

**VPDES MUNICIPAL SEPARATE STORM SEWER  
SYSTEM (MS4) PERMIT  
VAR 040128**

**ANNUAL REPORT  
PERIOD JULY 1, 2020 TO JUNE 30, 2021**

**DEPARTMENT OF JUVENILE JUSTICE (DJJ)  
AGENCY 777  
BON AIR FACILITY**



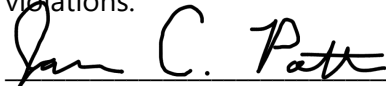
*September 28, 2021*

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## 1.0 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 assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.



10/1/21

Responsible Official Signature

Date

Print Name: Jamie C. Patten

Title: DJJ Deputy Director of Administration & Finance Division

VAR040128

VA Dept. of Juvenile Justice - Consolidated MS4s at Bon Air

Permit Number

MS4 Name

## 2.0 INTRODUCTION

On April 18, 2014, the Department of Juvenile Justice (DJJ) was issued an MS4 permit by the Virginia Department of Environmental Quality (DEQ) for the Bon Air facility. This permit sets forth minimum requirements for the operation and maintenance of the storm sewer system, including storm water treatment systems (BMPs), and is reissued every five years. The permit requires an annual report to be submitted to DEQ by October 1, 2021 describing progress on meeting permit requirements during the period from July 1, 2020 to June 30, 2021.

On September 21, 2021 DJJ received a Warning Letter from DEQ for the Bon Air facility. The warning letter was a summary of findings based on an August 4, 2021 audit. Per direction from the warning letter, DJJ will respond to DEQ in writing within 30 days of the letter date and detail corrective actions to ensure compliance with the state law and regulations.

### 3.0 ANNUAL REPORTING REQUIREMENTS - COMPLIANCE SUMMARY

In Part I section D of the MS4 permit, the permit lists specific items to be addressed in the Annual Report. The following are the items listed in the permit in italic typeface followed by responses in bold typeface:

Part I Section D2

2. *The annual report shall include the following general information:*

a) *The permittee, system name, and permit number;*

**Response: Permittee & System name: VA Dept. of Juvenile Justice - Consolidated MS4s at Bon Air**

**Permit number: VAR040128**

b) *The reporting period for which the annual report is being submitted;*

**Response: July 1, 2020 to June 30, 2021**

c) *A signed certification as per Part III K;*

**Response: See Section 1 for signed certification.**

d) *Each annual reporting item as specified in an MCM in Part I E; and*

**Response: See Section 4 for specified annual reporting items for each MCM.**

e) *An evaluation of the MS4 program implementation, including a review of each MCM, to determine the MS4 program's effectiveness and whether or not changes to the MS4 program plan are necessary.*

**Response: The current MS4 program implementation has been effective in providing compliance with the permit requirements. No changes to the MS4 program plan were required during the reporting period, however DJJ Bon Air is in the process of updating the program plan for 2021. See evaluation of each MCM at the end of each MCM section.**

## 4.0 MINIMUM CONTROL MEASURES REPORTING

### 4.1 Public education and outreach

In Part I section E-1-g of the MS4 permit, the permit lists specific items to be addressed in the Annual Report. The following are the items listed in the permit in italic typeface followed by responses in bold typeface:

*Part I section E-1-g*

*g. The annual report shall include the following information:*

- 1. A list of the high-priority stormwater issues the permittee addressed in the public education and outreach program; and*

**Response: The high priority water quality issues identified by DJJ Bon Air are: litter, facilities operations, and illicit discharges.**

- 2. A list of the strategies used to communicate each high-priority stormwater issue.*

**Response: The permit requires two strategies listed in Table 1 of the permit. DJJ is currently pursuing strategies in Curriculum Materials. DJJ Bon Air is responsible for the education of teenage students (interned residents) to meet the following Standards of Learning (SOL) areas related to stormwater:**

- Life Science: LS.9, LS.10 & LS.11**
- Earth Science: ES.8 & ES.10**
- Biology: BIO.8**

**MCM Evaluation: The MCM is effective in ensuring regulatory compliance. No changes are planned at this time.**

## 4.2 Public involvement and participation

In Part I section E-2-f of the MS4 permit, the permit lists specific items to be addressed in the Annual Report. The following are the items listed in the permit in italic typeface followed by responses in bold typeface:

