APPENDIX O

DCR Approvals/Conditional Approvals

W. Tayloe Murphy, Jr. Secretary of Natural Resources



Joseph H. Maroon Director

COMMONWEALTH of VIRGINIA

DEPARTMENT OF CONSERVATION AND RECREATION

203 Governor Street, Suite 206 Richmond, Virginia 23219 Phone: (804) 786-2064 - Fax: (804) 786-1798

February 17, 2005

Mr. Mohammad Mirshahi, P.E. State Location and Design Engineer Virginia Department of Transportation 1401 East Broad Street Richmond, Virginia 23219

RE: 2005 VDOT Annual Standards and Specifications for Erosion and Sediment Control and Stormwater Management Programs

Dear Mr. Mirshahi:

This letter is in response to your January 4, 2005 letter requesting that the approved 2004 Virginia Department of Transportation's (VDOT) Standards and Specifications for Erosion and Sediment Control and Stormwater Management Programs be extended for calendar year 2005. The Department of Conservation and Recreation (DCR) will grant the extension for the 2004 standards and specifications for calendar year 2005 until the re-organized VDOT teams can successfully resolve the three outstanding issues from the 2004 standards and specifications. The three outstanding issues are: Outlet Protection Policy; Pollution Prevention Messages on Stormwater Structures; and Nutrient Management Policy. This approval will not extend beyond December 31, 2005.

DCR staff wants to meet with the appropriate VDOT team to discuss the three outstanding issues and the June 29, 2004 Memorandum from Malcolm T. Kerley, P.E. regarding erosion and sediment control certification in accordance with Section 107.14(a) of the 2004 Road and Bridge Specifications. DCR believes that the memorandum does not adequately address the training and certification requirements of the Erosion and Sediment Control Law and we believe revisions are necessary to Section 107.14 and the memorandum to adequately address VDOT's training needs. I have designated Lee Hill

State Parks • Soil and Water Conservation • Natural Heritage • Outdoor Recreation Planning Chesapeake Bay Local Assistance • Dam Safety and Floodplain Management • Land Conservation as the DCR contact to coordinate the meeting. Please contact Lee at (804) 786-3998 or by email at <u>lcc.hill@dcr.virginia.gov</u> to establish a date for the meeting.

We look forward to working with the VDOT teams on the outstanding issues and any other issues related to the standards and specifications.

Sincerely,

E. Fre

Jack E. Frye, Division Director Soil and Water Conservation

cc: Malcolm T. Kerley, P.E. Constance Sorrell Jeffrey Southard W. Byron Coburn, P.E. Quintin Elliott Brian Waymack Earl Robb Emmett R. Heltzel, P.E. Roy Mills Joseph G. Battiata, P.E. Lee Hill Eric Capps Larry Gavan L. Preston Bryant, Jr. Secretary of Natural Resources



Joseph H. Maroon Director

COMMONWEALTH of VIRGINIA

DEPARTMENT OF CONSERVATION AND RECREATION

203 Governor Street, Suite 206 Richmond, Virginia 23219 Phone: (804) 786-2064 Fax: (804) 786-1798

June 9, 2006

Mr. Roy T. Mills State Hydraulic Engineer Virginia Department of Transportation 1401 East Broad Street Richmond, Virginia 23219

Subject: 2006 VDOT Annual Specifications and Standards for Erosion and Sediment Control and Stormwater Management

Dear Mr. Mills:

In accordance with § 10.1-564 of the Virginia ESC Law and § 10.1-603.5 of the Virginia SWM Law, the Department of Conservation and Recreation (DCR) has completed the review of the 2006 VDOT Annual Standard and Specifications for Erosion & Sediment Control and Stormwater Management and they are conditionally approved. The conditional approval is based on DCR staff review and recommendations. The approval contains the following conditions:

- 1. The proposed standard details and procedures for culvert outlet protections will be implemented into all plans developed after December 10, 2006 provided there will be no impacts to the right of way previously acquired or authorized for acquisition and there will be no impacts to previously acquired water quality permits. Once actual field implementation occurs, VDOT will visually monitor and document the implementation and performance of the proposed outlet protection policy with digital photographs of the outlet conditions at 5 outlets per VDOT District. VDOT will submit monitoring reports with digital photographs of the outlets at installation and at six-month intervals for a two-year period to the Virginia Department of Conservation and Recreation, Division of Soil and Water Conservation.
- Eliminate the specification and use of Silt Fence for concentrated flows greater than 1
 c. f. s. All plans developed after December 10, 2006 will reflect this limitation in
 concentrated flow areas.

