



# STANDARDS AND SPECIFICATION

Metropolitan Washington Airports Authority

Standards and Specification #SS025

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# STANDARDS AND SPECIFICATIONS AGREEMENT FOR METROPOLITAN WASHINGTON AIRPORTS AUTHORITY

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## I. Standards and Specifications Entity

Entity Name: Metropolitan Washington Airports Authority

Entity Address: 45045 Aviation Drive

City, State, and Zip Code: Dulles, VA 20166

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## II. Standards and Specifications Entity Type

The Metropolitan Washington Airports Authority (Airports Authority) is a public authority.

## III. Standards and Specifications Agreement Information

Agreement Date: November 2024

Date of Previously Approved Agreement: November 2023

Have there been any updates to your previous approved agreement? ☒ Yes ☐ No

#### IV. Certification Statement

“I certify under penalty of law that this agreement 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.”

Printed Name: Andrew Hascall, P.E.

Title: Vice President, Office of Engineering

Signature: \_\_\_\_\_

Date: \_\_\_\_\_

#### V. Administration

Per § 62.1-44.15:31 of the Code of Virginia, the Virginia Department of Transportation shall; any other state agency or federal entity may; and electric, natural gas, and telephone utility companies; interstate and intrastate natural gas pipeline companies; railroad companies; and authorities created pursuant to § 15.2-5102 of the Code of Virginia may submit standards and specifications, for approval by the Virginia Department of Environmental Quality (Department), who serves as the Virginia Erosion and Stormwater Management Program (VESMP) authority for all land-disturbing activities subject to approved standards and specifications. The Standards and Specifications Program is designed to provide a single set of standards and specifications, the Virginia Stormwater Management Handbook, Version 1.0, that describes how entities with approved standards and specifications conduct land-disturbing activities in a manner that will be consistent with the requirements of the Virginia Erosion and Stormwater Management Act (VESMA), Virginia Erosion and Stormwater Management Regulation, and the General Virginia Pollutant Discharge Elimination System (VPDES) Permit for Discharges of Stormwater from Construction Activities (Construction General Permit).

**Metropolitan Washington Airports Authority, hereinafter the “S&S Entity,” is responsible for administering, implementing, and complying with the standards and specifications for Erosion and Sediment Control (ESC) and Stormwater Management (SWM) set out in this agreement by following the design criteria in the Virginia Stormwater Management Handbook, Version 1.0, for projects involving land disturbing activities that are subject to the Erosion and Stormwater Management Program within the property boundaries of the facilities.**

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# STANDARDS AND SPECIFICATIONS

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## 1. Introduction

Projects involving land disturbing activities that are subject to the Virginia Erosion and Stormwater Management Regulation ([9VAC25-875](#)) shall be bound by the Metropolitan Washington Airports Authority's (Airports Authority) Standards and Specifications (S&S) for erosion and sediment control (ESC) and stormwater management (SWM).

The Airports Authority's S&S covers projects that are located within the property boundaries at the following locations:

- Ronald Reagan Washington National Airport (DCA) – Appendix A
- Washington Dulles International Airport (IAD) – Appendix B
- Dulles Toll Road (DTR) – Appendix C

## 2. Definitions

Words and terms are defined in [9VAC25-875-20](#) in accordance with the Virginia Erosion and Stormwater Management Regulation are applicable to the Airports Authority's S&S. The following definitions shall apply specifically to the Airports Authority S&S:

- "*Chesapeake Bay Preservation Area*" means any land designated by a local government pursuant to Part III ([9VAC25-830-70](#) et seq.) of the Chesapeake Bay Preservation Area Designation and Management Regulations and [§ 62.1-44.15:74](#) of the Code of Virginia. A Chesapeake Bay Preservation Area shall consist of a Resource Protection Area and a Resource Management Area as defined in the Chesapeake Bay Preservation Area Designation and Management Regulations ([9VAC25-830](#)). For the purpose of these S&S, projects within DCA are subject to this act. Projects located within IAD and/or DTR are not subject to this act.

## 3. Regulated Land Disturbing Activities

### 3.1 Virginia Erosion and Stormwater Management Handbook:

- 3.1.1 Land-disturbing activities that meet one of the criteria below are regulated as follows:
  - A. Land-disturbing activity that disturbs 10,000 square feet or more, is less than one acre, not in an area of a locality designated as a Chesapeake Bay Preservation Area, and not part of a common plan of development or sale, is subject to criteria defined in Article 2

([9VAC25-875-540 et seq.](#)) of Part V of the Virginia Erosion and Stormwater Management Regulation (Regulation).

- B. Land-disturbing activity that disturbs 2,500 square feet or more, is less than one acre, and in an area of a locality designated as a Chesapeake Bay Preservation Area is subject to criteria defined in Article 2 ([9VAC25-875-540 et seq.](#)) and Article 3 ([9VAC25-875-570 et seq.](#)) of Part V of the Regulation unless Article 4 ([9VAC25-875-670 et seq.](#)) of Part V is applicable, as determined in accordance with [9VAC25-875-480](#) and [9VAC25-875-490](#).
- C. Land-disturbing activity that disturbs less than one acre, but is part of a larger common plan of development or sale that disturbs one acre or more, is subject to criteria defined in Article 2 ([9VAC25-875-540 et seq.](#)) and Article 3 ([9VAC25-875-570 et seq.](#)) of Part V of the Regulation unless Article 4 ([9VAC25-875-670 et seq.](#)) of Part V is applicable, as determined in accordance with [9VAC25-875-480](#) and [9VAC25-875-490](#).
- D. Land-disturbing activity that disturbs one acre or more is subject to criteria defined in Article 2 ([9VAC25-875-540 et seq.](#)) and Article 3 ([9VAC25-875-570 et seq.](#)) of Part V of the Regulation unless Article 4 ([9VAC25-875-670 et seq.](#)) of Part V is applicable, as determined in accordance with [9VAC25-875-480](#) and [9VAC25-875-490](#).

- 3.1.2 Land-disturbing activities exempt per [9VAC25-875-90](#) are not required to comply with the requirements of the VESMA unless otherwise required by federal law.

### 3.2 Airports Authority Applicability

In accordance with Section 3.1, the tables below provide an overview of the regulatory requirements for each location:

Land Disturbing Projects at DCA				
Land Disturbance	S&S	ESC	SWM	CBPA 9VAC25-875-260
<2,500 SF	NO	NO**	NO	NO
2,500 – < 1 Acre	YES	YES	YES	YES
≥ 1 Acre*	YES	YES	YES	YES

Land Disturbing Projects at IAD/DTR				
Land Disturbance	S&S	ESC	SWM	CBPA 9VAC25-875-260
<10,000 SF	NO	NO**	NO	NO
10,000 SF – < 1 Acre	YES	YES	NO	NO
≥ 1 Acre*	YES	YES	YES	NO



\*Note: Permit conditions in [9VAC25-880](#) are applicable to these projects. This excludes routine maintenance projects.

\*\*The Airports Authority has the right to request an ESC plan for any land disturbance area regardless of threshold.

#### **4. Certified Personnel**

##### **4.1 Virginia Erosion and Stormwater Management Handbook:**

- 4.1.1 The S&S Entity's administrator shall be responsible for the management and coordination of this standards and specifications agreement and shall be certified as a Dual Combined Administrator as outlined in [9VAC25- 875-400](#).
- 4.1.2 Plan Reviewers shall review all ESC and SWM plans for compliance with this standards and specifications agreement and all applicable laws and regulations. Plan reviewers shall be certified as a Plan Reviewer for ESC and a Plan Reviewer for SWM or as a Dual Plan Reviewer, as outlined in [9VAC25-875-400](#).
- 4.1.3 Compliance inspectors shall be responsible for the inspection and compliance of ESC, SWM, and stormwater pollution prevention plan practices. They shall be certified as an Inspector for ESC and an Inspector for SWM or as a Dual Inspector, as outlined in [9VAC25-875-400](#).

##### **4.2 Airports Authority S&S Personnel**

- 4.2.1 The Airports Authority Environmental and Sustainability Department shall be the authority for administering the Airports Authority projects under the Airports Authority's S&S for stormwater management and erosion/sediment control.
  - A. S&S Administrator shall have the overall management and coordination responsibilities for the Airports Authority's S&S program. This person will reside within the Environmental and Sustainability Department.
  - B. SWM/ESC Plan Reviewers (Reviewers) shall be responsible for reviewing plans to ensure compliance with the Airports Authority's S&S and applicable SWM/ESC laws and regulations. The Reviewers shall be VDEQ certified as a Plan Reviewer for ESC, SWM, or as a Dual Plan Reviewer, as applicable, or have a provisional certification for one year from day of first training course to complete required training courses and obtain a passing score on the certification exam. The Reviewers shall be responsible for review and approval of ESC plan and SWM plan. The Reviewers must state in writing the reason(s) for disapproval of the SWM

and/or ESC Plan and specify the modifications, terms, and conditions necessary for plan approval.

- C. SWM/ESC Inspectors (Inspectors) shall have the responsibility for the inspection and compliance of ESC, SWM, and stormwater pollution prevention plan practices in accordance with associated laws, regulations, and S&S. The Inspectors shall be responsible for conducting the required inspections in accordance with the Virginia Erosion and Stormwater Regulation and in accordance with Section 14.0 of the Airports Authority's S&S.

## **5. Review and Approval of Plans**

### **5.1 Virginia Erosion and Stormwater Management Handbook:**

- 5.1.1 The S&S Entity has the authority to approve soil erosion control and stormwater management (ESM) plans, except for activities not required to comply with the requirements of the Virginia Erosion and Stormwater Management Act (VESMA), under § [62.1-44.15:34](#) of the Code of Virginia. The ESM plan is a document describing methods for controlling soil erosion and managing stormwater in accordance with the requirements adopted pursuant to the VESMA. The ESM plan may consist of aspects of the erosion and sediment control plan and the stormwater management plan as each is described in the Virginia Erosion and Stormwater Management Regulation. ([9VAC25-875-20](#)).
- 5.1.2 ESM plans must be approved in writing. If a third party is used to fulfill the certification of the plan reviewer, the third-party reviewer may recommend approval to the S&S Entity; however, the S&S Entity formally approves the plan in writing. The date of the approvable plan should be noted in the approval letter signed by the S&S Entity's certified plan reviewer.
- 5.1.3 Plans must be reviewed and approved by Department-certified personnel, as outlined in [9VAC25-875-400](#), to ensure compliance with these Standards and Specifications for ESC and SWM and reviewed by the S&S Entity for consistency with the Virginia Stormwater Management Handbook, Version 1.0, and applicable permit and regulatory requirements.
- 5.1.4 The Department may require changes to an approved ESM plan in the following cases:
  - A. Where inspection has revealed that the plan is inadequate to satisfy applicable regulations or ordinances; or
  - B. Where the S&S Entity finds that because of changed circumstances, or for other reasons, the plan cannot be effectively carried out and proposed amendments to the plan, consistent with the requirements of the VESMA, are agreed to by the department, as the VESMP authority, and the S&S Entity.

