

**VPDES MUNICIPAL SEPARATE STORM SEWER
SYSTEM (MS4) PERMIT
VAR040128**

**ANNUAL REPORT
PERIOD JULY 1, 2022, TO JUNE 30, 2023**

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



September 30, 2023

TRC Project No. 546947

TABLE OF CONTENTS

TABLE OF CONTENTS: 1

1.0 SIGNED CERTIFICATION AS PER PART III K:2

2.0 INTRODUCTION.....2

3.0 ANNUAL REPORTING REQUIREMENTS - COMPLIANCE SUMMARY3

4.0 MINIMUM CONTROL MEASURES REPORTING.....5

 4.1 Public education and outreach5

 4.2 Public involvement and participation.....6

 4.3 Illicit discharge detection and elimination8

 4.4 Construction site stormwater runoff control.....9

 4.5 Post-construction stormwater management for new development and
 development on prior developed lands10

 4.6 Pollution prevention and good housekeeping for facilities owned or operated by
 the permittee within the MS4 service area.....12

5.0 CHESAPEAKE BAY TMDL STATUS REPORT14

6.0 LOCAL TMDL STATUS REPORT15

7.0 CONDITIONS APPLICABLE TO ALL STATE AND VPDES PERMITS.....16


 7.1 Reporting Monitoring Results.....16

 7.2 Reporting of noncompliance.....16

 7.3 Signatory requirements.....17

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.

 9/19/2023
Responsible Official Signature Date

Nikia D. Jones, MPA
Deputy Director of Administration & Finance Division

VAR040128 Department of Juvenile Justice - Consolidated MS4s at Bon Air
Permit Number **MS4 Name**

2.0 INTRODUCTION

On April 18, 2014, Virginia Department of Juvenile Justice (DJJ) was issued an MS4 permit by the Virginia Department of Environmental Quality (DEQ) for Bon Air facility. This permit outlines minimum requirements for the operation of the DJJ’s storm sewer system, including best management practices (BMPs), and it is reissued every five years. The DJJ’s current permit number is VAR040128, and the permit cycle duration is from November 1, 2018, to October 31, 2023. The permit mandates an annual report to be submitted to the Virginia DEQ by October 1st during the permit cycle, detailing progress in meeting permit requirements from July 1st to June 30th of the previous year. This annual report encompasses the DJJ’s progress in meeting the permit requirements for the period from July 1, 2022, to June 30, 2023.

DJJ BON AIR – 2023 ANNAUL REPORT

DJJ's MS4 permit program was audited by DEQ on August 4, 2021 and DEQ issued a Warning Letter on September 21, 2022 citing specific issues. DJJ resolved all the issues with DEQ as confirmed by DEQ in April 2022.

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

1. *The permittee shall submit an annual report to the department no later than October 1 of each year in a format as specified by the department. The report shall cover the previous year from July 1 to June 30.*

Response: Understood! It is noted that the Department of Juvenile Justice (DJJ) Bon Air submits its annual report to the DEQ no later than October 1 of each year. This annual report specifically covers the period from July 1, 2022, to June 30, 2023.

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

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

Response: The 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, 2022, to June 30, 2023

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

Response: See section 1 on page 2 for signed certification.

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

Response: Please refer to section 4, starting on page 5, for the 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 and currently no changes to the MS4 program plan is necessary.

3. *For permittees receiving initial coverage under this general VPDES permit for the discharge of stormwater, the annual report shall include a status update on each component of the MS4 program plan being developed. Once the MS4 program plan has been updated to include implementation of a specific MCM in Part I E, the permittee shall follow the reporting requirements established in Part I D 2.*

Response: DJJ currently holds permit number VAR040128. DJJ's annual report adheres to the reporting requirements outlined in Part I D 2.

4. *For those permittees with requirements established under Part II A, the annual report shall include a status report on the implementation of the Chesapeake Bay TMDL action plan in accordance with Part II A of this permit including any revisions to the plan.*

Response: This annual report includes a status report on the implementation of the Chesapeake Bay TMDL action plan in accordance with Part II A of this permit. Please refer to section 5.0 of this annual report on page 14 for Chesapeake Bay TMDL action plan status report.