State Parks • Soil and Water Conservation • Natural Heritage • Outdoor Recreation Planning Chesapeake Bay Local Assistance • Dam Safety and Floodplain Management • Land Conservation 3. Revised site-specific nutrient management specifications (N-P-K and lime application rates and procedures) will be utilized on all state force construction operations undertaken after July 1, 2006 and included on all plans developed after December 10, 2006. Soil testing and determination of N-P-K and lime application rates will be in accordance with the VDOT Road and Bridge Specifications Section 603.3c and the VDOT Nutrient Management Plans Chapter 10: Active Construction.

Please note that all regulated land disturbing activities undertaken on private and publicly owned lands in Virginia must be conducted in accordance with the conditionally approved 2006 VDOT Annual Standard and Specifications. Individual project-specific erosion and sediment control plans and stormwater management plans must be prepared to ensure proper on site implementation of erosion and sediment control and stormwater management measures. However, these plans need not be submitted to DCR for approval as long as they comply with the conditionally approved 2006 VDOT Annual Standard and Specifications.

To ensure compliance with conditionally approved specifications and the Virginia Erosion and Sediment Control Law and the Stormwater Management Law, staff in DCR regional and central offices will conduct random site inspections, respond to complaints, and provide on site technical assistance with specific erosion and sediment control and stormwater management measures and plan implementation.

Thank you very much for your submission and continued efforts to conserve and protect Virginia's precious natural resources.

Sincerely, Jack E. Frve

Soil and Water Conservation Division Director

cc: Eric Capps, DCR

VDOT Annual				D	OCR	VDO)T	
Specifications Appendix	VDOT Document	VDOT Document Sections	Current Date	Approved	Conditionally Approved	Pending Internal Approval	Pending Revisions	Notes
Appendix F	ESC & SWM Plan Development/Implementation Process	ESC/SWM/VSMP Requirements Flowchart	Nov. 15, 2005					New item based on 11/14/03 comments
Appendix F	ESC & SWM I&IM	IIM-LD-11.23 ESC - Revised	June 6, 2003				\square	
Appendix F	ESC & SWM I&IM	IIM-LD-73.3 Riprap	Jan 24, 1991					
Appendix F	ESC & SWM I&IM	IIM-LD-110.16 General Notes	Nov. 21, 2003					
Appendix F	ESC & SWM I&IM	IIM-LD-121.15 Pipe Criteria and Drainage Instructions	Aug. 26, 2005					
Appendix F	ESC & SWM I&IM	IIM-LD-122.11 Roadside Developm	Jan 13, 2005					
Appendix F	ESC & SWM I&IM	IIM-LD-166.3 Soil Stabilization Mat	Mar 22, 1996					
Appendix F	ESC & SWM I&IM	IIM-LD-195.5 Management of Stormwater	Feb. 12, 2003					
Appendix F	ESC & SWM I&IM	IIM-LD-228 Sinkholes	Aug 15, 2002					
Appendix G	VDOT Road Design Manual	Appendix A, pages A105-A140	7/11/05					
Appendix H	Road & Bridge Standards	EC-1	2002					
Appendix H	Road & Bridge Standards	EC-2	2002					
Appendix H	Road & Bridge Standards	EC-3	2005					Std. 114.03

TABLE 1: 2006 VDOT Annual Erosion an Sediment Control and Stormwater Management Standards and Specifications

VDOT Annual						D	CR	2		VDOT				-	
Specifications Appendix	VDOT Document	VDOT Document Sections	Current Date	Ap	Approved		Conditionally Approved				nternal Revision		Pending Revisions		
Appendix H	Road & Bridge Standards	EC-4	2002												
Appendix H	Road & Bridge Standards	EC-5	2003				[
Appendix H	Road & Bridge Standards	EC-6	2003												
Appendix H	Road & Bridge Standards	EC-7	2002												
Appendix H	Road & Bridge Standards	EC-8	2002												
Appendix H	Road & Bridge Standards	EC-9	2002												
Appendix H	Road & Bridge Standards	L-3 Typical for Plant Benching	2002				[
Appendix H	Road & Bridge Standards	Roadside Development Sheet a4	2003				[[
Appendix H	Road & Bridge Standards	EC Summary a5	2002				[[
Appendix H	Road & Bridge Standards	Temp. Sediment Trap Detail a6	2002				[[
Appendix H	Road & Bridge Standards	Sink Hole Details Isd2944	2002				[
Appendix H	Road & Bridge Standards	Temp. Diversion Channel & Acceptable Linings	2002				[[
Appendix H	Road & Bridge Standards	ESC-INS Sheet 1	2004												Std. 115.01
Appendix H	Road & Bridge Standards	ESC-INS Sheet 2	2004												
Appendix H	Road & Bridge Standards	ESC-INS Sheet 3	2004				[
Appendix H	Road & Bridge Standards	PG-2A – Standard Paved Ditch - Triangular	2004				[
Appendix H	Road & Bridge Standards	PG-3 - Standard Rip Rap	2004				[

