discharges. Examples of source pollutants include automotive fluids, paints, solvents, pesticides and herbicides, sediment, and trash.

Exceptions are made for non-stormwater discharges that do not significantly contribute pollutants to the storm sewer system, including fire-fighting activities, water line flushing, and landscape or lawn irrigation. These discharges may flow into the storm sewer or waterway without consequence.

Illicit discharges are significant due to the threat stormwater pollution poses to public safety, public health, and the environment. Due to the importance of reducing and preventing stormwater pollution, illicit discharges, potential sources for illicit discharges, and illegal dumping should be reported immediately so that appropriate corrective actions can be taken.

How Can I Report an Illicit Discharge?

If you see an illicit discharge, a potential source for an illicit discharge, or witness illegal dumping, you should contact the Director of Physical Plant Services.

How Can I Help Reduce Stormwater Pollution?

- Pick up and properly dispose of pet waste
- Appropriately clean up vehicle fluid leaks and spills
- Properly dispose of hazardous substances such as automotive oil, cooking oil, paint, cleaners, etc.
- Exercise caution when using pesticides, herbicides, and fertilizers
- Report illicit discharges, potential illicit discharge sources, and any illegal dumping



Parking Lot Pollutants

WHEN YOU LEAVE A PARKING SPACE...

Do you leave
Trash or Fluids behind?



These
Pollutants



end up in storm drains
and sewers...



Polluted storm water often flows directly to a River causing disease and harm to wildlife and the environment.

Help Improve Stormwater Run Off!

- ✓ Place *litter and cigarette butts* in trash receptacles.
- ✓ Promptly *repair vehicle leaks*.
- ✓ Take your car to the *car wash* instead of washing it in a driveway or parking lot.

To report a potential illicit discharge or improper disposal...

Contact Physical Plant
804.524.4723
Andrew.Conti@dbhds.virginia.gov

Central State Hospital



Andrew Conti

Physical Plan Services



CSH Stormwater Program



Spring 2019

IMPACTS OF STORMWATER RUNOFF

Sediment from construction sites, bare and denuded areas without vegetative cover, and streambank erosion due to high volumes of rainwater runoff caused by urbanization.



- **Carries other pollutants** to water bodies which adversely affects wildlife.
- **Clogs fish gills** which interferes with breathing and kills fish.
- **Creates a muddy bottom** which adversely affects spawning beds.
- **Reduces visibility** due to suspended particles affecting the ability of fish to locate prey.
- **Decreases the depth of the water** which increases water temperatures which forces fish and animals to find a more suitable environment to live.
- **Reduces light penetration** which adversely affects plant growth.
- **Interferes** with navigation, flood control, recreation and fishing industries.

EFFECTS OF POLLUTION ON ENVIRONMENT



Improperly disposed of **animal waste and human waste** from sanitary overflows cause high levels of bacteria (E.coli) in water bodies. Excessive E.coli makes water bodies unsafe for swimming and can sicken or kill people and wildlife.



Nitrogen and Phosphorous in **fertilizers** cause algae blooms in water bodies. Excessive algae produce toxins that sicken or kill people and wildlife.



APPLICABLE STORMWATER REGULATIONS

WHY WE HAVE TO?

Clean Water Act (CWA)
protects Virginia's waters



WHO SAYS?
Compliance &
Enforcement

WHERE APPLICABLE?

MS4 General Permit Entity

- Localities & State Entities within urbanized areas
 - Special Conditions for TMDLs

MUNICIPAL SEPARATE STORM SEWER SYSTEM (MS4)

- Collects & conveys stormwater
 - Potential to convey pollutants downstream
 - Ultimately leads to a point discharge at a natural drainage way (outfall)
- Activities/operations draining to outfalls are regulated if within a Census Urbanized Area (MS-4 Area)



TOTAL MAXIMUM DAILY LOAD (TMDL)



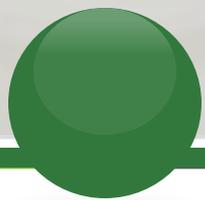
Waterbody not meeting water quality standards



- **TMDL** is a plan (pollution diet) that establishes the maximum amount of a pollutant the waterbody can hold and meet water quality standards.
- **WLA** is the quantity of the pollutant (sediment, nitrogen, bacteria, etc.) that may be discharged.



