COMMONWEALTH OF VIRGINIA

Department of Environmental Quality

Subject: Guidance Memo No. 22-2011 - Streamlined Plan Review for Construction

Stormwater Plans and Erosion and Sediment Control Plans submitted by a Professional Engineer and reviewed by a Dual Combined Administrator for

Erosion and Sediment Control and Stormwater Management

To: Regional Directors, Central Office, Office of Stormwater Management

From: Melanie D. Davenport, Director, Division of Water Permitting

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Date: July 1, 2022

Copies: James Golden, Jeff Steers, Drew Hammond

Summary:

This guidance document provides for: 1) a streamlined stormwater management (SWM) plan review process in instances where DEQ is the Virginia Stormwater Management Program (VSMP) authority and 2) a streamlined erosion and sediment control (ESC) plan review process where DEQ is the Virginia Erosion and Sediment Control Program (VESCP) authority when the following conditions are met:

- The SWM and/or ESC plan is prepared by a professional engineer licensed to engage in practice in the Commonwealth under Chapter 4 of Title 54.1 of the Code of Virginia;
- The SWM and/or ESC plan is prepared in accordance with DEQ Guidance Memo. 22-2012, Stormwater Management and Erosion & Sediment Control Design Guide;
- The SWM and/or ESC Plan is pre-reviewed and signed by a person who holds an active certificate as a Dual Combined Administrator for ESC and SWM; and
- A completed Plan Submission Checklist is submitted with the SWM and/or ESC Plan on the cover sheet.

Pursuant to 9VAC25-870-108 B.3, when SWM Plans are submitted DEQ will review the Plan Submission Checklist for completeness within 15 days of receipt, and if DEQ determines that the SWM plan meets the Plan Submission Checklist in full, then the SWM¹ Plans will be deemed approved 60 days after the determination of completeness is communicated to the applicant. If DEQ does not notify the applicant of a completeness decision within 15 days of receipt of the plan set containing the Plan Submission Checklist then the plans will be deemed approved 60 days after receipt of the plans. DEQ will also apply this approach to ESC Plans when DEQ is the

¹ ESC Plans are approved by the locality unless DEQ is the VESCP authority. However, because ESC plans often provide SWM control during construction DEQ will require that the professional engineer and the Dual Combined Administrator for ESC and SWM certify both plans for this streamlined approval.

VESCP authority. If DEQ elects to audit the SWM and/or ESC Plan during the 60-day period and observes deficiencies, then those deficiencies must be addressed by the Applicant.

Electronic Copy:

Once effective, an electronic copy of this guidance will be available on:

- The Virginia Regulatory Town Hall under the Department of Environmental Quality (http://www.townhall.virginia.gov/L/gdocs.cfm?agencynumber=440).
- The Department's website at www.deq.virginia.gov.

Contact Information:

Please contact Melanie D. Davenport, Director, Division of Water Permitting, at Melanie. Davenport@deq.virginia.gov or 804-698-4038, with any questions regarding the application of this guidance.

Certification:

As required by Subsection B of § 2.2-4002.1 of the APA, the agency certifies that this guidance document conforms to the definition of a guidance document in § 2.2-4101 of the Code of Virginia.

Disclaimer:

This document is provided as guidance and, as such, sets forth standard operating procedures for the agency. However, it does not mandate or prohibit any particular action not otherwise required or prohibited by law or regulation. If alternative proposals are made, such proposals will be reviewed and accepted or denied based on their technical adequacy and compliance with appropriate laws and regulations.

Effective Date:	Initials:

STREAMLINED PLAN REVIEW FOR CONSTRUCTION STORMWATER PLANS AND EROSION AND SEDIMENT CONTROL PLANS SUBMITTED BY A PROFESSIONAL ENGINEER AND REVIEWED BY A DUAL COMBINED ADMINISTRATOR FOR EROSION AND SEDIMENT CONTROL AND STORMWATR MANAGEMENT GUIDANCE

A. STATUTORY AND REGULATORY OBLIGATIONS

Except for Stormwater Management (SWM) Plans approved under Standards and Specification and exempt activities, the following land disturbing categories require SWM plan approvals from DEQ prior to land disturbance:

- Any proposed land-disturbing activity 1 acre or greater, or less than 1 acre and part of a larger common plan of development or sale that ultimately disturbs 1 or more acres, in a locality where DEQ is the Virginia Stormwater Management Program (VSMP) Authority (opt out localities) requires approval of a SWM Plan; and
- Any proposed land-disturbing activity for state or federal projects that is 1 acre or greater requires approval of a SWM Plan.