### *Part I section E-2-f*

*f. The annual report shall include the following information:*

- 1. A summary of any public input on the MS4 program received (including stormwater complaints) and how the permittee responded;*

**Response: No public input was received during the reporting cycle.**

- 2. A webpage address to the permittee's MS4 program and stormwater website;*

**Response: This Annual Report, including the current MS4 Program Plan will be posted to the following link within 30 days of submittal of this Annual Report to DEQ:**

<http://www.djj.virginia.gov/pages/admin/capital-outlay.htm#MS4>

- 3. A description of the public involvement activities implemented by the permittee;*

**Response: The permit requires at least four activities per year from two or more categories listed in Table 2 of the permit. DJJ is currently pursuing strategies in Educational Events and Disposal or Collection events.**

- Educational Events: Presentation of stormwater materials as part of classes to meet SOL requirements (see above) 4+ times per year.**
- Disposal or Collection Events: Fluorescent bulbs and waste oil are collected on an on-going basis and picked up for disposal by a licensed waste receiver approximately once or twice per year.**

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; and*

**Response: The metric for all of the activities is the completion of the activities listed, which was accomplished. The activities are beneficial to improving water quality by making students (interned residents) aware of stormwater issues and by reducing the potential for hazardous pollutants to contaminate stormwater runoff.**

5. *The name of other MS4 permittees with whom the permittee collaborated in the public involvement opportunities.*

**Response: No other MS4 permittees were involved in the listed public involvement opportunity.**

**MCM Evaluation: The MCM is effective in ensuring regulatory compliance. No changes are planned at this time.**

### 4.3 Illicit discharge detection and elimination

In Part I section E-3-e of the MS4 permit, the permit lists specific items to be addressed in the Annual Report. The following are the items listed in the permit in italic typeface followed by responses in bold typeface:

#### Part I section E-3-e

*e. The annual report shall include:*

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;*

**Response: A Hydrodynamic Separator was installed just upstream of the existing northern stormwater basin in the reporting year, the MS4 Map has been updated to reflect this change.**

2. *The total number of outfalls screened during the reporting period as part of the dry weather screening program; and*

**Response: During the reporting period, all 15 outfalls were screened. There were no signs of illicit discharges and no follow-up actions were required.**

3. *A list of illicit discharges to the MS4 including spills reaching the MS4 with information as follows:*
  - a. *The source of illicit discharge;*
  - b. *The dates that the discharge was observed, reported, or both;*
  - c. *Whether the discharge was discovered by the permittee during dry weather screening, reported by the public, or other method (describe);*
  - d. *How the investigation was resolved;*
  - e. *A description of any follow-up activities; and*
  - f. *The date the investigation was closed.*

**Response: During the reporting period, there were no illicit discharge events where prohibited discharges reached the storm sewer system.**

**MCM Evaluation: The MCM is effective in ensuring regulatory compliance. No changes are planned at this time.**



#### 4.4 Construction site stormwater runoff control

In Part I section E-4-e of the MS4 permit, the permit lists specific items to be addressed in the Annual Report. The following are the items listed in the permit in italic typeface followed by responses in bold typeface:

##### Part I section E-4-e

*d. The annual report shall include the following:*

1. *If the permittee implements a construction site stormwater runoff program in accordance with Part I E 4 a (3):*

- 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; and*

**Response: DJJ Bon Air has not developed standards and specifications as part of Part I E 4 a (3), therefore this requirement is not applicable. At a minimum, DJJ Bon Air has adopted and implemented the recognized Commonwealth of Virginia (COVA) standards for land disturbing projects as set forth in the Department of General Services, Division of Engineering, Construction and Professional Services Manual (CPSM).**

- 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 the projects did not conform to the approved standards and specifications.*

**Response: DJJ Bon Air has not developed standards and specifications as part of Part I E 4 a (3), therefore this requirement is not applicable.**

*Total number of inspections conducted; and*

**Response: During the reporting period, there were no construction activities that resulted in the disturbance of 10,000 square feet or greater, 2,500 square feet or greater in accordance with areas designated under the Chesapeake Bay Preservation Act, or in accordance with more stringent thresholds established by the local government.**