## **5.2 Airports Authority Review and Approval of Plans:**

- 5.2.1 Site specific ESC and/or SWM Plans shall be prepared for projects involving regulated land disturbing activity. Site specific ESC and/or SWM Plans shall be submitted to the Airports Authority's S&S Administrator for review. Checklists that summarize the required components of each plan can be found in the checklists referenced below. The Airports Authority may include additional checklists and cover sheet requirements, as necessary.
  - A. ESC Plan Preparer's Checklist (Appendix D)
  - B. SWM Plan Preparer's Checklist (Appendix E)
- 5.2.2 The S&S Administrator will provide the plans to the appropriate Reviewer.
  - A. The Reviewer shall have thirty (30) days to review the plan and provide written comments to the Airports Authority's S&S Administrator.
  - B. If the Reviewer approves the plan(s), the Airports Authority's S&S Plan Reviewer develops an approval letter on Airports Authority letterhead that references the title and date of the approved plans.
  - C. The Reviewer will stamp the final stamped and sealed by the Engineer of Record copy of the appropriate plans.
  - D. The S&S Administrator may fill both roles, Administrator and Plan Reviewer, if certified as Dual Combined Administrator.
- 5.2.3 An approved plan may be changed by the Airports Authority's Environmental and Sustainability Department in the following circumstances:
  - A. Where inspection has revealed that the plan is inadequate to satisfy applicable regulations or ordinances; or
  - B. Where changes in circumstances, or for other reasons, the plan cannot be effectively carried out and proposed amendments to the plan, consistent with the requirements of this article, are agreed to by the plan approving authority and the person responsible for carrying out the plan.
- 5.2.4 Revisions to an approved ESC and/or SWM plan must be submitted in writing to the S&S Administrator for review.
  - A. If minor changes or "redline" are required, the Inspectors may check and sign off on the changes.
  - B. Formal plan revision are necessary when the changes involve engineered controls (i.e., sediment trap or basin) or a reduction in the level or quantity of ESC and/or SWM. The Engineer of Record will revise the ESC and/or SWM and provide to the S&S Administrator. The S&S Administrator will provide the revisions to the Reviewer. The Reviewer will provide comments or approval to the S&S Administrator.

- 1) Revisions shall not be considered approved until written notice is provided by the S&S Administrator.
- 2) Revisions must comply with the Airports Authority's S&S.

## **6. Erosion and Sediment Control Plan – Contents of Plans**

### **6.1 Virginia Erosion and Stormwater Management Handbook:**

- 6.1.1 The S&S Entity shall prepare an erosion and sediment control plan for its land-disturbing activities. The erosion and sediment control plan shall contain all major conservation decisions to ensure that the entire unit or units of land will be treated to achieve the conservation objectives in [9VAC25-875-560](#). The erosion and sediment control plan shall be prepared in accordance with [9VAC25-875-550](#) and be consistent with design criteria in the Virginia Stormwater Management Handbook, Version 1.0.
- 6.1.2 The person responsible for carrying out the plan shall provide the name of an individual holding a certificate who will be in charge of and responsible for carrying out the land-disturbing activity to the Department.

### **6.2 Airports Authority ESC Plan Contents**

- 6.2.1 Complete erosion and sediment control plans shall be provided in the construction documents and include, but not limited to, the following:
  - A. The ESC Plan Preparer's Checklist (Appendix D) signed/sealed by Engineer of Record.
  - B. Plan Narrative including project description, existing site conditions, adjacent properties, off-site areas, soils, critical areas, ESC measures, construction sequence, permanent stabilization, stormwater runoff considerations, and calculations.
  - C. Minimum standards 1 through 19 as defined in [9VAC25-875-560](#) shall be listed in the construction plans. Methodology shall be provided regarding compliance with each of the minimum standards.
  - D. Construction sequence of operations shall be defined on the construction plans with staged implementation of erosion and sediment control measures for each phase. The area which may be disturbed in each phase shall be set forth in the construction plans.
  - E. Construction plans shall provide information on the maintenance of construction best management practices (C-BMPs). Reference to the VSWHB specifications.

- F. Construction plans shall include the amount of disturbed area listed per phase and proposed land cover change pre-construction versus post-construction.
  - G. Construction plans detailing, but not limited to, the following:
    - 1) A cover sheet that shows the location of the project site and adjacent areas;
    - 2) A soil map;
    - 3) A map showing the drainage areas and general drainage directions on the site;
    - 4) A site map showing the original conditions;
    - 5) A plat showing the proposed development, including ESC or ESM plans, as applicable;
    - 6) A sheet with details on the C-BMPs.
  - H. Stockpile/lay down area(s) and trailer location(s) shall be provided in the construction drawings. Details shall be included regarding type of work and proposed C-BMPs within the stockpile/lay down area(s).
  - I. Profiles shall be included for closed and open storm systems. The profile shall include the existing surface, proposed water elevations, pipes, pipe crossings, and hydraulic grade lines. Surcharges shall be clearly indicated on the profile.
  - J. Land disturbing activity occurring at a separate location shall be included in the plan or in a separate approved plan.
- 6.2.2 Proposed C-BMPs will be in accordance with Chapter 7 of the Virginia Stormwater Management Handbook (VSWHB) along with accompanying technical documents and guidance.
- A. If proposed construction BMPs are not included in the Virginia Stormwater Management Handbook, their use will be reviewed and approved by the applicable VDEQ Regional Office on a project specific basis.
  - B. The Airports Authority has included a list of specifications for construction BMPs not included in the VSWHB for use on construction projects in Appendix F.
  - C. Should non-VSWHB control measure fail to effectively control soil erosion and/or sediment disposition, then construction BMPs as outlined in the Virginia Stormwater Management Handbook shall be utilized.

- 6.2.3 A Responsible Land Disturber (RLD) shall be designated prior to initiating the land disturbing activity.

## **7. Erosion and Sediment Control Variances and Exceptions**

### **7.1 Virginia Erosion and Stormwater Management Handbook:**

- 7.1.1 The Department may waive or modify any of the standards that are deemed to be inappropriate or too restrictive for site conditions, by granting a variance. A variance may be granted under these conditions:
- A. Prior to construction, the S&S Entity may request a variance to become part of the approved erosion and sediment control plan. The S&S Entity shall explain the reasons for requesting variances in writing. Specific variances which are allowed by the Department shall be documented in the plan.
  - B. During construction, the person responsible for implementing the approved plan may request a variance in writing from the Department. The Department shall respond in writing either approving or disapproving such a request. If the department does not approve a variance within 10 days of receipt of the request, the request shall be considered disapproved. Following disapproval, the applicant may resubmit a variance request with additional documentation.

### **7.2 Airports Authority Exemptions**

- 7.2.1 Exemptions to the Virginia Erosion and Stormwater Management Regulations are specified in [9VAC25-875-90](#). Under the S&S program, the following additional activities are considered exempt for ESC requirements:
- A. Disturbed land areas of less than 10,000 square feet or 2,500 square feet in areas of the jurisdictions designated as subject to the Chesapeake Bay Preservation Area.
  - B. Installation of fence posts, signposts, telephone poles, electric poles, and other kinds of posts or poles.
  - C. The removal and replacement of existing pavement or milling and overlaying within the same footprint that does not expose the subgrade (i.e. soil) is not considered land-disturbing activity under ESC.
    - 1) The area of such pavement replacement would not be included with other land-disturbing areas of the project for purposes of determining applicability of the regulations, compliance computations, and the VPDES General Construction Permit.
    - 2) Where the project contains milling and overlay within the same footprint in conjunction with other improvements (e.g. adding

additional lanes to a roadway facility), the milling and/or overlaying is not considered a land-disturbing activity under ESC provided the following conditions are met:

- a) The milling and/or overlay compliance with the requirements in this Section and
  - b) The milling and/or overlay does not expose the subgrade.
- 3) The removal and/or replacement of concrete panels and mill/overlay of existing pavement that does disturb the subgrade (i.e. native soils) is considered land disturbing activity for ESC. This specific type of construction activity is considered routine maintenance, see Section 15.2 for additional details.

### 7.3 Airports Authority Variances

- 7.3.1 Requests for project specific variances to the Airports Authority's S&S for ESC and/or SWM shall be sent by the design professional to the Airports Authority S&S Administrator and shall be accompanied by complete details and documentation, including justification for the requested variance and impacts associated with the variance request.
- A. If determined to be appropriate by the S&S Administrator and the Reviewer, then the Airports Authority S&S Administrator will send the variance request to the VDEQ Central Office for review and approval.
  - B. All requested variances will be considered unapproved until written approval from VDEQ is received.
  - C. Approved variances shall be listed in the General Notes section of the ESC and/or SWM plans for land disturbing activities and included in narrative.
- 7.3.2 For Linear Projects, as defined by [9VAC25-875-20](#), each project shall be reviewed for consistency with the VDEQ Guidance Memorandum No. 15-2003, *Guidance for Linear Utility Projects* or latest VDEQ Guidance for Linear Utility Projects. The guidance document provides a number of conditions which must be satisfied for linear projects if a Stormwater Management Plan will not be required.
- A. For linear projects requesting a waiver of Stormwater Management Plan, the Airports Authority will require information be submitted that reasonably demonstrates that the project will not significantly change the pre-development runoff characteristics of the land surface after the



completion of construction and final stabilization. Information to be submitted includes, but is not limited to:

- 1) Pre- and post-construction drainage areas land cover conditions.
  - 2) Limits of disturbance.
  - 3) Plan for restoring land cover to pre-development conditions.
  - 4) Erosion and Sediment Control plan, excluding [9VAC25-875-560.19.m. & n.](#)
- B. Waiver information will be submitted to the Airports Authority with a transmittal letter that specifically requests a Stormwater Management Plan waiver. The Airports Authority will evaluate each request on an individual basis.
- C. If the Airports Authority agrees that the project is linear, the Airports Authority S&S Administrator will sign and submit a Stormwater Management waiver request letter and associated documentation to VDEQ. Additional documentation may be requested from the Engineer of Record by the Airports Authority or VDEQ to complete the waiver request.
- D. If VDEQ grants the waiver, VDEQ will waive the requirements for the preparation and implementation of a stormwater management plan. The waiver will include the following stormwater management requirements:
- 1) Stormwater Quality;
  - 2) Stormwater Management Quantity;
  - 3) Erosion and Sediment Control Minimum Standard MS-19.

## **8. Stormwater Pollution Prevention Plan Contents**

### **8.1 Virginia Erosion and Stormwater Management Handbook:**

- 8.1.1 A stormwater pollution prevention plan shall include, but not be limited to, an approved erosion and sediment control plan, an approved stormwater management plan, a pollution prevention plan for regulated land-disturbing activities, and a description of any additional control measures necessary to address a total maximum daily load (TMDL) pursuant to [9VAC25-875-500 E.](#)
- 8.1.2 An erosion and sediment control plan consistent with the requirements of [9VAC25-875-550](#) must be designed and implemented during construction activities. Prior to land disturbance, this plan must be approved by a Plan Reviewer for ESC or a Dual Plan Reviewer.
- 8.1.3 A stormwater management plan consistent with the requirements of [9VAC25-875-510](#) and the design criteria in the Virginia Stormwater Management Handbook, Version 1.0, must be designed and implemented during



construction activities. Prior to land disturbance, this plan must be approved by a Plan Reviewer for SWM or a Dual Plan Reviewer.

- 8.1.4 A pollution prevention plan that complies with [9VAC25-875-520](#) and identifies potential sources of pollutants that may reasonably be expected to affect the quality of stormwater discharges from the construction site and describes control measures that will be used to minimize pollutants in stormwater discharges from the construction site must be developed before land disturbance commences.
- 8.1.5 In addition to the requirements of subsections A through D of this section, if a specific wasteload allocation for a pollutant has been established in an approved TMDL and is assigned to stormwater discharges from a construction activity, additional control measures that are consistent with the Virginia Stormwater Management Handbook, Version 1.0, must be identified and implemented by the operator so that discharges are consistent with the assumptions and requirements of the wasteload allocation.
- 8.1.6 The stormwater pollution prevention plan must address the requirements specified in [40 CFR 450.21](#), to the extent otherwise required by state law or regulations and any applicable provisions of a state permit:
  - A. Control stormwater volume and velocity within the site to minimize soil erosion;
  - B. Control stormwater discharges, including both peak flow rates and total stormwater volume, to minimize erosion at outlets and to minimize downstream channel and stream bank erosion;
  - C. Minimize the amount of soil exposed during construction activity;
  - D. Minimize the disturbance of steep slopes;
  - E. Minimize sediment discharges from the site. The design, installation, and maintenance of erosion and sediment controls must address factors such as the amount, frequency, intensity, and duration of precipitation, the nature of resulting stormwater runoff, and soil characteristics, including the range of soil particle sizes expected to be present on the site;
  - F. Provide and maintain natural buffers around surface waters, direct stormwater to vegetated areas to increase sediment removal and maximize stormwater infiltration, unless infeasible;
  - G. Minimize soil compaction and, unless infeasible, preserve topsoil;
  - H. Stabilization of disturbed areas must, at a minimum, be initiated immediately whenever any clearing, grading, excavating, or other earth-disturbing activities have permanently ceased on any portion of the site, or temporarily ceased on any portion of the site and will not resume for a period exceeding 14 calendar days. Stabilization must be completed within a reasonable period of time or as otherwise determined by the department. In arid, semiarid, and drought-stricken areas where initiating vegetative stabilization measures immediately is infeasible, alternative stabilization measures must be employed as specified by the Department; and

- I. Utilize outlet structures that withdraw water from the surface, unless infeasible, when discharging from basins and impoundments.
- 8.1.7 The stormwater pollution prevention plan shall be amended whenever there is a change in design, construction, operation, or maintenance that has a significant effect on the discharge of pollutants to state waters and that has not been previously addressed in the plan. The stormwater pollution prevention plan must be maintained at a central onsite location. If an onsite location is unavailable, notice of the stormwater pollution prevention plan's location must be posted near the main entrance at the construction site.

