

Stormwater Pollution Prevention Plan

Winchester Parks and Recreation Maintenance Building

1001 East Cork Street

Winchester, VA 22601

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SWPPP Preparation Date:

July 1, 2019

THIS DOCUMENT SHALL BE KEPT ONSITE AND AVAILABLE FOR THE DURATION OF CONSTRUCTION

Stormwater Pollution Prevention Plan

Winchester Parks and Recreation Maintenance Building

**THIS SWPPP & EROSION CONTROL PLAN WILL CLOSELY FOLLOW THE
CONTRACT DOCUMENTS AND STORM WATER POLLUTION PREVENTION PLAN**

Project Description

This project consists of reconstruction of the maintenance building that serves Jim Barnett Park located within the city limits of Winchester, Virginia. The pre-engineered metal building portion of the existing shop building shall remain; with the remainder to be demolished and removed from site. A new pre-engineered, pre-manufactured, metal building garage and shop addition with concrete masonry unit (CMU) link and foundation system shall be constructed in its place. The existing site that serves this facility will be re-graded with stone to promote positive drainage for continued use. A new equipment shed will be added to this site for use with potential expansion. Additionally, provisions have been made in this design to add a future wash bay to the southern portion of the new shop area. The construction shall include the construction of the maintenance building additions, the installation of curb and gutter, small handicap parking area, paved access to the yard, installation of topping stone to promote positive drainage, service utilities, site lighting and minor landscaping.

Adjacent Property Information

The proposed site is approximately two acres (2 ac.) located in the southeastern corner of the existing Jim Barnett Park property which consists of 169.16 ac. The park is located at 1001 E Cork Street in Winchester, Virginia. The project site is currently fully developed with the existing Park Maintenance Building and storage yard. The yard area is partially paved with asphalt and gravel. The immediate facility site is completely fenced. The site area currently provides offices for the maintenance staff, shop and garage facilities for Park Maintenance. The yard is filled with a combination of stored equipment, cut trees, parts and stored materials. The entire project site is located within the city limits of the City of Winchester, VA. The construction site is bounded on the east by the Interstate-81 right-of-way.

Stormwater Pollution Prevention Plan (SWPPP)

In compliance with:

VSMP General Permit for Discharges of Stormwater from Construction Activities (VAR10)

Effective: July 1, 2019
Expiration Date: June 30, 2024

SWPPP Certification

"I certify under penalty of law that I have read and understand this document and that this document and all attachments were prepared in accordance with a system designed to assure that qualified personnel properly gathered and evaluated 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."

"Furthermore, I have read and understand this Stormwater Pollution Prevention Plan and the information in this document and its attachments is to the best of my knowledge true, accurate and complete. In addition, I certify that I will fully implement this Plan and will maintain its accuracy and maintain on site at all times."

Name: _____

Title: _____

Company: _____

Phone: _____

Signature: _____

Delegation of Authority

The Operator may specify a Duly Authorized Representative to implement this Stormwater Pollution Prevention Plan (SWPPP). This individual must be in a position having responsibility for the overall operation of the regulated facility or activity. If the authorization is no longer accurate because a change in the individual or position with responsibility for the overall operation of the regulated facility or activity, a new authorization shall be submitted prior to or together with any reports or information to be signed by an authorized representative, such as this SWPPP and inspection reports, or other information requested by the VSMP Regulatory Authority or the DEQ.

The ***Duly Authorized Representative*** for this project will be:

Name: _____ Title: _____

Company: _____

Phone Number: _____ Email Address: _____

Date: _____

"I certify under penalty of law that I have read and understand this document and that this document and all attachments were prepared in accordance with a system designed to assure that qualified personnel properly gathered and evaluated 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."

"Furthermore, I have read and understand this Stormwater Pollution Prevention Plan and the information in this document and its attachments is to the best of my knowledge true, accurate and complete. In addition, I certify that I will fully implement this Plan and will maintain its accuracy and maintain on site at all times."

Duly Authorized Representative (Signature): _____

Operator's Certification:

"I certify that the Duly Authorized Representative named above is my duly authorized representative for this project. The Operator is in a position to have overall responsibility in a manner sufficient to implement the SWPPP. I also certify that the Operator named above has the delegated authority to sign inspection reports and/or amend or modify this SWPPP."