Assign WLA for pollutant(s) of concern (POC) to point sources



CHESAPEAKE BAY TMDLS

- The Chesapeake Bay is impaired for Nitrogen, Phosphorous and Sediment.
- CSH implements a Chesapeake Bay TMDL Action Plan to reduce the Pollutants of Concern (POCs) based on the amount of impervious area (hard surfaces like roads, sidewalks and building footprints) on the property.
- Currently, CSH performs street sweeping as a Best Management Practice to achieve the required pollutant reductions.
- CSH also adheres to the land disturbing laws and regulations which reduces the amount of sediment released from land disturbing activities.
- CSH also chooses not to apply fertilizer on the lawn which is a source of Nitrogen and Phosphorous.

SEDIMENT AS A POLLUTANT (TMDL)



Stream channel erosion from high volume and velocity of runoff from urban areas



Sediment from land disturbance activities.

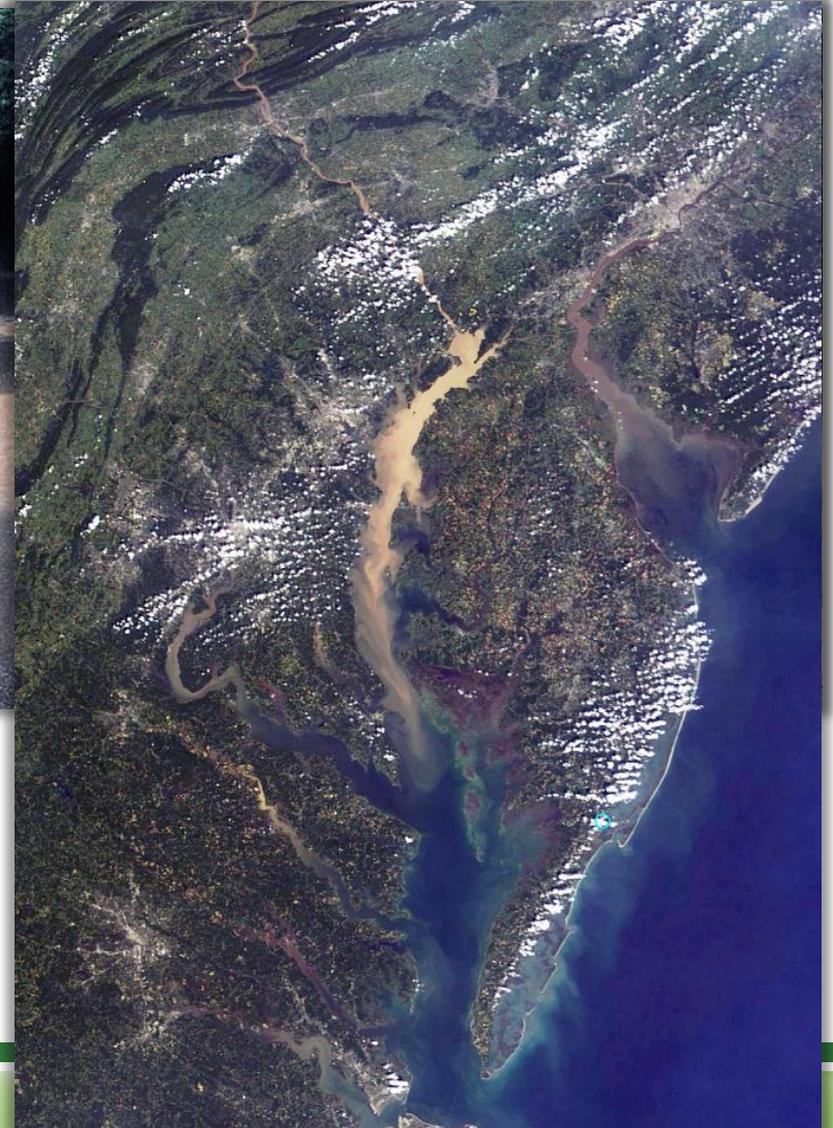
SEDIMENT AS A POLLUTANT (TMDL)