*the total number and type of enforcement actions implemented and the type of enforcement actions.*

**Response: As DJJ Bon Air is the contract holder for all of the land disturbance activities at the facility, any deficiencies in ESC measures or practices are resolved immediately. There were no enforcement actions taken during the reporting period.**

**MCM Evaluation: The MCM has been effective in providing compliance with the regulatory requirements.**

#### **4.5 Post-construction stormwater management for new development and development on prior developed lands**

In Part I section E-5-i of the MS4 permit, the permit lists specific items to be addressed in the Annual Report. The following are the items listed in the permit in italic typeface followed by responses in bold typeface:

##### Part I section E-5-i

*i. The annual report shall include the following information:*

1. *If the permittee implements a Virginia Stormwater Management Program in accordance with Part I E 5 a (1) and (2):*

*a. The number of privately owned stormwater management facility inspections conducted; and*

**Response: N/A, all stormwater management facilities are owned by COVA DJJ Bon Air.**

*b. The number of enforcement actions initiated by the permittee to ensure long-term maintenance of privately owned stormwater management facilities including the type of enforcement action;*

**Response: N/A, all stormwater management facilities are owned by COVA DJJ Bon Air.**

2. *Total number of inspections conducted on stormwater management facilities owned or operated by the permittee;*

**Response: Both stormwater management facilities were inspected in October of 2020.**

3. *A description of the 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;*

**Response: At both stormwater management facilities trees and shrubs were cut at grade and sediment was removed.**

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 from Construction Activities; and*

**Response: Confirmed**

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.*

**Response: No new bmps have been added in this category during this reporting period. The last time this category was required to be updated the required information was sent to Mercer Cronemyer of DEQ on 6/28/19.**

**MCM Evaluation: The MCM is effective in ensuring regulatory compliance. No changes are planned at this time.**

**4.6 Pollution prevention and good housekeeping for facilities owned or operated by the permittee within the MS4 service area.**

In Part I section E-6-q of the MS4 permit, the permit lists specific items to be addressed in the Annual Report. The following are the items listed in the permit in italic typeface followed by responses in bold typeface:

Part I section E-6-q

*q. The annual report shall include the following:*

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

**Response: No changes or modification were done to operational procedures during the reporting period.**

2. *A summary of any new SWPPPs developed in accordance Part I E 6 c during the reporting period;*

**Response: N/A. DJJ Bon Air does not have any facilities that meet the permit criteria for high-priority facilities.**

3. *A summary of any 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;*

**Response: N/A. DJJ Bon Air does not have any facilities that meet the permit criteria for high-priority facilities.**

4. *A summary of any new turf and landscape nutrient management plans developed that includes:*

- a. Location and the total acreage of each land area; and*

- b. The date of the approved nutrient management plan; and*

**Response: There is no application of fertilizers or general herbicides on lawn areas, therefore no turf and landscape nutrient management plans are required.**

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

- c. The date of the training event;*
- d. The number of employees who attended the training event; and*
- e. The objective of the training event.*

**Response: The permit requires a training plan to cover specific items related to the MS4 permit. DJJ Bon Air has two full time and two part time Grounds employees. As no employees perform road, street, or parking lot maintenance (item 2); there is no pesticide or herbicide application (item 4); no employees are plan reviewers, inspectors, program administrators, or construction site operators (items 5); no employees or contractors implement a stormwater program under the Virginia Stormwater Management Act (item 6); and no employees are emergency responders trained in spill response (item 7), only the following items are applicable to DJJ Bon Air:**

- Item 1: Field personnel receive training in the recognition and reporting of illicit discharges no less than once per 24 months;**
- Item 3: Employees working in and around maintenance, public works, or recreational facilities receive training in good housekeeping and pollution prevention practices associated with those facilities no less than once per 24 months;**

**New this reporting period, DJJ had their consultant present a training session on March 11, 2021 covering the material in items 1 & 3. This training presentation will continue every 2 years.**