Operator (Signature): _____

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I. Introduction

A. Plan Purpose

This Stormwater Pollution Prevention Plan has been developed as a requirement of the Virginia Stormwater Management Program (VSMP) General Permit for Discharges of Stormwater from Construction Activities (VAR10), as defined in 9 VAC 25-880 et seq. The purpose of this Plan is to:

1. Identify and manage potential sources of pollution that may reasonably be expected to affect the quality of stormwater discharges from the construction site.
2. To describe and ensure the implementation of practices that will be used to reduce pollutants in stormwater discharges from the construction site and to ensure compliance with the conditions of the Permit.
3. To describe and ensure implementation of permanent stormwater management practices used to reduce pollutants in stormwater discharges on project sites to maintain compliance with the conditions of the Permit.
4. Document activities through inspections and maintenance measures for VSMP program compliance.

Implementation of the components of this Plan is required as a condition of the Permit (Appendix B). The Department of Environmental Quality (DEQ) has delegated authority to the City of Winchester to administer the VSMP program, therefore overseeing the implementation of this Plan.

B. Public Notification

Upon commencement of land disturbing activities, the operator shall conspicuously post a copy of the Notice of Coverage letter at the location of construction activity. The operator shall maintain the posted information until termination of the General Permit coverage as specified in Part I.F of the General Permit.

II. Plan Requirements

A. General Construction Activity Information

1. Site and Project Description
 - a. Project Name: Winchester Parks and Recreation Maintenance Building
 - b. Address: 1001 East Cork Street Winchester, VA
 - c. Latitude/Longitude 39.1691 N, -78.1540 W
 - d. Description of Construction Activity: This project consists of reconstruction of the maintenance building that serves Jim Barnett Park located within the city limits of Winchester, Virginia. The pre-engineered metal building portion of the existing shop building shall remain; with the remainder to be demolished and removed from site. A new pre-engineered, pre-manufactured, metal building garage and shop addition with concrete masonry unit (CMU) link and foundation system shall be constructed in its place. The existing site that serves this facility will be re-graded with stone to promote positive drainage for continued use. A new equipment shed will be added to this site for use with potential expansion. Additionally, provisions have been made in this design to add a future wash bay to the southern portion of the new shop area. The

construction shall include the construction of the maintenance building additions, the installation of curb and gutter, small handicap parking area, paved access to the yard, installation of topping stone to promote positive drainage, service utilities, site lighting and minor landscaping.

- e. Total Disturbed Acreage 0.72
- f. Pre-Construction Impervious Area _____
- g. Post-Construction Impervious Area _____

2. Receiving Waters

Name of Body of Water	Type	Impaired?
Abrams Creek		N

3. Support Activities Utilized

Activity	Offsite? (Y/N)
Equipment and Vehicle Washing	N
Storage Area (fuel, soaps, solvents, etc.)	N
Vehicle Fueling and Maintenance	N
Sanitary Waste Facilities	N
Construction Waste Storage	N

4. Plan Administration and Updates

- a. The Plan shall be certified in accordance with the Permit by the Authorized Representative. The Representative shall make the necessary revisions and additions to the Plan to conform to the construction methods and schedules prior to construction. Copies of the Plan and Permit shall be kept onsite and be made available to DEQ and the VSMP Regulatory Authority upon request. The Plan must also be available to all operators identified as having responsibilities to carry out provisions contained in the Plan.
- b. The Plan shall be amended by the Authorized Representative whenever there is a change in design, construction, operation, or maintenance of the construction site that has a significant effect on the potential for the discharge of pollutants to surface waters. The Plan shall also be updated whenever it is found to be ineffective in meeting the requirements of the Permit. The Plan shall be updated to identify any new contractor that will implement a measure of the Plan (Appendix A – Transfer of Ownership form).

B. Contractor Certification

1. All contractors and/or subcontractors who have responsibility for implementing and maintaining the controls identified in this Plan must sign the certification statement contained in Appendix H. The person signing the certification must meet the signatory requirements as presented in Section III K of the Permit (Appendix B). The certifications must be maintained in this SWPPP as part of the Plan. Qualified personnel are responsible for implementing, maintaining, recordkeeping, submitting reports, conducting inspections, employee training, signing the required certifications, etc.