Sediment flows into an inlet



into a local waterbody



and into the Chesapeake Bay

NITROGEN & PHOSPHORUS AS POLLUTANTS (TMDL)



Ferti



Ferti



Algae blooms kill wildlife.

Algae blooms also occur in large water bodies.

DEFINING AN ILLICIT DISCHARGE

- Illicit Discharge - Any discharge to an MS4 that is not composed entirely of stormwater, except discharges specifically identified in the Virginia Administrative Code and determined by CSH not to be a significant contributor of pollutants to the MS4.*



DEFINING AN ILLICIT DISCHARGE



DEFINING AN ILLICIT DISCHARGE

An illicit discharge can:

1. Be a measurable flow from a storm drain during dry weather that contains pollutants or pathogens;
2. Have a unique frequency, composition, and mode of entry in the storm drain system;
3. Be caused when the sewage disposal system interacts with the storm drain system; and
4. Can be discharges from pollutants from specific source areas



Table 1. Examples of source pollutants of an illicit discharge.

- | | |
|---|---|
| • Automotive fluids (oil, fuel, antifreeze) | • Landscape waste (grass clippings, etc.) |
| • Cooking oil and grease | • Improperly applied fertilizer |
| • Solvents | • Sediment |
| • Paints | • Vehicle wash water |
| • Chemical cleansers (detergents, soaps) | • Sanitary sewer wastewaters |
| • Improperly applied pesticides/herbicides | • Dumpster leachate |
| • Improperly managed salts | • Trash |

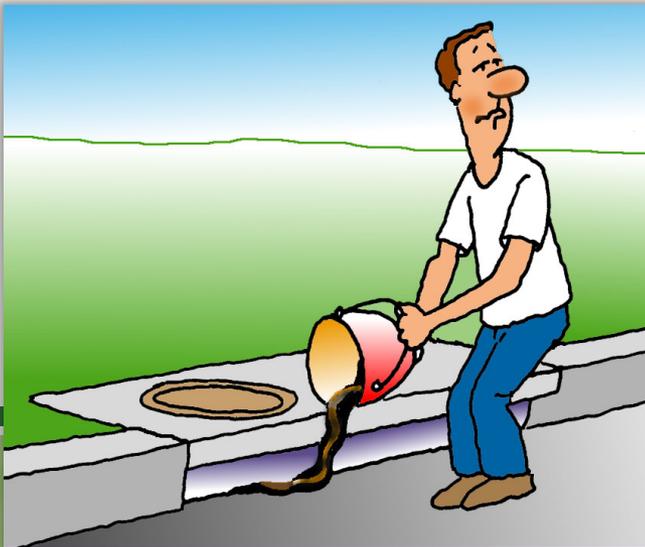
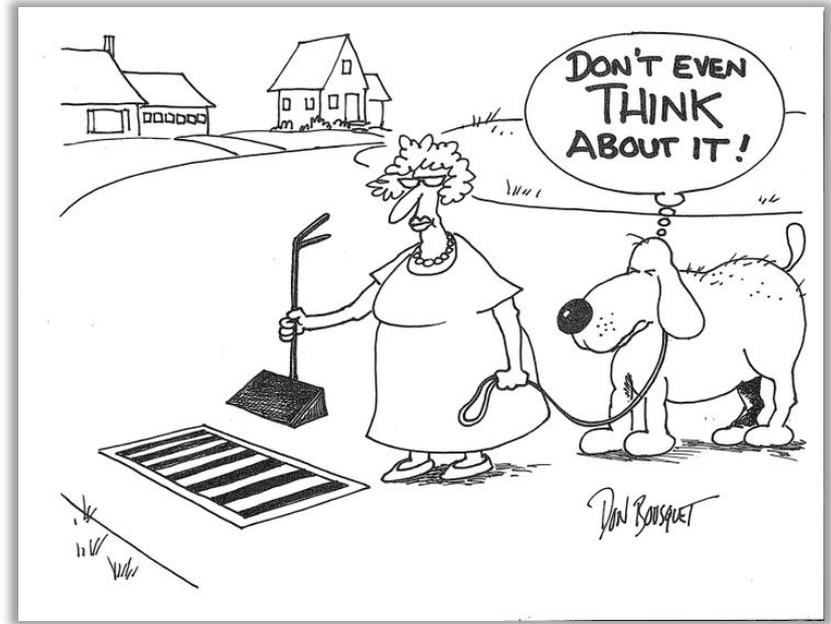
DEFINING AN ILLICIT DISCHARGE