The Stormwater Management Act (§ 62.1-44.15:34 of the Code of Virginia) establishes review times for SWM Plans. In addition, the VSMP Regulation (9VAC25-870-108) provides further details on review requirements for SWM Plans. In general, when DEQ is the VSMP authority, the agency is required to review the SWM Plan submittal and determine the completeness of the SWM plan with 15 calendar days of receipt. If a determination of completeness is made and communicated to the applicant within the 15 calendar days, an additional 60 calendar days from the date of the communication is allowed for the review of the plan. If a determination of completeness is not made and communicated to the applicant within 15 calendar days of receipt, the SWM Plan shall be deemed complete as of the date of the submission and a total of 60 calendar days from the date of submission will be allowed for the plan review. For plans that are deficient, the law allows the agency 45 days to act on any resubmitted plans. In addition, the VSMP Regulation (9VAC25-870-108 B.3.) further provides that "[i]f a plan meeting all requirements of this chapter and the VSMP authority is submitted and no action is taken within the time specified, the plan shall be deemed approved."

Except for Erosion and Sediment Control (ESC) Plans approved under Standards and Specifications and exempt activities, the following land disturbing categories require ESC plan approvals from DEQ as the Virginia Erosion and Sediment Control Program (VESCP) authority prior to land disturbance:

- Stage agency land-disturbing activities greater than 10,000 square feet; and
- Federal entity land-disturbing activities greater than 10,000 square feet.

B. CRITERIA AND PROCESS FOR STREAMLINED SWM AND ESC PLAN REVIEW

In an effort to reduce delays due to plan review and improve the quality of plan submittal, DEQ is offering a streamlined plan review process.

The streamlined SWM Plan review process is only applicable when <u>all</u> of the conditions enumerated below are satisfied:

- 1. DEQ is the VSMP authority;
- 2. The SWM Plan has been prepared by a professional engineer licensed to engage in practice in the Commonwealth under Chapter 4 of Title 54.1 of the Code of Virginia. The professional engineer must sign, date and include their seal on the Plan Submission Checklist (Appendix A);
- 3. The SMW Plan has been prepared in accordance with DEQ Guidance Memo. 22-2012, Stormwater Management and Erosion & Sediment Control Design Guide;
- 4. The SWM Plan has been pre-reviewed by a person who holds an active certificate as a Dual Combined Administrator for ESC and SWM pursuant to 9VAC25-850-40 D.² The Dual Combined administrator must sign, date, and include their certificate number on the Plan Submission Checklist (Appendix A);³ and
- 5. The applicant or designer submits with the SWM Plan a complete and accurate Plan Submission Checklist (Appendix A) which includes the specified certifications by the professional engineer, Dual Combined Administrator for ESC and SWM, and the Owner/Operator.

The streamlined ESC Plan review process is only applicable when <u>all</u> of the conditions enumerated below are satisfied:

- 1. DEQ is the VESCP authority;
- 2. The ESC Plan has been prepared by a professional engineer licensed to engage in practice in the Commonwealth under Chapter 4 of Title 54.1 of the Code of Virginia. The

² 9VAC25-850-40 D provides: "Any person who holds a valid and unexpired certificate of competence issued by the board in the classification of ESC or SWM, or who obtains such a certificate, and who later successfully obtains an additional certificate of competence from the board in the parallel ESC or SWM classification may surrender both certificates of competence to the board and request in writing issuance of a dual certificate showing certification in both classifications. Such a request must be made while both of the ESC and SWM certificates of competence obtained are valid and unexpired. The expiration date of the dual certificate shall be three years from the date of expiration of the additional certificate acquired." Although professional engineers are already considered ESC Plan reviewers, for purposes of this streamlined plan review process a professional engineer fulfilling the role of a Dual Combined Administrator for ESC and SWM must have completed the ESC Plan Reviewer training class.