 TABLE 1: 2006 VDOT Annual Erosion an Sediment Control and Stormwater Management Standards and Specifications

VDOT Annual		VDOT Document Sections	Current Date	D	OCR	VDO)T	
Specifications Appendix	VDOT Document			Approved	Conditionally Approved	Pending Internal Approval	Pending Revisions	Notes
		Ditch & Slope Protection						
Appendix H	Road & Bridge Standards	PG-5 – Standard Paved Ditch - Trapezoidal	2002					
Appendix H	Road & Bridge Standards	SWM-1 (Cast-In-Place)	2003					
Appendix H	Road & Bridge Standards	SWM-1 (Precast)	2003					
Appendix H	Road & Bridge Standards	SWM-DR - Sheet 1	2003					
Appendix H	Road & Bridge Standards	SWM-DR - Sheet 2	2003					
Appendix H	Road & Bridge Standards	SWM-DR - Sheet 3	2003					
Appendix H	Road & Bridge Standards	SWM-DR - Sheet 4	2003					
Appendix H	Road & Bridge Standards	SWM-DR - Sheet 5	2003					
Appendix I	Road & Bridge Specifications - Division I	Sec. 101 Definitions	2002					
Appendix I	Road & Bridge Specifications - Division I	Sec. 103 Award and Execution	2002					
Appendix I	Road & Bridge Specifications - Division I	Sec. 104 Scope of Work	2002					
Appendix I	Road & Bridge Specifications - Division I	Sec. 105 Control of Work	2002					
Appendix I	Road & Bridge Specifications - Division I	Sec. 106 Control of Material	2003					
Appendix I	Road & Bridge Specifications - Division I	Sec. 107 Legal Relations & Public Responsibility	2003					
Appendix I	Road & Bridge Specifications - Division I	Sec. 108 Prosecution & Progress of Work	2002					

TABLE 1: 2006 VDOT Annual Erosion an Sediment Control and Stormwater Management Standards and Specifications

VDOT Annual					OCR	VDO)T	
Specifications Appendix	VDOT Document	VDOT Document Sections	Current Date	Annroved Co	Conditionally Approved	Pending Internal Approval	Pending Revisions	Notes
Appendix I	Road & Bridge Specifications - Division II	Sec. 203 Coarse Aggregate	2002					
Appendix I	Road & Bridge Specifications - Division II	Sec. 204 Stone for Masonry, Riprap, Porous Backfill, and Gabions	2002					
Appendix I	Road & Bridge Specifications - Division II	Sec. 239 Sodium Chloride – Calcium Chloride	2002					
Appendix I	Road & Bridge Specifications - Division II	Sec. 240 Lime	2002					
Appendix I	Road & Bridge Specifications - Division II	Sec. 242 Fences	2003					
Appendix I	Road & Bridge Specifications - Division II	Sec. 244 Roadside Development Materials	2003					
Appendix I	Road & Bridge Specifications - Division II	Sec. 245 Geosynthetics	2003					
Appendix I	Road & Bridge Specifications - Division III	Sec. 301 Clearing & Grubbing	2003					
Appendix I	Road & Bridge Specifications - Division III	Sec. 302 Drainage Structures	2002					
Appendix I	Road & Bridge Specifications - Division III	Sec. 303 Earthwork	2003					
Appendix I	Road & Bridge Specifications - Division IV	Sec. 401 Structure Excavation	2002					
Appendix I	Road & Bridge Specifications - Division IV	Sec. 402 Sheet Piles	2002					
Appendix I	Road & Bridge Specifications - Division IV	Sec. 413 Dismantling & Removing Structures	2002					