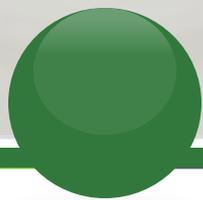
Table 2. Examples of sources that are not considered illicit discharges.

- Fire-fighting activities
- Water line flushing
- Landscape/lawn irrigation
- Diverted stream flows
- Rising groundwater
- Uncontaminated groundwater infiltration
- Uncontaminated pumped groundwater
- Air conditioning condensate
- Footing or foundation drains
- Springs
- Water from crawl space pumps
- Dechlorinated swimming pool wastewater
- Discharges from potable water sources
- Flows from riparian habitats and wetlands



DEFINING AN ILLICIT DISCHARGE





REPORTING AN ILLICIT DISCHARGE

Report observed concerns to Physical Plant Office:

Call 804.524.4723

or

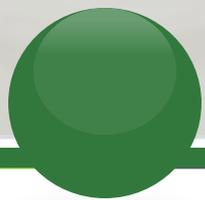
Email: Andrew.Conti@dbhds.virginia.gov

or

Check out our website by searching Stormwater Plan

or

Visit: <http://www.csh.dbhds.virginia.gov/StormwaterManPlan.html>



QUESTIONS?

THANK YOU

Andrew Conti, Director of Physical Plant Services

Appendix B: Documentation of Public Involvement Activities

Chris Schrinel

To: Lehman, Peter; Andy Conti
Subject: RE: CSH Event; Trash Cleanup Around Local Waterways

----- Forwarded message -----

From: **Lehman, Peter** <peter.lehman@dbhds.virginia.gov>
Date: Thu, Jun 27, 2019 at 3:47 PM
Subject: Fwd: CSH Event; Trash Cleanup Around Local Waterways
To: # CSH All Users (DBHDS) <cshalluser@dbhds.virginia.gov>

Please note Mr. Conti's message regarding a voluntary cleanup day for CSH for tomorrow over near Fort Whitworth (earthworks across from HDMC).

This is part of our program of participation in preserving the Chesapeake Bay Watershed by controlling pollutants before they enter the streams and rivers.

----- Forwarded message -----

From: **Conti, Andrew** <andrew.conti@dbhds.virginia.gov>
Date: Thu, Jun 27, 2019 at 3:33 PM
Subject: CSH Event; Trash Cleanup Around Local Waterways
To: Peter Lehman <peter.lehman@dbhds.virginia.gov>

Pete; please send an email to the entire campus for this event tomorrow;

CSH is sponsoring a Trash Cleanup Event around our Local Waterways on Friday June 28th 2019. Please join us at Fort Whitworth here on the CSH Campus. We will be picking up litter from 8am to 9am and then again from 2pm to 3pm.