³ The Dual Combined Administrator may be the same as for ESC and SWM may be the same person as the professional engineer who prepared the SWM Plan. As noted above, although professional engineers are already considered ESC Plan reviewers, for purposes of this streamlined plan review process a professional engineer fulfilling the role of a Dual Combined Administrator for ESC and SWM must have completed the ESC Plan Reviewer training class.

professional engineer must sign, date and include their seal on the Plan Submission Checklist (Appendix A);

- 3. The ESC Plan has been prepared in accordance with DEQ Guidance Memo. 22-2012, Stormwater Management and Erosion & Sediment Control Design Guide;
- 4. The ESC Plan has been pre-reviewed by a person who holds an active certificate as a Dual Combined Administrator for ESC and SWM pursuant to 9VAC25-850-40 D.⁴ The Dual Combined administrator must sign, date, and include their certificate number on the Plan Submission Checklist (Appendix A);⁵ and
- 5. The applicant or designer submits with the ESC Plan a complete and accurate Plan Submission Checklist (Appendix A) which includes the specified certifications by the professional engineer, Dual Combined Administrator for ESC and SWM, and the Owner/Operator.

The streamlined SWM and ESC plan review process will be initiated when a SWM and/or ESC Plan is received with a completed and signed/sealed Plan Submission Checklist. If a SWM and/or ESC Plan is received with a Plan Submission Checklist, the DEQ plan reviewer should review the Plan Submission Checklist to determine eligibility with B(1) through B(5) above.

Pursuant to 9 VAC 25-870-108, within 15 calendar days of receipt of the SWM Plan DEQ staff should determine if the SWM Plan is complete in accordance with 9VAC25-870-55. If the SWM Plan is complete DEQ Staff should notify the applicant in writing that the SWM Plan is complete, pursuant to 9VAC25-870-108. Pursuant to 9VAC25-870-108 B.3, and if no further action is taken, sixty calendar days after the written notification of completeness to the applicant DEQ staff should inform the applicant that the plan is deemed approved. Otherwise, if DEQ elects to NOT conduct a completeness review during that initial 15 day period, and relies upon the certification by the professional engineer and Dual Combined Administrator for ESC and SWM, the 60-day period for streamlined approval will commence upon receipt of the SWM Plan.

Within 15 calendar days of receipt of the ESC Plan DEQ staff should determine if the ESC Plan is complete. If the ESC Plan is complete DEQ Staff should notify the applicant in writing that the ESC Plan is complete. If no further action is taken, sixty calendar days after the written notification of completeness to the applicant DEQ staff should inform the applicant that the plan

⁴ 9VAC25-850-40 D provides: "Any person who holds a valid and unexpired certificate of competence issued by the board in the classification of ESC or SWM, or who obtains such a certificate, and who later successfully obtains an additional certificate of competence from the board in the parallel ESC or SWM classification may surrender both certificates of competence to the board and request in writing issuance of a dual certificate showing certification in both classifications. Such a request must be made while both of the ESC and SWM certificates of competence obtained are valid and unexpired. The expiration date of the dual certificate shall be three years from the date of expiration of the additional certificate acquired." Although professional engineers are already considered ESC Plan reviewers, for purposes of this streamlined plan review process a professional engineer fulfilling the role of a Dual Combined Administrator for ESC and SWM must have completed the ESC Plan Reviewer training class.

⁵ The Dual Combined Administrator may be the same as for ESC and SWM may be the same person as the professional engineer who prepared the SWM Plan. As noted above, although professional engineers are already considered ESC Plan reviewers, for purposes of this streamlined plan review process a professional engineer fulfilling the role of a Dual Combined Administrator for ESC and SWM must have completed the ESC Plan Reviewer training class.

is deemed approved. Otherwise, if DEQ elects to NOT conduct a completeness review during that initial 15 day period, and relies upon the certification by the professional engineer and Dual Combined Administrator for ESC and SWM, the 60-day period for streamlined approval will commence upon receipt of the ESC Plan.