## **9. Stormwater Management Plan Contents**

### **9.1 Virginia Erosion and Stormwater Management Handbook:**

- 9.1.1 A stormwater management plan shall be developed and implemented as approved or modified by the Department-certified plan reviewer and shall be developed in accordance with the following:
  - A. A stormwater management plan for a land-disturbing activity shall apply the stormwater management technical criteria outlined in Article 3 ([9VAC25-875-570 et seq.](#)) of Part V of the Regulation to the entire land-disturbing activity.
  - B. A stormwater management plan shall consider all sources of surface runoff and all sources of subsurface and groundwater flows converted to surface runoff; and
  - C. Best management practices in the stormwater management plan are consistent with design criteria in the Virginia Stormwater Management Handbook, Version 1.0.
- 9.1.2 A complete stormwater management plan shall address all requirements of [9VAC25-875-510](#).
- 9.1.3 All final plan elements, specifications, or calculations of the stormwater management plans whose preparation requires a license under Chapter 4 (§ 54.1-400 et seq.) or 22 (§ 54.1-2200 et seq.) of Title 54.1 of the Code of Virginia shall be appropriately signed and sealed by a professional who is licensed to engage in practice in the Commonwealth of Virginia. Nothing in this subsection shall authorize any person to engage in practice outside his area of professional competence.

### **9.2 Airports Authority SWM Plan Contents**

- 9.2.1 SWM Plans shall include a signed/sealed by Engineer of Record SWM Plan Preparer's Checklist (Appendix E)
- 9.2.2 The plan must include, but not limited to, the following elements:

- A. Information on the type of and location of stormwater discharges, information on the features to which stormwater is being discharged including pre-development and post-development drainage areas.
- B. Contact information including: name, address, telephone number, and email address of the owner. Tax reference number and parcel number of the property or properties affected.
- C. Narrative, including description of current site conditions and final site conditions.
- D. General description of the proposed post-construction best management practices (P-BMPs) and the mechanisms through which the facilities will be operated and maintained after construction is complete.
- E. Information on the proposed P-BMPs including:
  - 1) Detailed narrative of the conversion to a long-term stormwater management facility if it was used as a temporary ESC measure during construction;
  - 2) Type of P-BMPS or practice;
  - 3) Location, including geographic coordinates;
  - 4) Acres treated; and
  - 5) Surface waters into which the practice will discharge.
- F. Hydrologic and hydraulic computations, including runoff characteristics.
- G. Documentation and calculations verifying compliance with the water quality and quantity requirements of the Regulation.
- H. Map(s) of the site that depict the topography of the site and includes:
  - 1) All contributing drainage areas;
  - 2) Existing streams, ponds, culverts, ditches, wetlands, other water bodies, and floodplains;
  - 3) Soil types, geologic formations/karst features, if present, forest cover, and other vegetative areas;
  - 4) Current land use including existing structures, roads, and locations of known utilities and easements;
  - 5) Sufficient information on adjoining parcels to assess the impacts of stormwater from the site on these parcels;
  - 6) Limits of clearing and grading, and the proposed drainage patterns on the site;
  - 7) Proposed buildings, roads, parking areas, utilities, and P-BMPs; and

- 8) Proposed land use with tabulation of the percentage of surface area to be adapted to various uses, including planned location of utilities, roads, and easements
- I. Letter of availability from the off-site provider if using off-site compliance options. Nutrient credits must be obtained, i.e. purchased, prior to application for the VDEQ Construction General Permit (VAR10).
- 9.2.3 Record drawings for the plan must be appropriately sealed and signed by a professional registered in Virginia.
- 9.2.4 For purposes of water quality and quantity calculations, the outfalls along the boundary of DCA are considered man-made for the purposes of downstream analysis.
- 9.2.5 Solar Array Projects shall be developed in accordance with the guidance in the VSWHB Chapter 6.
  - A. Project shall be phased so that no more than 100 acres should be disturbed at any one time, unless otherwise approved by DEQ. This applies to areas that have not been either temporarily or permanently stabilized. Stabilized areas will not count toward the 100-acre land disturbance limit.

### **9.3 Airports Authority Exemption from Stormwater Management requirement**

- 9.3.1 In accordance with the Virginia Erosion and Stormwater Management Regulations ([9VAC25-875-90](#)), routine maintenance activities are required to comply with soil erosion control requirements but are not required to comply with the water quantity and quality technical criteria, unless otherwise required by federal law.
  - A. Routine maintenance is defined as work that is performed to maintain the original line and grade, hydraulic capacity, or original construction of the project. Such activities include, but not limited to: ditch cleaning operations, shoulder grading, pipe replacement or rehabilitation operations, bridge deck replacement, airfield panel repair/replacement, pavement structure replacement, and the normal operational procedures for maintaining the travel surface of unpaved/gravel roadways if performed in accordance with [§62.1-44.15:34 et. seq.](#)
  - B. The removal and replacement of existing pavement within the same footprint that does expose the subgrade (i.e. native soil) is considered land-disturbing activity under ESC but is considered routine maintenance

under Stormwater Management. Stormwater quantity shall be addressed under MS-19 if a project meets the CBPA or the ESC thresholds.

- 1) In order to show compliance with MS-19, the Designer shall provide runoff curve number (RCN) Computations for pre and post development conditions demonstrating no impact to downstream conditions.

## **10. Pollution Prevention Plan Contents**

### **10.1 Virginia Erosion and Stormwater Management Handbook:**

- 10.1.1 A plan for implementing pollution prevention measures during construction activities shall be developed, implemented, and updated as necessary. The pollution prevention plan shall detail the design, installation, implementation, and maintenance of effective pollution prevention measures as specified in 40 CFR 450.21(d) to minimize the discharge of pollutants. At a minimum, such measures must be designed, installed, implemented, and maintained to:
  - A. Minimize the discharge of pollutants from equipment and vehicle washing, wheel wash water, and other wash waters. Wash waters must be treated in a sediment basin or alternative control that provides equivalent or better treatment prior to discharge;
  - B. Minimize the exposure of building materials, building products, construction wastes, trash, landscape materials, fertilizers, pesticides, herbicides, detergents, sanitary waste, and other materials present on the site to precipitation and to stormwater; and
  - C. Minimize the discharge of pollutants from spills and leaks and implement chemical spill and leak prevention and response procedures.
- 10.1.2 The pollution prevention plan shall include effective best management practices to prohibit the following discharges in accordance with 40 CFR 450.21(e):
  - A. Wastewater from washout of concrete, unless managed by an appropriate control;
  - B. Wastewater from washout and cleanout of stucco, paint, form release oils, curing compounds, and other construction materials;
  - C. Fuels, oils, or other pollutants used in vehicle and equipment operation and maintenance; and
  - D. Soaps or solvents used in vehicle and equipment washing.
- 10.1.3 Discharges from dewatering activities, including discharges from dewatering of trenches and excavations, are prohibited unless managed by appropriate controls in accordance with [40 CFR 450.21\(c\)](#).

## **11. Technical Criteria for Regulated Land-Disturbing Activity**

### **11.1 Virginia Erosion and Stormwater Management Handbook:**

- 11.1.1 To protect the quality and quantity of state water from the potential harm of unmanaged stormwater runoff resulting from land-disturbing activities, the S&S Entity shall adhere to the technical criteria for regulated land-disturbing activities set forth in Part V of the Regulation expressly to include [9VAC25-875-580](#) [water quality design criteria requirements]; [9VAC25-875-590](#) [water quality compliance]; [9VAC25-875-600](#) [water quantity]; [9VAC25-875-610](#) [offsite compliance options]; [9VAC25-875-620](#) [design storms and hydrologic methods]; [9VAC25-875-630](#) [stormwater harvesting]; [9VAC25-875-640](#) [linear development project]; and, [9VAC25-875-650](#) [stormwater management impoundment structures or facilities], which shall apply to all land-disturbing activities, except as expressly set forth in [9VAC25-875-490](#).
- 11.1.2 The S&S Entity shall submit documentation that offsite options, approved by the Department or applicable state board, that are required to achieve the necessary phosphorous water quality reductions have been obtained prior to the commencement of the land-disturbing activity (i.e., prior to issuance of the permit). In the case of a phased project, the land disturber may acquire or achieve the offsite nutrient reductions prior to the commencement of each phase of the land-disturbing activity in an amount sufficient for each such phase.

### **11.2 Airports Authority Technical Criteria for Regulated Land Disturbing Activities**

- 11.2.1 Although not anticipated, any land disturbing activity carried out outside of Airports Authority's property and in another locality with a local Virginia Erosion and Stormwater Management Program (VESMP) and/or Virginia Stormwater Management Program (VSMP) authority with technical requirements with more stringent regulations than those of the state program, the plan(s) will be consistent with the requirements of the local program(s).

## **12. Long-Term Maintenance of Permanent Stormwater Facilities**

### **12.1 Virginia Erosion and Stormwater Management Handbook:**

12.1.1 The S&S Entity shall submit a construction record drawing for permanent stormwater management facilities to the VESMP authority based on the locality where the land-disturbing activity will occur. The record drawing shall contain a statement signed by a professional registered in the Commonwealth of Virginia pursuant to Chapter 4 (§ 54.1-400 et seq.) of Title 54.1 of the Code of Virginia, stating that to the best of the professional's knowledge, the construction record drawing shows all adjustments and revisions to the stormwater management plan made during construction and serve as a permanent record of the actual location of all constructed elements.

12.1.2 The provision of long-term responsibility for and maintenance of stormwater management facilities and other techniques specified to manage the quality or quantity of runoff is required. Such requirements shall be set forth in a maintenance agreement which is recorded in the local land records prior to permit termination or earlier and shall at a minimum:

- A. Be submitted to the VESMP authority for review and approval prior to the approval of the stormwater management plan;
- B. Be stated to run with the land;
- C. Provide for all necessary access to the property for purposes of maintenance and regulatory inspections;
- D. Provide for inspections and maintenance and the submission of inspection and maintenance reports to the VESCP, or VESMP authority; and
- E. Be enforceable by all appropriate governmental parties.

### **12.2 Airports Authority Long-Term Maintenance of P-BMPs**

12.2.1 The Airports Authority is responsible for the long-term maintenance of P-BMPs that are constructed within the Airports Authority property.

12.2.2 P-BMPs installed under tenant projects will require long-term maintenance agreements. The maintenance agreement will be between the Airports Authority and the tenant. At a minimum, the maintenance agreement shall:

- A. Be submitted to the Airports Authority for review and approval prior to the approval of the Stormwater Management Plan;
- B. Be stated to run with the land;
- C. Provide for necessary access to the property for maintenance and regulatory inspections;

- D. Provide for inspections and maintenance and submission of inspections and maintenance reports to the Airports Authority; and
- E. Be enforceable by the Airports Authority, VDEQ, and the lease language.