Please contact Physical Plant Services at ext.4723 with any questions.

Andrew Conti

Director of Physical Plant Services

Central State Hospital and Hiram W. Davis Medical Center

26317 W. Washington St.

Petersburg, VA 23803

(804) 524-4723

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*Pete Lehman
Operations/EOC Compliance Manager
Central State Hospital
(804)-524-7328*

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*Pete Lehman
Operations/EOC Compliance Manager
Central State Hospital
(804)-524-7328*

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*Pete Lehman
Operations/EOC Compliance Manager
Central State Hospital
(804)-524-7328*







The Safety Net– August 2018

Call 911 for Campus Emergencies

Hurricane Season is Here

The Virginia Department of Emergency Management advises that you prepare emergency supplies and have an evacuation plan ready in the event of a hurricane in your area. Go to their website for important information: <http://www.vaemergency.gov/> You can also download their app for your smart phone to keep you up-to-date on all state emergency situations. and communications.



LOVE VIRGINIA

HAVE YOU SCHEDULED YOUR FALL CLEAN-UP YET?

September 9 - October 8 is DAY TO SERVE and is a perfect time to show your commitment to your community and the environment!

Helping to Keep the Chesapeake Bay Clean

There are many ways to help to keep the Chesapeake Bay Watershed clean. For example the *City of Petersburg* will pick up prunings, grass clippings, weeds, leaves, and general yard and garden wastes as long as they are bagged and securely tied up. If you live in *Chesterfield County*, your neighborhood can participate in their “Neighborhood Sweep” program to pickup litter before it gets into the streams and stormwater sewer system. And many organizations such as churches or community groups can participate in the *Love Virginia* program which includes the “Adopt-a-Highway” program as well as the “Keep Virginia Beautiful” program. So get involved and help keep Virginia beautiful!

Pedestrian Safety Between the 90s

Patients and employees use the sidewalks between the 90s and 114 buildings every day. State vehicles should exercise caution and only drive on them for emergencies or to access areas that cannot be reached via service entrances.

*They are **NOT** to be used as short-cuts across the campus.*



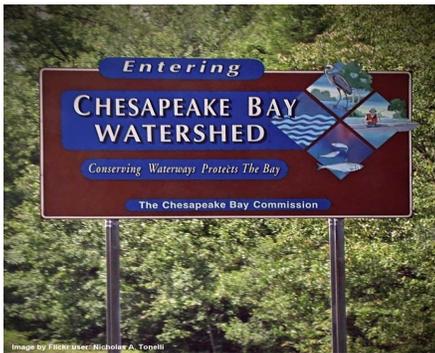
Caution Tape in Front of Building 8

Due to structural hazards of the aging Building 8 (built in 1929) caution tape and safety cones have been placed around the front of that building. Please stay outside of those barriers. If you need to walk along the street curb to/from Building 113 be especially alert to vehicle traffic until a new sidewalk can be constructed along 7th Avenue away from the building.





Doing Our Part to Keep The Chesapeake Bay Clean



Our campus is doing our part to manage and reduce the quantities of chemicals, sediments, and pollutants that can go into the storm water systems that lead back to the Chesapeake Bay, which in turn impacts the wildlife and the many sea and freshwater species inhabiting the bay. This includes (1) discontinuing the use of fertilizers on the campus grounds which would runoff into local streams, (2) the collection of road salt and sand used during the winter for treating our campus roads and sidewalks, and (3) washing/cleaning state vehicles at the designated area at Transportation Services.

HURRICANE FLORENCE & TROPICAL STORM MICHAEL PUT VIRGINIA TO THE TEST

It's been an active 2018 hurricane season with Hurricane Florence (9/7—9/12) and Tropical Storm Michael (10/11-10/13). Both storms caused widespread heavy rainfall, flooding, power outages, and tornado activity. Each time we were prepared to receive evacuees from sister DBHDS facilities that were in harm's way thanks to great team work from PPS, Warehouse, Food Services, House-keeping, and IT to make Building 93 ready.