**MCM Evaluation: The MCM is effective in ensuring regulatory compliance.**

## 5.0 CHESAPEAKE BAY TMDL STATUS REPORT

In Part II section A-13 of the MS4 permit, the permit lists specific items to be addressed in the Annual Report. The following are the items listed in the permit in italic typeface followed by responses in bold typeface:

### Part II section A-13

13. *For each reporting period, the corresponding annual report shall include the following information:*

- 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;*

**Response: A Hydrodynamic Separator was installed just upstream of the existing northern stormwater basin in January of 2021. The total cost of this work was \$69,400 including \$12,400 in design costs and \$57,000 in construction costs.**

- 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;*

**Response: Credits were not acquired during the reporting period**

- 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; and*

**Response: All required cumulative reductions for total nitrogen, total phosphorus, and total suspended solids have been met for the current permit:**

	<b>Removal Achieved (lbs/yr)</b>		
	<b>N</b>	<b>P</b>	<b>TSS</b>
Cumulative Required Removal through Second Permit Cycle	11.30	2.41	1,047.63
1 <sup>st</sup> Cycle Removals Achieved	11.32	1.08	130.10
2 <sup>nd</sup> Cycle Removals Achieved	24.09	1.82	1968.13
Total Cumulative Removals to Date	35.41	2.90	2098.23

d) *A list of BMPs that are planned to be implemented during the next reporting period.*

**Response: There are no planned BMP's planned to be implemented during the next reporting period for compliance with the Chesapeake Bay TMDL.**



## 6.0 LOCAL TMDL STATUS REPORT

In Part II section B-9 of the MS4 permit, the permit lists specific items to be addressed in the Annual Report. The following are the items listed in the permit in italic typeface followed by responses in bold typeface:

*Part II section B-9*

*9. For each reporting period, each annual report shall include a summary of actions conducted to implement each local TMDL action plan.*

**The only TMDL applicable to the DJJ Bon Air facility is the Chesapeake Bay TMDL. No other information is required.**

## 7.0 CONDITIONS APPLICABLE TO ALL STATE AND VPDES PERMITS

### 7.1 Reporting Monitoring Results

In Part III section C-1 of the MS4 permit, the permit lists specific items to be addressed in the Annual Report. The following are the items listed in the permit in italic typeface followed by responses in bold typeface:

#### Part III section C-1

*1. The operator shall submit the results of the monitoring as may be performed in accordance with this state permit with the annual report unless another reporting schedule is specified elsewhere in this state permit.*

**Response: N/A, no monitoring took place during the reporting period.**

### 7.2 Reporting of noncompliance

In Part III section I-3 of the MS4 permit, the permit lists specific items to be addressed in the Annual Report. The following are the items listed in the permit in italic typeface followed by responses in bold typeface:

#### Part III section I-3

*3. The operator shall report all instances of noncompliance not reported under Part III I 1 or 2, in writing, as part of the annual reports that are submitted. The reports shall contain the information listed in Part III I 2.*

*NOTE: The reports required in Part III G, H, and I shall be made to the department. Reports may be made by telephone, email, or fax. For reports outside normal working hours, leaving a recorded message shall fulfill the immediate reporting requirement. For emergencies, the Virginia Department of Emergency Management maintains a 24-hour telephone service at 1-800-468-8892.*

**Response: There are no instances of noncompliance to report.**

### 7.3 Signatory requirements

In Part III section K-2 of the MS4 permit, the permit lists specific items to be addressed in the Annual Report. The following are the items listed in the permit in italic typeface followed by responses in bold typeface:

#### Part III section K-2

*2. Reports and other information. All reports required by state permits, including annual reports, and other information requested by the board or department shall be signed by a person described in Part III K 1, or by a duly authorized representative of that person. A person is a duly authorized representative only if:*

- a) The authorization is made in writing by a person described in Part III K 1;*
- b) The authorization specifies either an individual or a position having responsibility for the overall operation of the regulated facility or activity such as the position of plant manager, operator of a well or a well field, superintendent, position of equivalent responsibility, or an individual or position having overall responsibility for environmental matters for the operator. (A duly authorized representative may thus be either a named individual or any individual occupying a named position.); and*
- c) The signed and dated written authorization is submitted to the department.*

**Response: See Section 1 of this report for Agency signatory and signature.**