### **13. Project Tracking and Reporting**

#### **13.1 Virginia Erosion and Stormwater Management Handbook:**

- 13.1.1 The S&S Entity is responsible for providing project tracking and electronic notifications to the Department of all regulated land-disturbing activities subject to this standards and specifications agreement to comply with the applicable ESC and SWM requirements pursuant to [9VAC25-875-830 D 6](#).
- 13.1.2 The S&S Entity must electronically notify the Department of any land-disturbing activities subject to approved standards and specifications that the S&S Entity intends to construct in Virginia prior to initiating land disturbance. The following information is required to be included in the electronic notification two weeks prior to initiating the regulated land-disturbing activity:
  - A. Project name and any associated Construction General Permit number;
  - B. Project location (including nearest intersection, latitude and longitude, or access point);
  - C. On-site project manager name and contact information;
  - D. Responsible Land Disturber (RLD) name and contact information;
  - E. Project description;
  - F. Acreage of disturbance for the project;
  - G. Anticipated project start and finish date; and
  - H. Any deviations/variances/exemptions/waivers associated with the project.
- 13.1.3 In addition to the prior land disturbance notification described above, the S&S Entity shall submit to the Department bi-annual linear project tracking of all active projects covered under this standards and specifications agreement from the last six months (including those previously reported). This bi-annual linear project tracking must include the acreage for all listed projects and shall be submitted by January 15th and July 15th of each year to the Department.

#### **13.2 Airports Authority Project Tracking and Reporting**

- 13.2.1 The Airports Authority's Environmental and Sustainability Department will track regulated land disturbing activities.

### **14. Monitoring, Inspection, and Enforcement**

#### **14.1 Virginia Erosion and Stormwater Management Handbook:**

- 14.1.1 The S&S Entity or its designated inspector shall perform periodic inspections of the land-disturbing activity during construction for:
  - A. Compliance with the approved erosion and sediment control plan;



- B. Compliance with the approved stormwater management plan;
  - C. Development, updating, and implementation of a pollution prevention plan;
  - D. Compliance with these Standards and Specifications.;
  - E. Compliance with the permit, if applicable; and
  - F. Development and implementation of additional control measures necessary to address a TMDL.
- 14.1.2 Periodic inspections are the responsibility of the S&S Entity and shall be conducted by an Inspector for ESC and Inspector for SWM or a Dual Inspector, as outlined in [9VAC25-875-400](#).
- 14.1.3 The Department will conduct periodic inspections on all projects during construction, including random inspections and inspections in response to complaints. Where inspections by Department personnel reveal deficiencies in carrying out an approved plan, the Department may take enforcement actions in accordance with the VESMA and related regulations.

#### **14.2 Airports Authority ESC Inspection Requirements**

- 14.2.1 In accordance with [9VAC25-875-330](#), B., 1., inspections are required:
- A. During, or immediately following, initial installation of erosion and sediment controls;
  - B. At least once every two-week period and within 48 hours following any runoff producing storm event; and
  - C. At the completion of project, prior to the release of any performance bonds.
- 14.2.2 Inspection report provided in Appendix G shall be used during each site inspection. Problems and violations shall be documented on the inspection report. Inspection reports shall specify a corrective action for each problem or violation noted and a date the corrective action must be completed. A copy of the inspection report shall be provided to the project staff and S&S Administrator within a timely manner, not to exceed 72 hours after the completion of the inspection.
- 14.2.3 After installation of ESC measures, an initial ESC inspection shall be conducted and the Inspection Report provided to the S&S Administrator for review and acceptance prior to the start of any land disturbing activity. The S&S Administrator reserves the right to request a site visit to confirm any aspect of the installed ESC measures prior to acceptance to start land disturbing activities.

### **14.3 Airports Authority SWM Inspection Requirements**

- 14.3.1 P-BMPs Inspections will be conducted during the construction and establishment of the P-BMP utilizing the forms provided in the VSWHB and the Airports Authority, as applicable. P-BMPs facility record drawings shall be provided to the Airports Authority with Certification Form included in Appendix H.
- 14.3.2 P-BMPs shall be inspected at least annually to evaluate the condition and performance of the P-BMP. Inspection reports will utilize either the BMP Checklist from the VSWHB Appendix H or an inspection checklist developed by the designer.
  - A. Tenant P-BMPs will be inspected in accordance with the maintenance agreement and copies shall be provided the Airports Authority's Environmental/Sustainability Department.

### **14.4 Airports Authority Enforcement Requirements**

- 14.4.1 When violations noted on written inspection reports remain during subsequent inspections, a Notice to Comply will be issued by the Environmental/Sustainability Department. The Notice to Comply will contain specific measures or corrections that need to be made and specify deadlines for completion.
- 14.4.2 Stop Work Orders will be issued when:
  - A. The project has failed to meet the prescribed deadlines in a Notice to Comply;
  - B. Land disturbing activities commenced without an approved plan; or
  - C. Violations are causing or are in imminent danger of causing harmful erosion.
- 14.4.3 If a violation continues to be repeated, then a formal Notice of Non-Compliance will be issued and VDEQ will be notified.
  - A. At the discretion of the Environmental/Sustainability Department, the construction activity may be suspended and/or revoked; at which time land disturbing activity must cease until the violation(s) of the plan has ceased, corrective action has been completed, and any related environmental or property damage abated.
  - B. The Contractor (the officer of the company and senior project officers) shall schedule and meet with the Environmental/Sustainability Department to discuss the violations.

C. The Stop Work Order will be lifted once the required ESC and/or SWM measures or corrections are in place and verified by the ESC and/or SWM inspector.

14.4.4 The Airports Authority reserves the right to contract with a third party to install and maintain the ESC and/or SWM measures in accordance with the approved plan, complete any necessary corrective actions, and abate any related damages.

A. Associated costs will be back charged to the Contractor.

## **15. Permitting Requirements**

### **15.1 VAR10 Permitting Requirements**

15.1.1 Operators of construction activities resulting in land disturbance equal to or greater than one acre; or less than one acre and are part of a larger common plan of development or sale that ultimately disturbs one or more acres must apply for Construction General Permit (CGP) coverage.

15.1.2 If a project requires a VDEQ VAR10 CGP, a SWPPP must be developed by the operator and accepted by the Airports Authority's S&S Reviewers prior to submitting a permit application to VDEQ.

A. The SWPPP shall contain the information as specified in Section 8 of this document and accordance with [9VAC25-880-70](#), Part II.A.

B. The contractor shall include applicable certifications for the "Qualified Personnel" who will be performing the SWPPP Inspections under the VAR10 CGP requirements.

1) In accordance with [9VAC25-880-1](#), "Qualified Personnel" shall hold an unexpired Dual Inspector certification issued by the department; an unexpired Inspector for Erosion and Sediment Control certification and an unexpired Inspector for Stormwater Management certification, both issued by the department; a Construction General Permit Qualified Personnel Certificate issued by the VDEQ or the Virginia Department of Transportation; or an equivalent certification provided by EPA (currently titled Construction Inspection Training Course).

15.1.3 VDEQ is the VSMP Authority and administers VAR10 CGP coverage for land-disturbing activity. The contractor is responsible for submitting the VAR10 CGP Registration Statement and the Standards and Specifications Entity Information Form (Appendix I), to be provided by the S&S Administrator after SWPPP approval, to [constructiongp@deq.virginia.gov](mailto:constructiongp@deq.virginia.gov).

15.1.4 The contractor shall obtain permit coverage as the permit operator and include a VAR10 CGP coverage letter with the accepted SWPPP.

15.1.5 Notice of Termination (NOT)

- A. The Contractor will provide the Airports Authority a completed and approved Termination of Airports Authority Land Disturbance Form (Appendix I) upon:
  - 1) Approval of the P-BMP record drawing submittal.
  - 2) Verification that the area of disturbance has been stabilized to the satisfaction of the Airports Authority.
  - 3) Long-Term Maintenance Agreement (Tenant Projects Only).
- B. Acceptance of the record drawing submission does not release the contractor from any post-construction warranty.
- C. The Operator shall not terminate the VAR10 CGP until receipt of the Airports Authority's approved Termination of Airports Authority Land Disturbance Form. The Operator shall submit a NOT to VDEQ after one or more of the following conditions have been met:
  - 1) Necessary permanent control measures included in the SWPPP for the site are in place and functioning effectively and final stabilization has been achieved on all portions of the site for which the operator is responsible. When applicable, long-term responsibility and maintenance requirements for permanent control measures shall be submitted to Airports Authority prior to the submission of a notice of termination.
  - 2) Another operator has assumed control over all areas of the construction site that has not been finally stabilized and obtained coverage for the ongoing discharge.
  - 3) Coverage under an alternative VPDES permit or other applicable permit has been obtained.

## 15.2 Routine Maintenance Permitting Requirements

15.2.1 Construction projects that are being conducted under the criteria of Routine Maintenance will be exempt from obtaining a VAR10 CGP based on the supporting information below which excludes routine maintenance from the VAR10 CGP requirements:

- A. In accordance with the purpose as defined in [9VAC25-880-10](#), the VAR10 CGP regulation governs stormwater discharges from regulated

construction activities, which includes large construction activity, small construction activity, or construction support activity, through a point source to surface waters or through a municipal or non-municipal separate storm sewer system to surface waters.

- B. “Small Construction Activity” means construction activities including clearing, grading, and excavating that results in land disturbance of equal to or greater than one acre and less than five acres. "Small construction activity" also includes the disturbance of less than one acre of total land area that is part of a larger common plan of development or sale if the larger common plan will ultimately disturb equal to or greater than one and less than five acres. "Small construction activity" does not include routine maintenance that is performed to maintain the original line and grade, hydraulic capacity, or original purpose of the facility.
- C. “Large Construction Activity” means construction activity, including clearing, grading, and excavation, except operations that result in the disturbance of less than five acres of total land area. "Large construction activity" also includes the disturbance of less than five acres of total land area that is a part of a larger common plan of development or sale if the larger common plan will ultimately disturb five acres or more. "Large construction activity" does not include routine maintenance that is performed to maintain the original line and grade, hydraulic capacity, or original purpose of the facility.

## **16. Miscellaneous Items**

- 16.1 As outlined in the VDEQ Cover Memo for Guidance Memorandum No. GM 24-2001 – Virginia Stormwater Management Handbook, Version 1.1, any stormwater management plan submitted and deemed completed ([9VAC25-875-110](#)) by the Airports Authority prior to July 1, 2025, may use the Virginia Runoff Reduction Method (VRRM) 3.0 and existing specifications in the associated manuals, handbooks, and guidance or VRRM 4.1 and associated Virginia Stormwater Management Handbook specifications. After July 1, 2025, when modifications are submitted to approved plans that were developed without using the Virginia Stormwater Management Handbook and VRRM 4.1, if the land-use assumptions upon which the stormwater management facility was designed and implemented change (e.g. increase in impervious cover), then the areas which result in an increase in nutrient loading should comply with the Handbook and VRRM 4.1.

- 16.2 The Office of Engineering has developed a Stormwater Policy that provides direction for non-Authority stormwater management located on Authority property. The policy is provided in Appendix J.

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# APPENDIX A

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Ronald Reagan Washington National Airport Property Map







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# APPENDIX B

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Washington Dulles International Airport Property Map





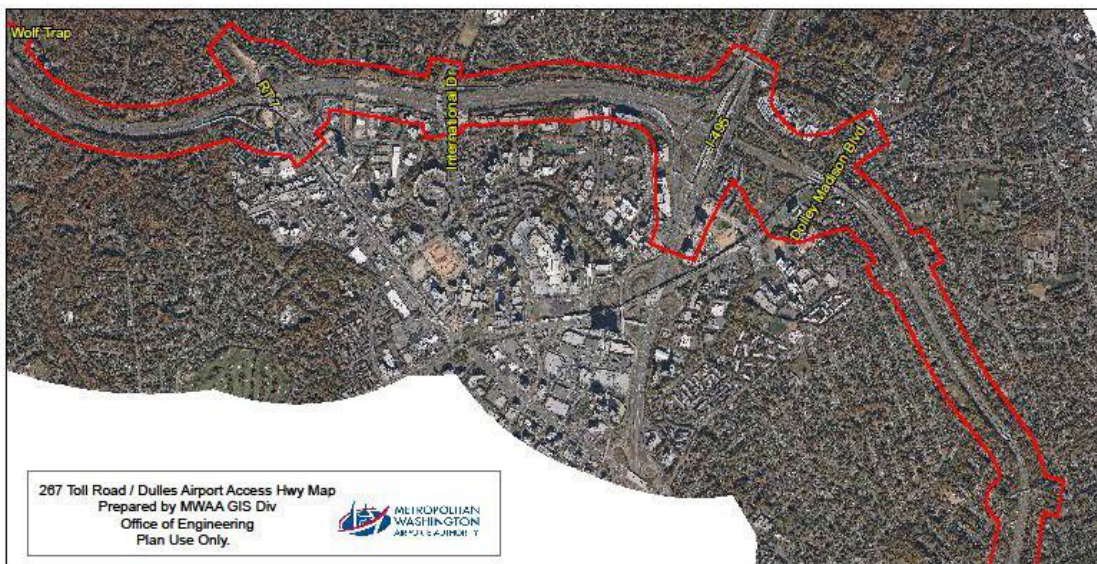
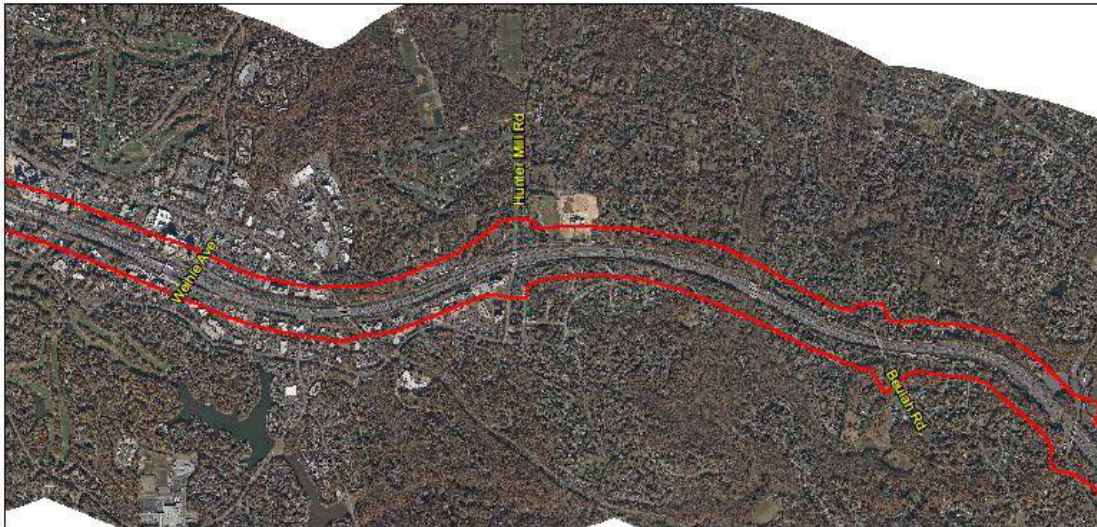
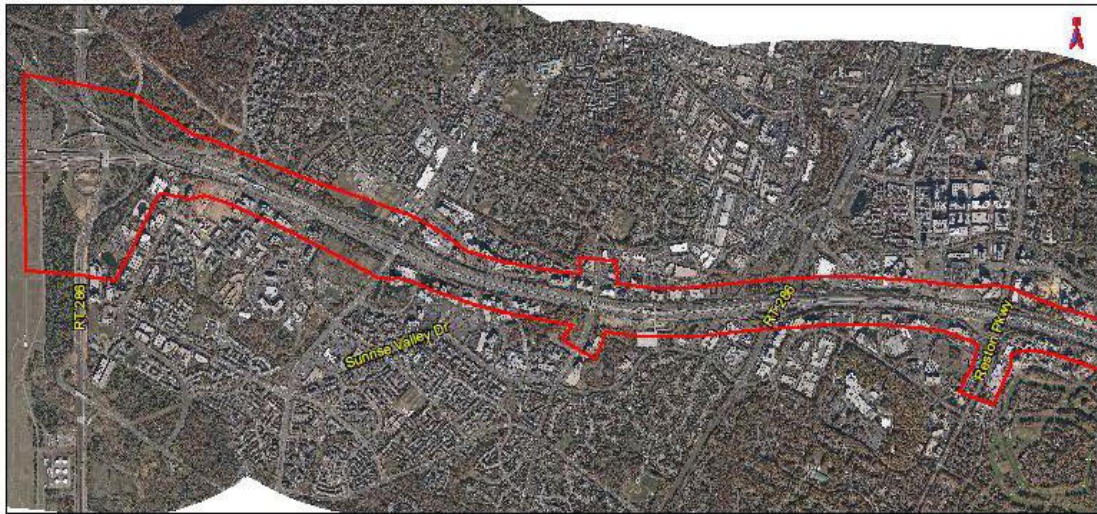


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# APPENDIX C

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Dulles Toll Road Property Map



267 Toll Road / Dulles Airport Access Hwy Map  
 Prepared by MWAA GIS Div  
 Office of Engineering  
 Plan Use Only.



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# APPENDIX D

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Airports Authority ESC Plan Preparer's/  
Plan Reviewer Checklist



**Instructions:** The checklist shall be completed if an ESC Plan and Narrative is required per the Airports Authority's Standards and Specifications. The completed checklist shall be provided with the ESC Plan submittal. The Plan and narrative submitted for review shall be signed and sealed by a licensed professional. This checklist is intended to only be used as a guide. The licensed professional is responsible for ensuring plans address the ESC laws and regulations.

**Project Information:**

Project Name: _____	Project Location: _____
Submittal Date: _____	Date on Plans: _____
Design Engineer of Record (printed): _____	Email: _____
Design Engineer of Record stamp/seal:	

Yes	No	N/A	ESC Narrative Requirement
			Completed ESC Checklist provided in ESC Narrative.
			Project description including the nature and purpose of the land-disturbing activity.
			Description of the existing site conditions, including topography, ground cover, and drainage (include information for on-site and receiving channels).
			Description of adjacent areas such as residential developments, agricultural areas, streams, lakes, roads, etc., that might be affected by the land disturbance.
			Description of off-site land disturbing activities that may occur (borrow sites, disposal areas, easements, etc.). Identify the Owner of the off-site area and the locality responsible for plan review. Include a statement that any off-site land-disturbing activity associated with the project must have an approved ESC Plan. Submit documentation of the approved ESC Plan for each of these sites.
			Description of the site soils conditions, including hydrologic soils group, mapping unit, erodibility, permeability, surface runoff, and a brief description of depth, texture and soil structure. Mapping of soil variations should be provided in the narrative or on the plans.
			Description of critical areas that have potentially serious erosion problems or that are sensitive to sediment impacts (e.g., steep slopes, channels, etc.).
			Description of the structural and vegetative ESC measures that will be used to control erosion and sedimentation on the site. Controls should be consistent with the standards and specifications in Chapter 7 of the Virginia Stormwater Management Handbook (VSMH), latest edition. Variations and proprietary measures require a variance by VDEQ. Approval from DEQ of variances shall be maintained in the narrative.
			Detailed sequence of construction, that includes the phasing of installation of ESC measures.
			Description of permanent stabilization for the entirety of the site, including specifications, of how the site will be stabilized after construction is completed (permanent stabilization).
			Schedule of maintenance requirements for ESC measures including inspections frequency, maintenance concerns, and methods for repair or prevention of need for repair (i.e. removal of sediment build-up).
			Description of stormwater runoff considerations that includes describing any increase in peak runoff rates and the effects on downstream erosion and flooding. The description shall include the strategy to control stormwater runoff.
			Calculations for temporary sediment basins, diversions, channels, stormwater facilities to address MS- 19, etc. Where applicable. including pre- and post-development runoff calculations, drainage area maps, time of concentration paths and computations, rainfall source and documentation, weighted runoff coefficients and computations, runoff and routed hydrographs or peak computations (as applicable), adequate onsite channel (MS-19) & culvert computations, etc.
			Vicinity map locating the site in relation to the surrounding area. Include any landmarks and road information that might assist in locating the site.
			Location on the ESC Plan cover sheet for identification of the Responsible Land Disturber (RLD).
			Existing conditions including: existing contours, surface waters and other surface features, existing tree lines, grassed areas, or unique vegetation.

Yes	No	N/A	ESC Narrative Requirement
			Where applicable, a demolition plan with identification of features to be demolished and measures to address ESC for the demolition.
			Proposed conditions, including proposed contours and features.
			Delineation of the limits of disturbance.
			A description of any variance approved by DEQ described on the cover sheet of the ESC Plans.
			North arrow provided on all plan sheets.
			Legend with a complete listing of all ESC measures used, including the VSWHB uniform code symbol and the standard and specification number. Include any other items necessary to identify pertinent features in the plan.
			Identification of any off-site land disturbing activities (e.g., borrow sites, disposal areas, etc.) and appropriate ESC controls.
			Identification of critical areas and appropriate protections.
			Identification of property and easement lines. For each adjacent property, list the deed book and page number and the property owner's name and address.
			Finished floor elevation of all buildings on site, including basements.
			The locations of erosion and sediment control and stormwater management practices used on the site. Use the standard symbols and abbreviations in Chapter 7 of the VSWHB.
			Existing drainage patterns including dividing lines and directions of flows with the total area for each drainage area.
			A schedule of regular inspections, maintenance, and repair of temporary erosion and sediment control structures and permanent stormwater management facilities.
			Storm sewer profiles of all storm drains except roof drains.
			Site-specific details for all ESC measures. Where applicable, details shall include site-specific dimensions. Proprietary measures with an approved variance shall include site-specific details with dimensions and other information for construction per manufacturer's specifications.
			Specifications for stormwater and stormwater management structures (i.e. pipe materials, pipe bedding, stormwater structures etc.).
			Minimum Standard (MS) 1 through 19 provided on the plan with a description for each that describes how the minimum standard is addressed with the plan.
			Permanent or temporary soil stabilization shown where required on plans using standard symbols and abbreviations in Chapter 7 of the VSWHB. (MS-1, MS-3, and MS-5)
			Stabilization and/or protection measures for soil stock piles and borrow areas. (MS-2)
			Detailed <b>sequence of construction</b> , that includes the phasing of installation of ESC measures with sediment trapping measures as a first step prior to upslope land disturbance. (MS-4)
			Drainage areas to sediment traps and sediment basins shown on plans. (MS-6)
			Stabilization measures provided for slopes steeper than 3:1. (MS-7)
			Measures to prevent concentrated flow from flowing down cut or fill slopes (i.e. slope drains). (MS-8)
			Measures to address water seeping from a slope face been addressed. (MS-9)
			Inlet protection provided for all operational storm drain and culvert inlets. (MS-10)
			Outlet protection and/or channel linings provided for all stormwater conveyance channels and receiving channels prior to being made operational (see sequence of construction). (MS-11)
			Measures to minimize encroachment and minimize sediment transport for work in a live watercourse. (MS-12)
			Temporary stream crossings of non-erodible material where a live watercourse must be crossed by construction vehicles more than twice in any six-month period. (MS-13)
			Applicable federal, state and local regulations pertaining to working in or crossing live watercourses are addressed and summarized on the plan. (MS-14)
			Stabilization measures for bed and banks of live watercourse subject to disturbance. (MS-15)
			Measures shown on plan (i.e. Construction entrance) to minimize sediment transport onto public and otherwise paved roads. (MS-17)
			MS-19 satisfied for each receiving channel per 9VAC25-875-560(19)
			Increased volumes of sheet flows that may cause erosion or sedimentation on adjacent property are diverted to a stable outlet, adequate channel, pipe or pipe system, or to a detention facility.
			If the project impacts any wetlands or surface waters, is all correspondence and permits concerning any proposed impacts to jurisdictional wetlands, stream and channels included (i.e. COE 404 permit). Note that the plan cannot be approved without proper documentation or necessary permits for jurisdictional impacts.

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# APPENDIX E

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Airports Authority SWM Plan Preparer's/  
Plan Reviewer Checklist



**Instructions:** This checklist shall be completed if a SWM Plan and Narrative is required per the Airports Authority's Standards and Specifications. The completed checklist shall be provided with the SWM Plan submittal. The Plan and Narrative submitted for review shall be signed and sealed by a licensed professional. This checklist is intended to only be used as a guide. The licensed professional is responsible for ensuring plans address the SWM laws and regulations.

**Project Information:**

Project Name: _____	Project Location: _____
Submittal Date: _____	Date on Plans: _____
Design Engineer (printed): _____	Email: _____
Design Engineer of Record stamp/seal:	

**General Plan Information (Plan)**

Yes	No	N/A	SWM Plan/Narrative Requirement
			North arrow.
			Legend.
			Location and vicinity map.
			Delineation of the site area and property lines in the vicinity of the project.
			Existing and proposed contours (2' interval minimum).
			Locations of test borings.
			Earthwork specifications.
			Compaction requirements specified.
			Sequence of construction.
			Limits of clearing and grading.
			Existing and proposed features including: buildings, roads, parking areas, utilities, stormwater management facilities and any other physical attributes.
			SWM Facility Certification - Plans shall list all SWM facilities and critical construction inspection timeframes (i.e., liner, underdrain and outlet pipe installation) for which P-BMP certification is required per the Airports Authority Standards and Specifications.
			The following note is on the plan: "A certified construction record drawing for permanent SWM facilities shall be submitted to MWAA for approval. Construction inspections and surveys, performed by a licensed professional, shall be required at each stage of installation (construction) as necessary to certify that the SWM facility has been built in accordance with the approved plan and design specifications. The Contractor shall provide a minimum of 2 business days' notice to the certifying professional to allow for critical inspections."
			P-BMP Inspection and maintenance plan for each permanent SWM facilities. For manufactured P-BMPs, the construction drawings shall include manufacturer's recommendation on maintenance and inspection.
			Specifications for construction/installation of proprietary BMPs per the manufacturer's specifications
			Cross sections for stormwater conveyance channels with maximum water surface elevations for design storms. (1-, 10-, and 100-year)
			Where applicable, outlet protection with dimensions at points of concentrated discharge.

### Site Information (Narrative)

Yes	No	N/A	SWM Plan/Narrative Requirement
			Description of existing and proposed site conditions.
			Summary table with pre- and post-development land cover conditions (i.e. forest, managed turf, and impervious areas).
			Discussion of the stormwater management strategy to address water quantity and quality criteria.
			Information on the type and location of stormwater discharges, including information on the features to which stormwater is being discharged including surface waters or karst features if present.
			If the project impacts any wetlands or surface waters, is all correspondence and permits concerning any proposed impacts to jurisdictional wetlands, stream and channels included (i.e. COE 404 permit). Note: The plan cannot be approved without proper documentation or necessary permits for jurisdictional impacts.
			A general description of the proposed stormwater management facilities and the mechanism through which the facilities will be operated and maintained after construction is complete.
			Information on the proposed stormwater management facilities, including (i) the type of facilities; (ii) location, (iii) impervious and pervious acres treated; and (iv) the surface waters or karst features into which the facility will discharge.
			Discussion of possible stormwater impacts on downstream properties including mapping with sufficient information on adjoining parcels to assess the impacts.
			Geotechnical report when applicable (include infiltration rates when required for a P-BMP).
			Boring locations: borrow area, basin pool area and embankment area (centerline principal spillway, emergency spillway, abutments).
			Additional geophysical investigation and recommendations in Karst environment.
			Description of inclusion of the locality's additional technical requirements into the plan, if any, and how they were addressed to the maximum extent practicable.

### Hydrologic Computations (Narrative)

Yes	No	N/A	SWM Plan/Narrative Requirement
			Mapping that supports computations and includes, at a minimum the following: <ul style="list-style-type: none"> <li>• Pre- and post-development development contours;</li> <li>• Existing streams, ponds, culverts, ditches, wetlands, other water bodies, and floodplains;</li> <li>• Current land use including existing structures, roads, and locations of known utilities and easements;</li> <li>• Limits of clearing and grading;</li> <li>• Proposed drainage patterns on the site;</li> </ul> Proposed buildings, roads, parking areas, utilities, and stormwater management facilities.
			Pre-development drainage area mapping that includes all contributing drainage areas, CN labels, depiction of time of concentration flow paths, slopes and lengths used for runoff hydrographs.
			Post-development drainage area mapping that includes all contributing drainage areas, CN labels, depiction of time of concentration flow paths, slopes and lengths used for runoff hydrographs.
			Rainfall precipitation frequency data recommended by the U.S. National Oceanic and Atmospheric Administration (NOAA) Atlas 14. Partial duration time series shall be used for the precipitation data. Summary table for determination of runoff curve numbers.
			Time of concentration calculations.
			Predevelopment runoff hydrographs.
			Post-development runoff hydrographs.

### Hydrologic Computations (Narrative & Plans, as indicated)

Yes	No	N/A	SWM Plan/Narrative Requirement
			Routing computations for each proposed stormwater management facility for each applicable design storm provided in narrative.
			Stage-storage data used in routing computations in the narrative.
			Control structure information used in routing computations in the narrative.

Yes	No	N/A	SWM Plan/Narrative Requirement
			Summary table of pre- and post-development peak runoff rates for each point of discharge from the site provided in narrative.
			Maximum water surface elevations for design storms shown in sections or profiles on the plans for each stormwater management facility.
			Impoundments designed to convey the 100-year storm as demonstrated in computations in the narrative.
			Adequate freeboard is provided for impoundments as shown on the plans based on computations in the narrative.
			Hydraulic grade line computations in the narrative with indication of locations of surcharge or inadequacy.
			Storm sewer design computations in the narrative.
			Culvert calculations in the narrative.
			Gutter spread calculations in the narrative.
			Provide profiles of all storm conveyances (except roof drains) on plans. Profiles should include existing and proposed grade, structure types, pipe materials and sizes, slopes, inverts, etc.

***Water Quality Computations (Narrative & Plans, as indicated)***

Yes	No	N/A	SWM Plan/Narrative Requirement
			Per 9VAC25-875-580 and -590, provide Virginia Runoff Reduction Method spreadsheet output including: <ul style="list-style-type: none"> <li>• Site loadings to include the drainage area and land cover conditions draining to each BMP.</li> <li>• Required reductions</li> <li>• Input for each BMP employed and reductions achieved by each BMP</li> <li>• Compliance worksheet</li> </ul>
			Treatment volume calculations for sizing P-BMPs.
			Stage-storage information indicating the treatment volume required and volume provided.
			All proposed SWM design follows the Virginia Stormwater Management Handbook (VSWHB) design specifications.
			A BMP-type specific calculations and details that meet requirements of Chapter 8 of the Virginia Stormwater Management Handbook, latest edition, is completed and provided in the narrative for each proposed BMP.

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# APPENDIX F

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Airports Authority Approved Construction BMPs  
(Non-VSWHB)

## **List of Approved Non-VSWHB**

1. **Erosion Eel/Gutter Buddy** (or Approved equal)
2. **Dandy Curb Sack/Dandy Sack/Dandy Pop** (or Approved equal)
3. **New Pig Sediment Drain Filter/ Frameless Storm Drain Filter-Curb Inlet** (or Approved equal)
4. **FODS Trackout Control Mats** (or Approved equal)

Although the MWAA does not endorse any particular product, any substitution from the devices listed above must function equally or better in performance, provide the product data for installation and maintenance, be approved by MWAA, and included with the approved SWPPP.

The use of Non-VSWHB specifications will require that the manufacturer's planning, construction, and maintenance requirements be included with the approved plan. Should Non- VSWHB control measures fail to effectively control soil erosion and sediment disposition, then VSWHB control measures shall be utilized.

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# APPENDIX G

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Airports Authority Construction Site Inspection Report for Regulated  
Land Disturbance

General Information			
Project Name:		MWAA Contact:	
VAR10 Permit # (where applicable)		Location:	
Date of Inspection:		Start/End Time:	
Contact Information/Responsible Parties			
* Site Representative (see below)		Representative's email and phone number:	
Inspector's Name(s):		Inspector's email and phone number:	
Inspectors DEQ Certification #(s):		Other contact information (as	
* PM, Contractor, RLD or other individual with responsibility for implementation of the ESC Plan and the SWPPP, where applicable.			
Inspection Type (check all that apply)			
<input type="checkbox"/> After installation of initial ESC measures		<input type="checkbox"/> Periodic SWM Inspection	
<input type="checkbox"/> Within 48-hours after a runoff event ( $\geq 0.25$ inches of rain over 24-hours)		<input type="checkbox"/> Final Stabilization	
<input type="checkbox"/> Contractor's self-inspection as required in SWPPP (where applicable)		<input type="checkbox"/> 2-week inspection	
<input type="checkbox"/> Other:			
*If within 48-hours of runoff event, date of event:		Rainfall amount (inches):	
Weather Conditions (check all that apply)			
Clear <input type="checkbox"/>	Sunny <input type="checkbox"/>	Partly Cloudy <input type="checkbox"/>	Cloudy <input type="checkbox"/>
Cold <input type="checkbox"/>	Cool <input type="checkbox"/>	Mild <input type="checkbox"/>	Hot <input type="checkbox"/>
Raining <input type="checkbox"/>	Post Rain Event <input type="checkbox"/>		
Are discharges occurring from the site at the time of inspection or evidence of off-site sediment transport? If yes, describe. <input type="checkbox"/> Yes <input type="checkbox"/> No			

Construction Inspection Checklist (For projects that do not require a Construction General Permit, VAR10, ONLY Section1 of this form applies. Projects that require a VAR10 Permit, all Sections apply)		Yes	No	N/A	Location of Concern and Recommended Corrective Action/Notes (additional notes at end of form)
Section 1 – ESC Plan Inspection					
See MWAA approved ESC and SWM Plan where applicable					
1a.	Are deficiencies identified during previous inspections corrected? Notify MWAA PM if a specific deficiency has been identified and not corrected on each of the past 3 reports.				
1b.	Are all land-disturbing activities within the area of disturbance identified on the approved ESC Plan?				
1c.	Are all erosion and sediment controls maintained, properly repaired and functional? [9VAC25-875-320 & 330]				
1d.	Are site ESC operations consistent with the ESC phasing plan or have modifications to the plan been appropriately approved and documented?				
1e.	Are temporary or permanent stabilization measures applied within allowable time frames (7 days after final grade or where dormant for more than 14 days)? [9VAC25-840-560]				
1f.	Are disposal/borrow areas and stockpiles (on-site and off-site) stabilized or protected with sediment trapping measures?				
1g.	Are off-site areas on plan or have separate MWAA or locality approved ESC Plan?				

<b>Construction Inspection Checklist</b> (For projects that do not require a Construction General Permit, VAR10, ONLY Section1 of this form applies. Projects that require a VAR10 Permit, all Sections apply)		<i>Yes</i>	<i>No</i>	<i>N/A</i>	<i>Location of Concern and Recommended Corrective Action/Notes</i> (additional notes at end of form)
1h.	Are all temporary ESC measures that are no longer needed removed and applicable site areas permanently stabilized?				
1i.	Are initial ESC measures, including perimeter controls, (i.e. silt fence, sediment basins and traps, perimeter dikes) intended to trap sediment installed and functional prior to upslope land disturbance?				
1j.	Are earthen structures, such as dams, dikes, diversions, and cut/fill slopes, stabilized or protected with functioning sediment trapping measures?				
1k.	Are sediment basins/traps constructed according to the plans/specifications, functional and maintained?				
1l.	Are cut/fill slopes protected from concentrated runoff with channel flumes or slope drains?				
1m.	Are slopes with water seeps protected with adequate drainage and stabilization?				
1n.	Do operational storm sewer and culvert inlets have inlet protection according to the plans/specifications?				
1o.	Are constructed stormwater conveyance channels and ditches stabilized with the appropriate channel lining and/or outlet protection according to the plans/specifications?				
1p.	Is non-erodible material or cover provided for all causeways and cofferdams where work is performed in a live watercourse?				
1q.	Is a live watercourse crossed by construction vehicles more than twice in a 6-month period, and if so, is the temporary stream crossing used for crossing constructed of non-erodible materials?				
1r.	Where work is performed in a live watercourse, are applicable federal and state permits available?				
1s.	Are underground utilities installed with less than 500' of trench open, sediment trapping controls for excavated material, filtering of effluent from dewatering, and compaction and re-stabilization of backfill?				
1t.	Are construction entrances properly located, installed and maintained?				
1u.	Does sediment tracked onto adjacent roadways appear to be removed each day?				
1v.	If the site is stabilized, have ESC measures been removed and trapped sediment been stabilized or appropriately removed?				
1w.	Is there evidence of downstream or other off-site sediment transport? (Provide locations and description of impacts if applicable.)				
1x.	Are adjacent properties and waterways adequately protected from accidental land disturbance, potential pollutant discharge, erosion, flooding, and sedimentation from the project site?				
1z.	Do all locations concentrated of concentrated runoff leaving the site discharge to a channel (i.e. stream, storm sewer, or ditch)?				



<b>Construction Inspection Checklist</b> (For projects that do not require a Construction General Permit, VAR10, ONLY Section1 of this form applies. Projects that require a VAR10 Permit, all Sections apply)		Yes	No	N/A	Location of Concern and Recommended Corrective Action/Notes (additional notes at end of form)
1aa.	Are any ESC measures to protect P-BMP practices (i.e. infiltration basin, bioretention) that are shown on the plans to prevent compaction or clogging installed?				
1bb.	Is runoff and other discharges (dewatering) that contain sediment or other pollutants being properly treated prior to discharging from the site?				
1cc.	Are permanent stormwater measures (basins, etc.) properly installed/converted, stabilized and functional?				
1dd.	Are LDA being conducted in accordance with the approved stormwater management plan?				
1ee.	Are there any additional control measures required to address a TMDL?				
1ff.	If applicable, are additional control measures for TMDL's implemented and maintained?				
<b>Section 2 – Pollution Prevention (PP) Plan Inspection</b> (Applicable to projects that have a VAR10 Permit or PP Plan as required by the Airports Authority) See project-specific PP Plan					
2a.	Are functional measures in place to prevent and respond to leaks, spills and other pollutant releases including procedures for expeditiously stopping, containing, cleaning up spills and reporting?				
2b.	Are functional measures in place to prevent the release of soaps, solvents, detergents, wash water from construction materials, paint clean-up and other pollutants and/or also from contact with stormwater?				
2c.	Are wash waters from vehicles, equipment, construction materials and the like prevented from release and/or properly treated before leaving the site?				
2d.	Is the concrete wash-out waste directed into a properly installed leak-proof container? Is the treatment mechanism properly maintained and utilized?				
2e.	Are construction products, materials, and wastes being properly stored, handled, labeled? Are loose trash and debris properly contained?				
2f.	Are other potential pollutant-generating activities not listed above being properly managed to prevent exposure to precipitation/runoff?				
2g.	Have all pollutant generating activities present on the site been identified in the Pollution Prevention Plan?				
<b>Section 3 – SWPPP Documentation Inspection</b> (Applicable to projects that have a VAR10 Permit) See project-specific SWPPP					
3a.	Copy of notice of coverage letter and information for public access to the SWPPP posted near main entrance of the site?				
3b.	Copy of complete SWPPP available onsite for operators and inspectors?				
3c.	SWPPP is being amended, modified, updated and appropriately signed?				

<b>Construction Inspection Checklist</b> (For projects that do not require a Construction General Permit, VAR10, ONLY Section1 of this form applies. Projects that require a VAR10 Permit, all Sections apply)		<i>Yes</i>	<i>No</i>	<i>N/A</i>	<i>Location of Concern and Recommended Corrective Action/Notes</i> (additional notes at end of form)
3d.	Are dates when major grading activities occurred properly recorded?				
3e.	Are SWPPP inspections conducted by contractor at required frequency, summarized including corrective actions, appropriately signed and retained with the SWPPP?				

## CERTIFICATION INSTRUCTIONS

This Inspection Form is not complete without the completion of the appropriate certification(s) by the individual(s) listed below.

***Reports conducted by MWAA or MWAA representative (3<sup>rd</sup> party inspector) will be provided to the Operator or Duly Authorized Representative by (check all that apply) within 48 hours of inspection:***

☐ Hardcopy                      ☐ Email                      ☐ Other: \_\_\_\_\_

- **CERT-1 and CERT-2** certification is required with MWAA inspections.
- **CERT-2** certification is required by the VAR10 operator for all inspections, including self-inspections required by the VAR10.

### CERT-1: INSPECTION CERTIFICATION STATEMENT

"I certify under penalty of law that I performed the inspection described in this form as a Certified Project Inspector for ESC and SWM per the Virginia Erosion and Sediment Control and Stormwater Management Certification Regulations (9VAC25-875). I certify that the inspection described in the form reflects site conditions to the best of my knowledge and belief and is true, accurate and complete. On inspection forms where no corrective action is identified, the construction activity is in compliance with the project SWPPP. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations and falsifying inspections (reports)."

***Inspector's Name:*** \_\_\_\_\_

***Signature:*** \_\_\_\_\_ ***Date:*** \_\_\_\_\_

### CERT-2: OPERATOR (OR DULY AUTHORIZED REPRESENTATIVE) CERTIFICATION STATEMENT

"I certify that I am duly authorized and qualified to sign this inspection report. Furthermore, I agree with the findings of this inspection and agree to address all deficiencies noted within 7 working days. However, any major violations or prohibited discharges will be immediately corrected as requested by the COTR. I am aware that there are significant penalties for failing to address the noted deficiencies and for failing to comply with all of the conditions of the stormwater permit(s)."

***Operator (or Duly Authorized Representative) Name:*** \_\_\_\_\_

***Signature:*** \_\_\_\_\_ ***Date:*** \_\_\_\_\_

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# APPENDIX H

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Airports Authority P-BMP Facility Record Drawing and  
Certification Form

## **P-BMP Facility Record Drawing and Certification Form**

**Instruction:** The purpose of the record drawing and P-BMP facility certification process is to verify that all stormwater management facilities and associated conveyance systems have been built in accordance with the approved plan and design specifications. All required information shall be submitted to the MWAA for approval. MWAA approval is required prior to receiving a MWAA Termination of Land Disturbance that is necessary prior to the permittee's termination of a VAR10 General Permit. The following shall be submitted for each permanent post- construction stormwater management facility:

### **1. A completed copy of this form**

A copy of this form shall be submitted with each P-BMP that is recommended for acceptance. The applicant shall ensure that this form is completed in its entirety and all applicable documentation is included with the submittal.

### **2. Certified Professional Inspection Log**

A copy of the applicant's inspection log shall be submitted with this form. This log should document all critical aspects of SWM facility construction to demonstrate compliance with the approved plans. For example, a bioretention facility may require a liner. Without an inspection log, there would be no assurance that it was installed post-construction since it is underground and not visible from the surface.

### **3. Certified Record Drawing (As-Built)**

- A record drawing of the plans is required to be submitted with this form. The plans should indicate any changes that differ from the approved plans, along with any applicable computations.
- A clear means, such as a checkmark, shall be used to demonstrate that the applicant agrees with the constructed values.
- For any changes to the plans, including numeric changes, a red line shall be used to cross out the original item and the actual revision shall be entered beside the crossed out value.
- Elevations shall be to the nearest 0.1 foot.
- The storage volume of the facility, including all dimensioned structures, shall be verified with the certification.
- All submitted plan sheets shall be labeled as "Record Drawing."

**Section 1 – P-BMP General Information**

Project Name:		Project Location:	
BMP Location:	Latitude:	Longitude:	
BMP Type:		Total Drainage Area to BMP (acres):	
6 <sup>th</sup> Order HUC:		Date Facility Brought Online:	
Name of any impaired waters the BMP discharges to:			

**Section 2 – Contractor Information**

Company:	Contact Person:
Title:	Phone Number:
Plan Name:	Plan Date:

**Section 3 – Record Drawing Certification Statement**

“I certify that I am a Licensed Professional in the Commonwealth of Virginia and that to best of my knowledge, having completed site specific inspection(s), the stormwater facility referenced on this form is constructed in accordance with the approved plans and all of the information provided with this certification is complete and accurate.”

Design Firm Name		Place Seal Here:
Mailing Address:		
Business Phone:		
Name of certifying individual:		

Signature: \_\_\_\_\_ Date: \_\_\_\_\_

**Section 4 – Final Certification**

“I do hereby certify that this as-built information for the P-BMP was inspected by me (or by an individual under my responsible charge) and conforms to the approved plans, except as indicated.

Name: \_\_\_\_\_ Title: \_\_\_\_\_

Signature: \_\_\_\_\_ Date: \_\_\_\_\_

License Number (Seal): \_\_\_\_\_

**Section 5 – Airports Authority Approval** *(This section to be completed by MWAA only)*

MWAA S&S Administrator (print): \_\_\_\_\_

Signature: \_\_\_\_\_ Date: \_\_\_\_\_

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# APPENDIX I

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Standards & Specifications Entity Form/  
Airports Authority Notice of Termination

**VIRGINIA DEPARTMENT OF ENVIRONMENTAL QUALITY  
STANDARDS & SPECIFICATION (S&S) ENTITY INFORMATION SHEET**

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<b>1. Standards &amp; Specifications Entity:</b>	
<b>2. S&amp;S Coverage Verification</b>	
a. Operator:	
b. Project name:	
c. Estimated Area to be Disturbed (acres):	
<b>3. Plan Approval Verification</b>	
a. Erosion & Sediment Control (ESC) Plan	
i. ESC Plan Reviewer Name and Certification Number:	
ii. ESC Plan Date:	
iii. ESC Plan Approval Date:	
b. Stormwater Management (SWM) Plan	
i. Technical Criteria Used:	
ii. SWM Plan Reviewer Name and Certification Number:	
iii. SWM Plan Date:	
iv. SWM Plan Approval Date:	
<b>4. Comments:</b>	

<b>Printed Name:</b>	<b>Title:</b>
<b>Signature:</b>	<b>Date:</b>

(Please sign in ink. This must be signed by an employee of the S&S entity who has oversight of this project and is aware of its coverage under their S&S.)

(Retain a copy of this form onsite and within project specific S&S files.)