NATIONAL WEATHER SERVICE
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION

Hurricane Florence

Decision Support Briefing #12
As of: 5:30 PM Thursday, 9/13

What Has Changed?

- ✓ Tropical storm warnings remain in effect for southeast VA and NC.
- ✓ Coastal Flood Warnings have been expanded across the Bay and VA Beach

<https://www.weather.gov/akq/Florence>
<https://www.nhc.noaa.gov>
<https://www.weather.gov/akq/briefings/LatestBriefing.pdf>

NATIONAL WEATHER SERVICE
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION

Tropical Storm Michael

Decision Support Briefing #5
As of: 5:00 AM
October 11th, 2018

What Has Changed?

- ✓ Wind Advisories now in effect for most inland areas
- ✓ Increased risk for Isolated Tornadoes over southeastern VA/Northeast NC

<http://www.weather.gov/akq/Michael>

**“Fall Back One Hour”
November 4 at 2:00 am .**

**Election Day is Tuesday, November 6.
Vote and be heard !**

From: [Lehman, Peter](#)
To: [# CSH All Users \(DBHDS\)](#)
Cc: [Chris Schriener](#)
Subject: Helping to Preserve The Chesapeake Bay Watershed
Date: Thursday, June 27, 2019 3:42:08 PM

Good afternoon everyone,
Here is an opportunity for Virginians to help preserve the Chesapeake Bay Watershed.

The Nature Conservancy needs volunteers to assist in invasive species control at the South River Preserve in Stuart's Draft, Virginia. These volunteer opportunities are great to help protect one of the rarest ecosystems in the state of Virginia. The next event is on July 10, 2019 and we encourage all of those interested to consider this event. Information is below:

<https://www.nature.org/en-us/get-involved/how-to-help/volunteer-and-attend-events/find-local-events-and-opportunities/weed-wednesdays-invasive-control/>

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Pete Lehman
Operations/EOC Compliance Manager
Central State Hospital
(804)-524-7328

Preventive Maintenance Work Order

Print Date: 9/28/2018

WO#: 470858 **WEEKLY TRASH PICK UP PREVENTIVE MAINTENANCE**

Schedule No: 1137 **Safety Incident #:**
Account: 726 - SOUTHSIDE FACILITY **Type:** Preventive Maintenance **Date Orig:** 9/27/2018
Site: CENTRAL STATE HOSPITAL **Priority:** 3- PLANNED/PREVENTIVE MAINTENANCE **Time Orig:** 7.09
Building: MAIN GROUNDS **Status:** ACTIVE **Date Avail:** 10/1/2018
Location: COMPLEX **Sub-Status:** ISSUED TO TECHNICIAN **Date Needed:** 10/8/2018
 COMPLEX - COMPLEX **Skill:** GROUNDS TECH
Req Name: **Req Phone:** **Req Pager:**
Req Remarks:

Asset Data

Asset No: CAMPUS GROUNDS **Desc:** DBHDS PETERSBURG COMPLEX GROUNDS **Risk:**
Manuf: **Warranty:**
Model No: **Start:**
Serial No: **End:**

Procedures

Proc #: 319 **Desc:** WEEKLY TRASH: WEEKLY TRASH PICK UP PREVENTIVE MAINTENANCE
Skill: GROUNDS TECH **Shut Down Required:** No **Est Time:** 60 **Is Checklist:** False

Instructions

WEEKLY TRASH PICK UP (X)

Sub Procedure Readings

Proc #	Date Created	Instructions	Type	Choice Label	Reading
319					

Problem Code: **Cause Code:** **Total Time:** 0.00000000
Action Code: **Item Code:** **Labor Cost:** \$0.00
Material Cost: \$0.00
Total WO Cost: \$0.00

Completed By: _____ **Date:** _____

Comments: