NUTRIENT MANAGEMENT for ACTIVE CONSTRICTION

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

INTRODUCTION:

- In accordance with the provisions of the Nutrient Management Plan (NMP) all fertilizer may be applied between applied between March 15th and November 1st. In the Fredericksburg, Hampton Roads and Richmond Districts, fertilizer may be applied from March 1st and November 15th. 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-P₂O₂-K₂O 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		
Conservation and Recreation approved laboratory; A&L Eastern Agricultural Laboratories, Brookside					
Laboratories, Spectrum An	alytical Laboratories,	Virginia Tech Soil Te	esting Laboratory, or Waters		
Agricultural Laboratories. So	oil analysis of topsoi	l shall including pH, extra	actable nutrients, soluble salts,		
mechanical analysis (compo	sition), salinity, perce	entage of organic content,	and USDA soil texture class.		
			' .' 1.1.1 ND		
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					
C	7	ount and ratio of fertilizer	that can be applied based on		
the soil test report and NMP	•				

Regular Seeding						
Fertilizer Rate						
	rtilizer may be applie	d for the life of the proje	ect and will be applied with		o los los los los los los los los los lo	
the Regular Seeding (core Active Construction (Chap	mix). The rate and type			4		
When the Engineer determs must be taken and tested, a for Active Construction (Co	nd the fertilizer rates ar	nd type must be applied in	accordance with the NMP			
fertilization window, fertili	zer and lime must be a cre of the fertilizer ration of CCE (± 10%). The grand the Temporary S	opplied at the Temporary Set 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 Regular Seed 2. If the area receive	ng and lime at the rate O ₂ -K ₂ O), applied after absoil materials. Ing the Temporary Seeing rate of fertilizer and the Temporary Seeing the Temporary Seeing the Temporary Seeing rate of N-P ₂ O ₂ -1	of 1 tons/acre with 100% of construction resumes, is beling fertilizer rate is regract lime.	CCE (± 10%). The passed on whether or not the ded to expose subsoil, apply egraded then apply only 50%			

Over-seeding					
Fertilizer Rate					
The Engineer will require t vegetative cover, as specific covers between 50 and 75 ptemporary varieties and are	ed by the Roadside Dev percent of the ground. No not considered permane and for the site is covere	elopment Sheet for that journed crop annual species ent vegetative cover. If with permanent vegetative cover is the cover	bb (grass and/or legumes), such as rye and millet are ion, the District Roadside		
report.	pased fertilizer/lime reco	mmendation will be deve	eloped based on the soil test		
NMP.			and lime as specified in the		
at least 30 days, therefore of Regular Seeding. A maxim	over-seeding can be com num of 90 lbs/acre (2 lbs/ditional phosphorus may	pleted only when more th /1000 ft ²) of 100% water be applied unless a new	application and separated by an 30 days have passed since soluble nitrogen (WSN) may soil sample is taken and new		
	and the second s				