C. STREAMLINED SWM PLAN REVIEW PROCESS: FURTHER REVIEW, AUDIT, COMPLIANCE, AND ENFORCEMENT

DEQ retains its authority to further review any SWM and ESC Plan submitted under this streamlined SWM and ESC plan review process, and under its discretion require modification or re-submittal under the general plan review process. For purposes of this guidance the 60-day period will be considered to be the "Audit Period." During the Audit Period, DEQ may review plans and will provide any and all comments to the applicant for resubmission and further review. Plans for audit review will be selected by DEQ on the basis of workload and project risk level (by looking at project disturbance area, percentage of disturbed land with higher risks for erosion, and the percentage of impervious cover?).

If during a compliance inspection or complaint investigation, DEQ staff observes deficiencies in the SWM and/or ESC plan or impacts to the environment as a result of a SWM and/or ESC Plan deficiency, DEQ may require a modification to the SWM and/or ESC Plan. DEQ retains its authority to elevate violations to enforcement for resolution, and approval through this streamlined SWM and/or ESC plan review process does not waive any responsibility of the permittee/owner.

If DEQ observes a trend of deficient SWM and/or ESC plans that were reviewed by the same Dual Combined Administrator for ESC and SWM, DEQ reserves the authority to suspend, revoke or refuse to grant or review the certification pursuant to the process provided in 9VAC25-850-90 and no longer accept that Dual Combined Administrator for ESC and SWM's Certification for the streamlined review unless that person retakes all six (6) required classes and passes the related tests to receive a new certification number. For professional engineers, DEQ will notify the Virginia Department of Professional and Occupational Regulation (DPOR) for their review. For purposes of this guidance DEQ defines a trend of deficiency as:

- a) Five incomplete review checklists, and/or:
- b) Three plan reviews which generate comments that are deemed significant enough to require resubmission in lieu of plan approval.

Qualifying for the streamlined SWM and ESC plan review process does not alleviate the permittee/owner from the obligation to comply with any statute, regulation, permit condition,

⁷ For purposes of this guidance, as a rule of thumb, if greater than 25% of the Limits of Disturbance (LOD) is Impervious (including unconnected impervious area), then DEQ will consider the site to be High Risk, if 10-25% of the site is Impervious then DEQ will consider the site to be Medium Risk, and if less than 10% of the site is Impervious, then DEQ will consider the site to be low risk.

⁶ For purposes of this guidance, as a rule of thumb, if greater than 25% of the Limits of Disturbance (LOD) is Highly Erodible Lands (HEL) as defined by the NRCS, then DEQ will consider the site to be High Risk, if 10-25% of the site is HEL then DEQ will consider the site to be Medium Risk, and if less than 10% of the site is HEL, then DEQ will consider the site to be low risk.

DEQ Guidance, memo or letter to Industry from DEQ, Technical Bulletin, other order, certificate, certification, DEQ Manual, standard, or other applicable requirement.8

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⁸ This includes documents issued or promulgated initially by the Department of Conservation and Recreation or Soil and Water Conservation Board prior to the SWM program moving to DEQ and the State Water Control Board in 2014.

APPENDIX A PLAN SUBMISSION CHECKLIST

The Plan Submission Checklist should be completed in its entirety and included on the Cover Sheet of all plans submitted to the Department. <u>DEQ will consider your submission incomplete if you do not provide an answer (or indicate "NA" or "not applicable") for all fields on the checklist.</u>

PLAN SUBMISSION CHECKLIST

A. APPLICATION TYPE			
☐ Initial Submission			
☐ Resubmission	DEQ Plan #:		
☐ Modification with Acreage Increase	DEQ Plan #:		
☐ Modification without Acreage Increase	DEQ Plan #:		
B. DESIGN PROFESSIONAL			
Design Firm:			
Contact Name:			
Mailing Address:			
City:			
Telephone No.:			
Email Address:			
C. PROJECT DEVELOPER			
Project Developer:			
Contact Name:			
Mailing Address:			
City:	State:	Zip:	
Telephone No.:			
Email Address:			
D. PROPERTY OWNER [repeat as necessary for	all property owners]		
Property Owner:			
Contact Name:			
Mailing Address:			
City	State:	7in:	