 TABLE 1: 2006 VDOT Annual Erosion an Sediment Control and Stormwater Management Standards and Specifications

VDOT Annual				D	OCR	VDO)T	
Specifications Appendix	tions VDOT Document VDOT Document Current VDOT Document Date Approved Condi	Conditionally Approved	Pending Internal Approval	Pending Revisions	Notes			
Appendix I	Road & Bridge Specifications - Division IV	Sec. 411 Protective Coatings of Metal in Structures	2002					
Appendix I	Road & Bridge Specifications - Division IV	Sec. 414 RipRap	2002					
Appendix I	Road & Bridge Specifications - Division IV	Sec. 415 Concrete Slope Protection	2002					
Appendix I	Road & Bridge Specifications - Division IV	Sec. 418 Timber Structure	2002					
Appendix I	Road & Bridge Specifications - Division V	Sec. 501 Underdrains	2003					
Appendix I	Road & Bridge Specifications - Division V	Sec. 506 - Retaining Walls	2002					
Appendix I	Road & Bridge Specifications - Division V	Sec. 511 Allaying Dust	2002					
Appendix I	Road & Bridge Specifications - Division V	Sec. 512	2003					
Appendix I	Road & Bridge Specifications - Division V	Sec. 520 Water & Sanitary Sewer Facilities	2002					
Appendix I	Road & Bridge Specifications - Division VI	Sec. 602 Topsoil	2002					
Appendix I	Road & Bridge Specifications - Division VI	Sec. 603 Seeding	2002				\square	
Appendix I	Road & Bridge Specifications - Division VI	Sec. 604 Sodding	2002					
Appendix I	Road & Bridge Specifications - Division VI	Sec. 605 Planting	2002					
Appendix I	Road & Bridge Specifications - Division VI	Sec. 606 Soil Retention Coverings	2002					
Appendix I	Road & Bridge Specifications -	Sec. 607	2002					

 TABLE 1: 2006 VDOT Annual Erosion an Sediment Control and Stormwater Management Standards and Specifications

VDOT Annual					CR	VDO	- T(
Specifications Appendix	VDOT Document	VDOT Document Sections	Current Date	Approved	Conditionally Approved	Pending Internal Approval	Pending Revisions	Notes
	Division VI	Herbicide Spraying						
Appendix I	Road & Bridge Specifications - Division VI	Sec. 608 Mowing	2002					
Appendix I	Road & Bridge Specifications - Division VI	Sec. 609 Tree Wells & Tree Walls	2002					
Appendix I	Road & Bridge Specifications - Division VI	Sec. 610 Gabions	2002					
Appendix I	Road & Bridge Specifications Special Provisions & Copied Notes	c100b, c101a,c105c, c301a, c303c, c512c, S106A, S107D, S107F, S107G, S244A, S245A, S303, 303A, S303D, S303C, S303E, S501B	Varies					c301a, c303c Revised 10/31/05
Appendix J	Erosion and Sediment Control Inspection Forms, Related Construction Forms & Memoranda	C-107a&b, C-10, C-12, C-18a, C-26, C-36i, C36, C-45, C-5, C-54, C-83, C- 84, CD-2002-9	Varies					New Items
Appendix K	VDOT Stormwater Management Maintenance Program	SWM Facilities Maintenance Program	2002					Previously Conditionally Approved
Appendix K	VDOT Stormwater Management Maintenance Program	SWM Basin Maintenance Inspection Checklist	2002					Previously Conditionally Approved
Appendix M	Pending Special Provisions							No new items
Separate Cover	VDOT Drainage Manual	Chapter 6	2002					

 TABLE 1: 2006 VDOT Annual Erosion an Sediment Control and Stormwater Management Standards and Specifications

VDOT Annual				D	OCR	VDO	T	
Specifications Appendix	VDOT Document	VDOT Document Sections	Current Date	Approved	Conditionally Approved	Internal	Pending Revisions	Notes
Separate Cover	VDOT Drainage Manual	Chapter 7	2002	\boxtimes				
Separate Cover	VDOT Drainage Manual	Chapter 8	2002					Sections re: Outlet Protection
Separate Cover	VDOT Drainage Manual	Chapter 10	2002	\boxtimes				
Separate Cover	VDOT Drainage Manual	Chapter 11	2003	\boxtimes				

 TABLE 1: 2006 VDOT Annual Erosion an Sediment Control and Stormwater Management Standards and Specifications