5. *For those permittees with requirements established under Part II B, the annual report shall include a status report on the implementation of the local TMDL action plans in accordance with Part II B including any revisions to the plan.*

Response: This annual report includes a status report on the implementation of the local TMDL action plan in accordance with Part II B of this permit. Please refer to section 6.0 of this annual report on page 15 for local TMDL action plan status report.

6. *For the purposes of this permit, the MS4 program plan and annual report shall be maintained separately and submitted to the department as required by this permit as two separate documents.*

Response: Understood! The MS4 program plan and annual report are maintained as distinct documents and are submitted separately to the department.

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: DJJ identified the following three high-priority stormwater issues for educating its audience, which comprises students, inter residents, and employees. They 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 and Traditional Written 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.**
7th Grade Course (ages 13-14) rare, 0 students this term.
- **Earth Science: ES.8 & ES.10**
9th Grade Course reached 14 students this term.
- **Biology: BIO.8**
10th Grade Course reached 27 students this term.

DJJ consistently posts informative brochures, flyers, and fact sheets about stormwater on its dedicated stormwater website and bulletin board postings, while also disseminating them to its audience, which includes students, intern residents, and employees.

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: Annual Reports, current MS4 Program Plan, and other documents related to DJJ's MS4 program are posted at the following webpage:

<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 the Standards of Learning (SOL) requirements at least four times per year. Please see Part I section E-1-g (2) above on pages 5 and 6 for more information.**
 - **Disposal or Collection Events: Fluorescent bulbs, waste oil, and vehicle fluids 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: For each public involvement activity during the reporting year, the metric was the completion of the activities listed and track the number of participants and students. 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: The MS4 Map and information table were not updated because no changes to the MS4 occurred during the reporting period. The MS4 Map and information table were up to date and reflected the site conditions on or before June 30 of this reporting year.

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, revealing no indications of illicit discharges, and thus necessitating no follow-up actions. Furthermore, in addition to the dry screening of outfalls, thorough inspections were conducted on all 4 BMPs.

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-d

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 standards for land disturbing projects as set forth in the Department of General Services, Division of Engineering, Construction and Professional Services Manual (CPSM) and Department of Environmental Quality (DEQ), Stormwater Management & Erosion & Sediment Control laws and Regulations.

- 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.

- 2. Total number of inspections conducted; and*

Response: During the reporting period, there were no construction activities that resulted in the disturbance of 2,500 square feet or greater. Therefore, no inspections were required or conducted.

- 3. 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:*

DJJ BON AIR – 2023 ANNAUL REPORT

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 and maintained by Commonwealth of Virginia 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 and maintained by Commonwealth of Virginia DJJ Bon Air.

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

Response: All stormwater management facilities owned and operated by DJJ were inspected during the reporting period. Inspections were conducted during the reporting period for all four (4) SWM/BMP facilities and fifteen (15) outfalls.

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: No significant maintenance, repair, or retrofit activities were performed during the reporting period.

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. DJJ did not complete any projects requiring coverage under the General VPDES Permit for Discharges of Stormwater from Construction Activities.

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.

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 operational procedures were developed during this year's reporting period, and no alterations or adjustments were applied to any existing operational procedures during this specific 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. Therefore, there is neither an existing SWPPP nor a new SWPPP developed during the reporting period.

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 with DJJ's Bon Air Facility. Therefore, no turf and landscape nutrient management plans are required.

5. *A list of the training events conducted in accordance with Part I E 6 m, including the following information:*
- a. The date of the training event.*
 - b. The number of employees who attended the training event; and*
 - c. The objective of the training event.*

Response: The permit requires a training plan for applicable staff 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 in Part I E 6 m); 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.**

DJJ had their consultant present a training session on June 29, 2023, covering the materials in items 1 & 3. Fifteen (15) employees attended the training. Sign-in sheet and training materials in PowerPoint slides are available upon request. 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: No BMPs were implemented during this reporting period.

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.

	Removal Achieved (lbs/yr)		
	N	P	TSS
Cumulative Required Removal through Second Permit Cycle	11.30	2.41	1,047.63
1 st Cycle Removals Achieved	11.32	1.08	130.10
2 nd 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 BMPs 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: Understood! There were no instances of noncompliance to report in this Annual 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: Please refer to section 1 of this report on page 2 for Agency signatory and signature.