Name and Company	Responsibility

2. The persons listed about are authorized with delegated authority in accordance with Section III K of the Permit (Appendix B) to sign inspections reports or modify the SWPPP.
3. The Plan shall be prepared prior to the submittal of the Registration Statement and shall provide for compliance with the terms and schedule of the Permit, beginning with the initiation of construction activities. For ongoing construction activity involving a change of operator, the new operator shall accept and maintain the existing SWPPP or prepare and implement a new SWPPP prior to taking over operations at the site.

C. *Specific Requirements*

1. Project Summary

General information regarding the site is listed in Part II.A of this SWPPP. The remaining items needed for operation and compliance of this SWPPP and Construction General Permit can be found in the project's Construction Documents, which are included in Appendix J of this Plan. An overall site map has been provided in Appendix C.

2. Erosion and Sediment Control Measures

The project provides implementation of various types of controls and measures to control pollutants in stormwater discharges from the project site. All controls utilized in this project were selected to meet or exceed State and Local requirements and detailed in the referenced design plans. The construction documents for this project contain detailed information regarding the various types of controls used in this project.

3. Pollution Prevention Practices

- a. All control measures will be implemented and maintained in accordance with the minimum standards in the *Virginia Erosion and Sediment Control Handbook*. Control measures will be routinely inspected and reports maintained with this SWPPP.
- b. Areas will be designated on-site for delivery and storage of materials if possible near construction entrances and away from waterways. Transport near drainage paths will also be avoided.
- c. All materials stored onsite during construction in varying amounts for varying durations will be covered when not in use, unless specifically noted.
- d. No solid materials, including building materials, garbage, and debris shall be discharged to surface waters of the State, except as authorized by a permit. The Contractor will regularly inspect the construction area and remove trash and construction debris.
- e. Materials will be used only when and where needed to complete the construction activity. Manufacturer recommendations will be followed regarding use, protective equipment, and any chemical mixing.
- f. Chemical and petroleum products will be stored in tightly sealed containers which are clearly labeled. Chemicals used on-site are to be kept in small quantities and stored in closed containers undercover and kept out of direct contact with stormwater.
- g. Concrete trucks will not wash out or discharge surplus material onsite unless done so in specific areas as noted in this SWPPP. Direct concrete wash water to a leak-proof container or leak-proof settling basin. Concrete wastes shall be removed and disposed of in a manner consistent with handling of other construction wastes.
- h. Discharges related to dewatering will be filtered using a filter bag or sand filter or will be settled in basin prior to release to waterways.
- i. Spill kits will be included with all fueling sources and maintenance activities.
- j. Portable sanitary facilities will be provided on-site for use by construction personnel and will be located away from water bodies or storm water drains. The facilities will be serviced by an authorized contractor. Any spills will be cleaned up in accordance with applicable regulations.
- k. All vehicles and equipment will receive regular preventive maintenance to reduce the chance of leakage.

- l. All vehicles and construction equipment will be inspected for leaks by the Contractor's personnel. All leaks must be fixed prior to operating equipment.
 - m. If equipment breaks down and/or leaks petroleum products or other pollutants onto the ground, the area will be cleaned of all contaminants.
 - n. On-site vehicle refueling will be conducted in a dedicated location away from access to surface waters. Any on-site storage tanks will have a means of secondary containment. In the event of a spill, it will be cleaned up immediately and the material, including any contaminated soil, will be disposed of according to all Federal, State, and Local regulations.
 - o. Vehicle and equipment washing will occur away from surface waters and stormwater inlets or conveyances. Direct wash water into sediment traps or basins or use a filtration device such as a filter bag or sand filter.
 - p. Pesticides and fertilizers will be applied only in the minimum amounts recommended by the manufacturer specifications. Pesticides and fertilizers will be stored in covered or sealed containers away from water bodies. Dry spills will be cleaned up promptly.
 - q. Convenient and well-maintained portable sanitary facilities will be provided and located away from waterways, stormwater inlets, or conveyances.
4. Significant Material Pollution Prevention
- The operator shall provide the necessary measures to minimize exposure, spills or release of non-stormwater related discharges as part of this Plan. Wastewater from activities such as concrete washout, paint or other construction equipment washing, fuels, oils, toxic or hazardous substances, soaps, detergents, or other similar materials as defined in Section I.D of the Permit shall not be discharged. Measures for minimizing exposure shall be provided as well as a plan for spill prevention and the associated downstream impacted outfall should a spill occur. All documents related to the material and the appropriate spill control measures and management plan should be included in this SWPPP as part of Appendix I – Significant Material Pollution Prevention Data.