Telephone No.:					
Email Address:					
E. PROJECT INF	ORMATION				
Project Name (as it a	ppears on the pla	ans):			
Address (911 address	s if available):				
City:			State:	Zip:	
County (if not locate	d within a City):				
Tax Map No. (or GP	IN):				
[repeat as necessary :	for all Tax Map	Nos. or GPINs]			
Latitude (6 digits, de	cimal degrees fo	rmat):			
Longitude (6 digits, o	decimal degrees	format):			
Total Land Area of I	Development (1/1	100th of an acre)	<u> </u>		
Estimated Area to be	Disturbed (1/10	0th of an acre):_			
Project Status:	☐ Federal	☐ State	☐ Public	☐ Private	
Part of a Larger Com	nmon Plan of De	velopment?	□ Yes	□ No	
Offsite Improvement	ts Proposed?		□Yes	□ No	
F. OFFSITE SUPI	PORT ACTIVIT	ΓΥ INFORMA	TION		
Offsite Support Activ	vity Name:				
Address (911 address	s if available):				
City:			State:	Zip:	
County (if not locate	d within a City):				
Tax Map No. (or GP	IN):				
[repeat as necessary :	for all Tax Map	Nos. or GPINs]			
Latitude (6 digits, de	cimal degrees fo	rmat):			
Longitude (6 digits, o	decimal degrees	format):			
Estimated Offsite Ar	ea to be Disturbe	ed (1/100 th of an	acre):		

G. PLAN INFORMATION [provide the plan sheet number where information is located]

General Plan Information	Plan Sheet No.
1. Vicinity map	
2. North arrow	
3. Plan legend	
4. Plan scale	
5. Plan sheet index	

Pre-development Site Information	Plan Sheet No.
6. Narrative of pre-development site conditions	
7. Existing property boundaries (inc. lease boundaries)	
8. Existing topography (existing contours)	
9. Existing streams, ponds, ditches, wetlands & other water bodies	
10. Existing karst features	
11. Existing 100-year FEMA floodplain	
12. Resource Protection Areas	
13. Existing Improvements (inc. buildings, roads, parking & utilities)	
14. Existing vegetative areas (inc. forest cover, open space & turf)	
15. Existing land cover / use tabulation	Sec. H, checklist
16. Existing easements (inc. Deed Book/Page ref. or Instrument #)	
17. Pre-development drainage areas (inc. acreage, divides and flow paths)	

Post-development Site Information	Plan Sheet No.
18. Narrative of post-development site conditions	
19. Proposed property boundaries (inc. lease boundaries)	
20. Proposed limits of land disturbance (limits of clearing & grading)	
21. Proposed grading (proposed contours inc. stormwater practices)	
22. Proposed 100-year FEMA floodplain	
23. Proposed improvements (inc. buildings, roads, parking & utilities)	
24. Proposed vegetative areas (inc. forest cover, open space & turf)	
25. Proposed land cover /use tabulation	Sec. H, checklist
26. Proposed easements	
27. Post-development drainage areas (inc. acreage, divides and flow paths)	

Erosion & Sediment Control Information	Plan Sheet No.
28. Narrative of proposed erosion & sediment controls	
29. Minimum standards (9VAC25-840-40)	
30. Critical erosion areas (see VESCH, Chapter 6)	
31. Proposed erosion & sediment controls (see VESCH, Chapter 3)	
32. Erosion & sediment control detail drawings	
33. Hydrologic & hydraulic computations (inc. runoff characteristics)	
34. Inspection, operation & maintenance requirements	

Post-development Water Quantity & Water Quality Control Information	Plan Sheet No.
35. Narrative of proposed stormwater management facilities / practices	
36. Proposed stormwater management facilities / practices	Sec. L, checklist
37. Hydrologic & hydraulic computations (inc. runoff characteristics)	
38. Long-term inspection, operation & maintenance requirements	

Soils & Geotechnical Information	Plan Sheet No.
39. Soils map (inc. NRCS soil types)	
40. Soils tabulation	Sec. I, checklist
41. Geotechnical investigation / report (inc. acid forming soils, karst, impoundments & site preparation)	

Other Supporting Information	Plan Sheet No.
42. Boundary survey (see 18VAC10-20-370)	
43. Physical improvement survey (see 18VAC10-20-380)	
44. Topographic survey (see 18VAC10-20-382)	

H. LAND COVER TABULATION [acreages reported to 1/100th of an acre]

Existing Land Cover / Use	Acres
1. Impervious Cover	
Impervious Cover (percentage of total land area of development)	%
2. Managed Turf	
3. Open Space	
4. Forest Cover	
5. Prime Farmland (per NRCS Farmland Classification)	

