## NUTRIENT MANAGEMENT for ACTIVE CONSTRICTION

Project No.:	PPMS No.:	NMP Issued by:	Date:
		4000000	

## INTRODUCTION:

- In accordance with the provisions of the Nutrient Management Plan (NMP) all fertilizer may be applied between applied between March 15<sup>th</sup> and November 1<sup>st</sup>. In the Fredericksburg, Hampton Roads and Richmond Districts, fertilizer may be applied from March 1<sup>st</sup> and November 15<sup>th</sup>. When the Engineer determines that fertilization must be completed outside the NMP fertilization window, the fertilizer must be applied at the Temporary Seeding fertilizer rate.
- The N fertilizer rate is limited to 45 lbs/acre of nitrogen (1 lbs/1000 ft²) at each application and separated by at least 30 days. A maximum of 90 lbs/acre (2 lbs/1000 ft²) of 100% water soluble nitrogen (WSN) may be applied per year. Phosphorus, potassium and lime rates are based on soil test results.
- All fertilizer ratios are given on an N-P<sub>2</sub>O<sub>2</sub>-K<sub>2</sub>O basis.
- There is a difference between the words "pounds of fertilizer per acre" and "pounds of nutrients per area." For example, 98 lbs/acre of 46-0-0 contains 45 lbs/acre of elemental nitrogen (N).
- In order to maximize fertilizer effectiveness and uptake efficiency, soil pH **must be adjusted** to the optimal range of 6.0 to 6.5 whenever fertilizers are applied. For normal soil materials, liming recommendations will be based upon standard agronomic criteria to maintain soil pH between 6.0 and 6.5. Lime rates are based on Tables 3-1 and 3-3 in the Virginia Nutrient Management Standards and Criteria, Revised October 2005. Lime rates supplied by the District Roadside Manager are based on liming materials at 100% CCE. Liming rates for materials that are not 100% CCE (± 10%) must be adjusted accordingly.
- VDOT will recognize environmentally sensitive sites as defined in Section 1A of the 2005 Virginia Nutrient Management Standards and Criteria and limit N and P applications appropriately. Nutrient application setbacks as set forth in Section 1B (e.g. 100 feet from wells or springs, 50 feet from surface water, 50 feet from sinkholes, 50 feet from naturally occurring limestone outcrops and 25 feet from all other naturally occurring rock outcrops) will be rigorously adhered to. However, this plan was developed such that the rate and timing of nutrient applications safeguards water quality and the plan is appropriate for use in environmentally sensitive areas. Nutrients may be applied closer to surface waters when appropriate erosion and sediment control BMP's are in place.
- Soil sampling and testing shall be executed prior to lime and nutrient application for new construction (any time the subsoil is disturbed) or repair of
  previously vegetated areas, AND the area is greater than 2 acres. (Soil samples should be collected as stated in the current Nutrient Management Plan.)

Type of Seeding	Area Acres	Fertilizer Ratio Lbs./Ac	Lime Tons/Ac.		Fertilizer Tons	Lime Tons
Seeding on 2" of						
Class A or B						
Topsoil						
The Contractor shall submit	soil samples for Cla	ass A or Class B topsoil	analyzed by a Department of	f		
Conservation and Recreation	n approved laborator	ry; A&L Eastern Agricul	tural Laboratories, Brookside			
Laboratories, Spectrum An	alytical Laboratories,	Virginia Tech Soil Te	sting Laboratory, or Waters	s		
Agricultural Laboratories. S	oil analysis of topsoil	l shall including pH, extra	ctable nutrients, soluble salts	,		
mechanical analysis (compo	sition), salinity, perce	ntage of organic content, a	and USDA soil texture class.			
Since the soil sample cannot	the submitted by the (	Contractor until after the n	roject is awarded the NMP			
Since the soil sample cannot be submitted by the Contractor until after the project is awarded, the NMP derived fertilizer ratio and lime rate for the Topsoil, will be specified after the start of the project. The						
District Roadside Manager will determine the amount and ratio of fertilizer that can be applied based on						
the soil test report and NMP		Junt and ratio of fertilizer	mat can be applied based on			

Regular Seeding						
Fertilizer Rate						
	rtilizer may be applie	d for the life of the proje	ect and will be applied with		O TOTAL CONTROL OF THE PROPERTY OF THE PROPERT	
the Regular Seeding (core mix). The rate and type of fertilizer applied must conform to the NMP for Active Construction (Chapter 10).						
When the Engineer determines that additional seeding and fertilization is required, a new soil sample must be taken and tested, and the fertilizer rates and type must be applied in accordance with the NMP for Active Construction (Chapter 10). For over-seeding, use Over-seeding Fertilization Rate below.						
fertilization window, fertili	zer and lime must be apere of the fertilizer ration of the fertilizer ration (% CCE (± 10%). The grand the Temporary States	opplied at the Temporary Set to as specified for Regular Set balance of the fertilizer are Seeding fertilizer and lime	Seeding and the lime at the and the lime (difference rates) may be applied as			
Temporary						
Seeding Fertilizer Rate						
The Temporary Fertilizer rate is defined as 50% of the lbs/acre of the fertilizer ratio (N-P <sub>2</sub> O <sub>2</sub> -K <sub>2</sub> O) specified for Regular Seeding and lime at the rate of 1 tons/acre with 100% CCE (± 10%).  The rate of fertilizer (N-P <sub>2</sub> O <sub>2</sub> -K <sub>2</sub> O), applied after construction resumes, is based on whether or not the site is regraded to expose subsoil materials.  1. If the area receiving the Temporary Seeding fertilizer rate is regraded to expose subsoil, apply the Regular Seeding rate of fertilizer and lime.  2. If the area receiving the Temporary Seeding fertilizer rate is not regraded then apply only 50% of the Regular Seeding rate of N-P <sub>2</sub> O <sub>2</sub> -K <sub>2</sub> O and lime, no sooner than 30 days after previous fertilizer application.						

Over-seeding					
Fertilizer Rate					
			ing stand of the permanent		
			ob (grass and/or legumes),		
			such as rye and millet are		
temporary varieties and ar	e not considered perman	ent vegetative cover.		A	
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Manager should be contact			tion, the District Roadside		
			eloped based on the soil test		
report.	based fertilizer/fillie fec	ommendation will be deve	eroped based on the son test		
report.					
Over-seeding should alwa	vs be accompanied by th	e application of fertilizer	and lime as specified in the		
NMP.	,		r		
				A	
The nitrogen application r	ate is limited to 45 lbs/ac	re (1 lbs/1000 ft²) at each	application and separated by		
			nan 30 days have passed since		
			soluble nitrogen (WSN) may		
			soil sample is taken and new	4	
NMP recommendations at	e developed based on the	e soil test report.			