Spill Notice (reports of spills or exposure of significant material require notification to the appropriate agency listed below):

City of Winchester Public Works: 540-665-5340 or 540-678-0682

DEQ (Valley Regional Office) 540-574-7800 or 540-574-7844

5. Impaired Waters/Exceptional Waters Measures
The receiving waters are not listed in DEQ's 2018 Impaired Waters List.
6. Maintenance
All control measures must be properly maintained in effective operating condition in accordance with good engineering practices or manufacturer specifications. Maintenance of the erosion and sediment controls and stormwater management facilities incorporated into this project must be maintained on a regular basis to assure their continued effectiveness. This includes repairs to all erosion and sediment controls and stormwater management facilities at their regular intervals. Those controls found to be ineffective during routine inspections shall be repaired before the next anticipated storm event or as soon as practicable.

7. Inspections

Qualified personnel, as allowed by DEQ, familiar with all aspects of the Plan and the employed control practices shall perform regular inspections of the construction site. Inspections shall include review of all disturbed areas, structural and non-structural control measures, material storage areas and vehicular access points. The operator is responsible for ensuring the qualified personnel conduct the inspection. Inspections shall be conducted as described in Section II.F.2 of the General Permit.

Inspections are intended to identify areas where the pollutant control measures at the site are ineffective and are allowing pollutants to enter surface waters. Receiving waters shall be inspected to ascertain whether control measures are effective in preventing significant impact. Locations where vehicles enter or exit the site shall be inspected for evidence of offsite sediment tracking.

If, as a result of the inspection, the site condition and/or control measures are found to have changed, the Plan shall be updated within a period of 7 days. If control measures need to be modified to assure effectiveness or if additional measures are determined to be necessary, implementation shall be completed prior to the next storm event or as soon as practicable.

A report summarizing the inspections and the subsequent maintenance activities must be completed and maintained as part of the Plan. The inspection reports are to be included in Appendix E.

The reports are to include the following:

- Summary of the scope of the inspection
- Names and qualifications of the inspecting personnel.
- Major observations relating to the implementation of the Plan which should include:
 1. Locations of discharges of sediment or other pollutants from the site, if applicable
 2. Locations of BMP's which require maintenance
 3. Locations of failed BMP's
 4. Locations where additional BMP's are needed
 5. Corrective action required including any changes to the SWPPP

The reports shall also include any incidents of non-compliance. If an inspection does not identify any incidents of non-compliance, then the report shall contain a certification that the facility is in compliance with the SWPPP and shall be signed in accordance with the Permit.

8. Corrective Measures

The operator shall address corrective measures per Section II.G of the General Permit. Corrective actions shall be implemented as soon as practicable, but no later than 7 days after discovery or a longer period as approved by the VSMP Authority.

9. Non-Stormwater Discharges

The Permit allows for non-stormwater discharges from specific operations as defined in Section I.E of the Permit and are listed in the table below. If the authorized representative determines other forms of allowable non-stormwater discharges are to be utilized as part of construction, the discharge must be identified, and use documented in the Plan. Appropriate measures must be taken to ensure that pollution prevention measures for the non-stormwater component of the discharge are implemented. Stormwater shall be defined to include all the following non-stormwater discharges provided pollution prevention controls for the non-stormwater component are provided through the designed E&S measures or added to the SWPPP.

- Discharges from fire hydrant flushing
- Potable water sources including water line flushing
- Fire system test water
- Irrigation drainage
- Lawn watering
- Routine building wash down which does not use detergents or other compounds
- Pavement wash water where contamination by toxic or hazardous materials have not occurred and where detergents are not used
- Water used to wash vehicles or equipment where soaps, solvents or detergents have not been used
- Air conditioning condensate
- Springs
- Uncontaminated groundwater
- Foundations of footing drains where flows are not contaminated with process materials