Proposed Land Cover / Use (per "Site" tab of VRRM spreadsheet)	Acres
1. Impervious Cover	
Impervious Cover (percentage of total land area of development)	%
2. Managed Turf	
3. Open Space	
4. Forest Cover	

I. SOILS TABULATION [acreages reported to 1/100th of an acre]

Map Unit Symbol	Map Unit Name	HSG	K factor	Erodibility	Acres in LOD	% of LOD
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[&]quot;HSG" means Hydrologic Soil Group. See Appendix 6C of 1992 Virginia Erosion & Sediment Control Handbook for groupings.

K factor indicates the susceptibility of soil to the forces of erosion. See Appendix 6C of 1992 Virginia Erosion & Sediment Control Handbook for reported values.

Erodibility (Low, Moderate or High). See Appendix 6A of 1992 Virginia Erosion & Sediment Control Handbook for groupings based on K factor.

"LOD" means Limits of Land Disturbance (limits of clearing & grading).

J. EROSION & SEDIMENT CONTROL ESC Plan Variance Request? ☐ Yes □ No If "yes", please provide justification for the variance request: K. STORMWATER MANAGEMENT Applicable Design Criteria: ☐ Part II B ☐ Part II C (Grandfathering) ☐ Part II C (Time Limits on Applicability) ☐ "Safe Harbor" (Va. Code § 62.1-44.15:28.A.10) Offsite Compliance Option(s)? □ No ☐ Yes If "yes", please describe the offsite compliance option(s) (see 9VAC25-870-69):_____ Discharge to a karst feature(s)? \square Yes □ No If "yes", please describe the karst feature(s):

If "yes", please describe any known natural heritage resources in the karst feature(s):					
SWM Plan Exception Request?					
If "yes", please provide justification	for the exception	ı request:			
L. STORMWATER MANAGEM to 6 digits, decimal degrees form			de and longitude reported		

to 6 digits, decimal degrees format; acreages reported to 1/100th of an acre

Facility No.	Facility Type	Lat.	Long.	Rec. Water	Tot. Acres Treated	Imp. Acres Treated	Plan Sheet No.

M. OWNER / DEVELOPER CERTIFICATION

I hereby certify that coverage under the General VPDES Permit for Discharges of Stormwater from Construction Activities will be obtained, if required, prior to commencing land-disturbing activities.

I hereby certify that all wetlands permits required by law will be obtained, if required, prior to commencing land disturbing activities.

I hereby certify that permission to construct any offsite improvements, if proposed, will be obtained prior to commencing land disturbing activities.

I hereby certify that all offsite nonpoint source nutrient credits will be obtained, if proposed, prior to commencing land disturbing activities.

I hereby certify that construction record drawings (as-built drawings) for all permanent stormwater management facilities/practices will be prepared and submitted to DEQ prior to project closeout. The construction record drawings will be appropriately sealed and by a professional registered in the Commonwealth of Virginia, certifying that the stormwater management facilities/practices have been constructed in accordance with the approved plan(s).

facilities/practices and other techniques specified to manage the quality and quantity of runoff will be submitted to DEQ, if required, prior to project closeout. The long-term maintenance agreement(s) will be recorded in the local land records prior to termination of coverage under the General VPDES Permit for Discharges of Stormwater from Construction Activities. Owner / Developer Name: Owner / Developer Title: Signature: N. DESIGN PROFESSIONAL CERTIFICATION I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations. I hereby certify that the plans and hydrologic & hydraulic computations herein are in compliance with the Stormwater Management Act and attendant regulations, the Erosion and Sediment Control Law and attendant regulations, and applicable DEO guidance. Design Professional Name: O. DUAL COMBINED ADMINISTRATOR (DCA) CERTIFICATION I hereby certify that I have reviewed the plans and hydrologic & hydraulic computations herein for compliance with the Stormwater Management Act and attendant regulations, the Erosion and Sediment Control Law and attendant regulations, and applicable DEO guidance, and recommend the plans and computations for DEQ approval. DCA Name: DCA Certification No.:____

I hereby certify that a long-term maintenance agreement(s) for all permanent stormwater management