**VIRGINIA DEPARTMENT OF ENVIRONMENTAL QUALITY  
STANDARDS & SPECIFICATION (S&S) ENTITY INFORMATION SHEET  
INSTRUCTIONS FOR COMPLETION (*DO NOT PRINT OR SUBMIT*)**

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- 1. S&S Entity/Holder Name:** Name as it appears on the S&S Approval Letter.
- 2.a. Operator:** Owner, operator, developer, person, or general contractor that the S&S holder is allowing to operate under their DEQ approved S&S.
- 2.b. Project Name:** Name of the construction activity as it appears on the registration statement.
- 2.c. Estimated Area to Be Disturbed:** Provide the estimated area (to the nearest one-hundredth acre) to be disturbed by the construction activity. Include the estimated area of land disturbance that will occur at any off-site support activity to be covered under this general permit.
- 3.a.i. ESC Plan Reviewer Name and Certification Number:** S&S ESC Plans are required to be reviewed and approved by a DEQ-Certified ESC Plan Reviewer. Provide the name and certification number of the qualified individual.
- 3.a.ii. ESC Plan Date:** Provide the plan date of the approved ESC Plan.
- 3.a.iii. ESC Plan Approval Date:** Provide the date the ESC Plan was approved by the review authority.
- 3.b.i. Technical Criteria Used:** The technical criteria used for this project, which should be either Part V of Article 3 or Part V of Article 4 (previously Part IIB or Part IIC, respectively) per the Virginia Erosion and Stormwater Management Regulation, 9VAC25-875.
- 3.b.ii. SWM Plan Reviewer Name and Certification Number:** S&S SWM Plans are required to be reviewed and approved by a DEQ-Certified SWM Plan Reviewer. Provide the name and certification number of the qualified individual.
- 3.b.iii. SWM Plan Date:** Provide the plan date of the approved SWM Plan.
- 3.b.iv. SWM Plan Approval Date:** Provide the date the SWM Plan was approved by the review authority.

(Further questions can be directed to [StandardsandSpecs@deq.virginia.gov](mailto:StandardsandSpecs@deq.virginia.gov))



## Termination of Airports Authority Land Disturbance

**Instruction:** This form is to be used as a request of termination of land disturbance between the Contractor/Operator and Airports Authority. This form will NOT result in termination of VAR10 General Permit coverage from VDEQ. However, the Contractor/Operator SHALL NOT terminate VAR10 General Permit coverage with VDEQ, when applicable, until Termination of Land Disturbance Approval from Airports Authority is provided on this form.

**Project Name:** \_\_\_\_\_ **VAR10 Permit # (if applicable):** \_\_\_\_\_

### Section 1– Conditions for Termination of Land Disturbance

The conditions of this section shall be met, and this form shall be signed by both the Operator and the Airports Authority Project Manager prior to termination of land disturbance (check those that apply):

- ☐ No further land disturbance activities are planned.
- ☐ The project area has been stabilized in accordance with the approved plans, which includes seeding, mulching, sodding, paving, or other means.
- ☐ All temporary erosion and sediment control measures have been removed.
- ☐ All pollution prevention measures have been removed from the site and disposed of in a legal manner.
- ☐ All permanent post-construction stormwater management facilities have MWAA approved record drawings.
- ☐ All trash and debris have been removed from the site.

### Section 2 – Operator Certification

“I certify under penalty of law that I have read and understand this 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. Upon approval of this form, I will request termination of the VAR10 Construction General Permit from VDEQ, if applicable.”

Operator/Contractor: \_\_\_\_\_ Company: \_\_\_\_\_

Signature: \_\_\_\_\_ Date: \_\_\_\_\_

### Section 3 – Termination of Land Disturbance Approval

*(This section to be completed by Airports Authority S&S Administrator)*

The Airports Authority recognizes this request to be accurate based on the certification above and terminates the Operator/Contractor’s land disturbance activity as it applies to the Airports Authority’s Standards and Specifications.

Airports Authority S&S Administrator (Print): \_\_\_\_\_

Signature: \_\_\_\_\_ Date: \_\_\_\_\_

---

# APPENDIX J

---

MWAA Stormwater Policy for Non-Authority Projects

To: MA-70, 90, 100, 200, 400

From: Roger Natsuhara – MA-30

Subject: Stormwater Management Policy (Revision 2)

Date: November 18, 2024

A change in the Virginia Department of Environmental Stormwater Regulations has increased the water quality and quantity requirements for new and re-developed projects. This change has resulted in additional Authority land requests from outside agencies and interest in using existing Authority maintained stormwater facilities to meet the requirements. The Office of Engineering has developed the following Stormwater Policy that provides direction for non-Authority stormwater management.

**Metropolitan Washington Airports Authority**  
**Stormwater Management Policy**  
**(Revised November, 2024)**

The Metropolitan Washington Airports Authority's stormwater policy follows the Virginia Department of Environmental Quality (VDEQ) erosion and stormwater management regulations that include controls to improve the quality of stormwater prior to discharge, reduce the erosive effects of stormwater from new and re-developed sites, increase groundwater recharge, provide channel protection, flood control and promote non-structural stormwater site design.

**General Information**

The Virginia Erosion and Stormwater Management Regulations (9VAC25-875) specifies the minimum technical criteria and administrative procedures for stormwater management programs in Virginia. These regulations also establish minimum technical criteria and administrative procedures that apply to land development projects conducted by state agencies. The VDEQ is the lead agency for developing and implementing statewide stormwater management and pollution control programs.

The Metropolitan Washington Airports Authority (Airports Authority) is a VDEQ approved Standards and Specifications holder that administers the Erosion and Stormwater Management Program for all land disturbing activities at Ronald Reagan Washington National and Dulles International Airports, the Dulles Toll and Access Roads and associated Authority owned property. The Authority has approved Standards and Specifications for the Erosion and Stormwater Management Program that is conducted by its internal workforce or contracted to external entities (where such activities are regulated by the Virginia Erosion and Stormwater Management Act) that must be followed. The implementation of this program resides in the Office of Engineering, Environmental & Sustainability Department.

## **Stormwater Management Policy for Non-Authority and/or Outside Agency projects**

This policy is intended for any individual, firm, corporation, partnership, association, organization or other entity, including state and governmental entities, or any other combination requesting to use land or existing stormwater management facilities under the direction of the Metropolitan Washington Airports Authority. Stormwater management facilities includes both structural and non-structural stormwater infrastructure established to manage stormwater runoff and drainage.

The stormwater management items includes, but is not limited to, the following new or existing facilities and equipment, storm drains, storm sewers, catch-basins, drop inlets, pipes, open channels and ditches, wet and dry detention facilities, bio-retention facilities, ponds, lakes, constructed wetlands and any other facilities deemed stormwater management.

The use of existing Authority stormwater management features or land for the installation of temporary or permanent stormwater management facilities as described above that are not associated with approved Authority functions or that are located outside the original line and grade limits of the requested easement are prohibited unless specifically approved by the Authority's Vice President for Engineering.

Stormwater management facilities for both quantity and quality shall be incorporated within the project boundaries. The use of the Authority land for the installation of stormwater management facilities will not be approved. Purchasing offsite nutrient credits to satisfy the water quality requirements of 9VAC25-875-580 is prohibited unless approved by the Authority's Vice President for Engineering prior to starting design.

## **Regulations and Reference Materials**

The current editions of the following regulations shall be used in the stormwater design development:

- Commonwealth of Virginia – State Water Control Law
- Commonwealth of Virginia – Erosion and Stormwater Management Regulation
- Commonwealth of Virginia – General VPDES Permit for Discharges of Stormwater from Construction Activities Regulation
- Federal Aviation Administration Advisory Circular 150/5200-33B.

Please refer to this policy in all requests requiring the temporary or permanent use of airport property.



*Commonwealth of Virginia*

*VIRGINIA DEPARTMENT OF ENVIRONMENTAL QUALITY*

[www.deq.virginia.gov](http://www.deq.virginia.gov)

Stefanie K. Taillon  
Acting Secretary of Natural and Historic Resources

Michael S. Rolband, PE, PWD, PWS Emeritus  
Director

March 14, 2025

Mr. Jonathan Matheny  
Manager, Environmental and Sustainability  
Metropolitan Washington Airports Authority  
45045 Aviation Dr.  
Dulles, VA 20166

Re: Metropolitan Washington Airports Authority (MWAA) Standards and Specifications for Erosion & Sediment Control and Stormwater Management (S&S for ESC and SWM)  
S&S Agreement No. SS025

*Transmitted electronically:* [jonathan.matheny@mwaa.com](mailto:jonathan.matheny@mwaa.com)

Dear Mr. Matheny,

The Virginia Department of Environmental Quality (DEQ) has reviewed the Metropolitan Washington Airports Authority Standards and Specifications (S&S) for Erosion and Sediment Control (ESC) and Stormwater Management (SWM), certified on February 21, 2025 and received by the DEQ Office of Stormwater Management on February 21, 2025. The S&S Agreement is deemed approved for ESC and SWM pursuant to the Virginia Erosion and Stormwater Management Act (§ 62.1-44.15:24 et seq.) and associated regulation (9VAC25-875-10 et seq.).

Approval of Standards and Specifications by DEQ does not relieve the owner or operator of the duty to comply with other applicable local, state or federal ordinances or regulations. Additionally, approval of this S&S is set to expire five (5) years from the date of this document on March 14, 2030 unless otherwise specified by DEQ or where there are changes requiring DEQ review and approval.

Please note that the approved S&S for ESC and SWM are subject to the following requirements:

1. Variance, waiver, and exception requests must be submitted to DEQ separately from the February 21, 2025 S&S document. DEQ may require project-specific plans associated with requests to be submitted for review and approval.
2. Electronic notification must be sent to DEQ at least two weeks prior to the initiation of any land-disturbing activities subject to approved S&S. Notifications shall be submitted via email to: [standardsandspecs@deq.virginia.gov](mailto:standardsandspecs@deq.virginia.gov).
  - 1) Project name and any associated Construction General Permit number;
  - 2) Project location (including nearest intersection, latitude and longitude, or access point);
  - 3) On-site project manager name and contact information;
  - 4) Responsible Land Disturber (RLD) name and contact information;

- 5) Project description;
  - 6) Acreage of disturbance for the project;
  - 7) Anticipated project start and finish dates; and
  - 8) Any deviations/variances/exceptions/waivers associated with the project.
3. In addition to the two weeks prior land disturbance notification described above, a semiannual linear project tracking report of all active projects, including acreage, initiated under this S&S agreement shall be submitted via email to [standardsandspecs@deq.virginia.gov](mailto:standardsandspecs@deq.virginia.gov) by January 15<sup>th</sup> and July 15<sup>th</sup> of each year through the duration of this approval, including ongoing, previously reported projects.
  4. ESC and SWM plans must be reviewed by DEQ-Certified Plan Reviewers. MWAA, as the S&S holder, retains the authority to approve plans and must do so in writing. Should MWAA, as an S&S holder, contract with a third-party to fulfill the plan review function, the certified third-party Plan Reviewer may recommend approval of the plan, but final approval must come from MWAA, as the S&S holder.
  5. Any ESC and/or SWM plan submitted and deemed complete (9VAC25-875-110) by MWAA before July 1, 2025, may use the previously approved S&S Program, dated November 17, 2023. After July 1, 2025, when modifications are submitted to approved plans that were developed using the previously approved S&S Program, if the land-use assumptions upon which the existing stormwater management facility was designed and implemented changes (e.g., increase in impervious cover), then the areas which result in an increase in nutrient loading should comply with this approved S&S Program, the Virginia Stormwater Management Handbook and VRRM 4.1.

To ensure compliance with approved S&S for ESC and SWM, and the Virginia Erosion and Stormwater Management Act and attendant regulation, DEQ staff will conduct random site inspections, respond to complaints, and provide on-site technical assistance with specific ESC and SWM measures and plan implementation.

As provided by Rule 2A:2 of the Rules of the Supreme Court of Virginia, you have thirty (30) days from the date of receipt within which to appeal this decision by filing a notice of appeal in accordance with the Rules of the Supreme Court of Virginia with the Director, Virginia Department of Environmental Quality.

To ensure an efficient exchange and response to inquiries, DEQ Central Office is your primary point of contact. Central Office staff will coordinate with our Regional Office staff as appropriate. Please contact Tony Angueira at (804)-584-6265 or [antony.angueira@virginia.deq.gov](mailto:antony.angueira@virginia.deq.gov) if you have any questions about this letter.

Sincerely,



April Rhodes  
Program Manager, Office of Stormwater Management  
Virginia Department of Environmental Quality  
1111 East Main Street, Suite 1400  
Richmond, Virginia 23219  
(804) 698-4000

cc: DEQ-OSWM  
[jenell.lowry@mwaa.com](mailto:jenell.lowry@mwaa.com)