Nutrient Management Plan

J. Sargeant Reynolds Parham Campus Prepared For: Matthew E. Thompson Sr. 1651 E Parham Road Richmond, VA 23285-5622 804-523-5795

Prepared By: Christy F. Smith 3160 Jacobia Lane Cape Charles, VA 23310 757-678-6129 Certification Code: 297 Total Acreage: 4.20

The purpose of this Nutrient Management Plan is to ensure minimum movement of nitrogen and phosphorus from the specified area of application to surface and groundwaters where they can potentially have a detrimental effect on water quality as well as ensuring that plants have optimum soil nutrient availability for good productivity and quailty. By following this soil test based plan you are helping to protect local waters and the Chesapeake Bay.

If you have questions, please contact your plan writer, local Virginia Cooperative Extension



Nutrient Management Plan for: J. Sargeant Reynolds Parham Campus

L	andowner Information
Company Name	J. Sargeant Reynolds Parham Campus
Customer Name	Matthew E. Thompson Sr.
Mailing Address	1651 E Parham Road
City State Zip	Richmond, VA 23285-5622
Phone	804-523-5795
Email	Mthompson@reynolds.edu
	Planners Informaiton
Planner Name	Christy F. Smith
Mailing Address	3160 Jacobia Lane
City State Zip	Cape Charles, VA 23310
Phone	757-678-6129
Fax	757-331-3957
Email	christy@smithagronomic.com
Certification Code	297
	Location Information
Physical Address	1701 East Parham Road
City State Zip	Richmond, VA 23228
<u>Coordinates</u>	37.64222222
Please Use NAD 83 Deg Min Sec	77.48027778
VAHU6 Watershed Code	JL18
County	Henrico
	Square Footage
Total	183,050.00
Area 1	35,400.00
Area 2	112,000.00
Area 3	35,650.00
Area 4	Pres 4

Plan Start Date	7/1/24
Plan End Date	6/30/27
Planner Signature	Christy D. Smith

Narrative

J. Sargeant Reynolds Parham Campus is located in Richmond, VA just off I-95 at exit 83 toward Richmond. Merge onto E. Parham Road via exit 83B which brings you to the campus at 1701 E. Parham Road. The watershed code is JL18. The campus was seperated into three areas for soil testing, Campus East, West, and Middle, totaling 4.2 acres (183,050 sq ft). All buildings are extracted from the 183,050 sq ft of campus turf that is fertilized. Acreage was measured by computer. The turf type is Kentucky 31 and "contractor grass" (98% fescue) and perennial rye. Nutrient applications are usually made twice per year. Grounds maintenance is done in-house.

Campus West needs 1.5 tons/acre of lime.

J. Sargeant Reynolds agrees to comply with all requirements set forth in the Nutrient Management Training and Certification Regulations, 4VAC5-15-10 et seq,. and to follow recommendations for turf fertilization and management as described in the attached Virginia Nutrient Managemet Standards and Criteria, Revised July 2014. This includes implementing the Department of Conservation and Recreation's approved Nutrient Management Plan and maintaining fertilization records. This plan is effective for 3 years, expiring 6/30/2027 or until any major renovation or major changes to maintainance practices occur which effects the fertilized/lime areas.

Environmentally sensitive sites: There is a perennial stream that runs through the campus and to the west of the campus. All locations have sufficient buffer.

New soil's analysis required at least once every 3 years. Nutrient applications are prohibited on frozen/snow covered ground. 4VAC50-85-140.f.



4 to Brook Road & I-95

Workforce Development & Conference Center

Advancement20	0
CCWA	3
Conference Center GalleryMain Leve	el
Financial Operations20	2
Human Resources	21
Office of the President	0

Burnette Hall

Campus Cafe	. Main Leve
Campus Police	100
School of Business	112
School of Humanities & Social Sciences	220
School of Mathematics, Science & Engineering	177

Georgiadis Hall

	ocorgiaals mail	
	Registrar's Office	
	Business Office	B001
5	Campus Store	
	Student Support Services	
ľ	Advising Services	
	Financial Aid	
	Gym & Fitness Studio	B010
	Julian's Cafe	Main Level
	Math Central+	

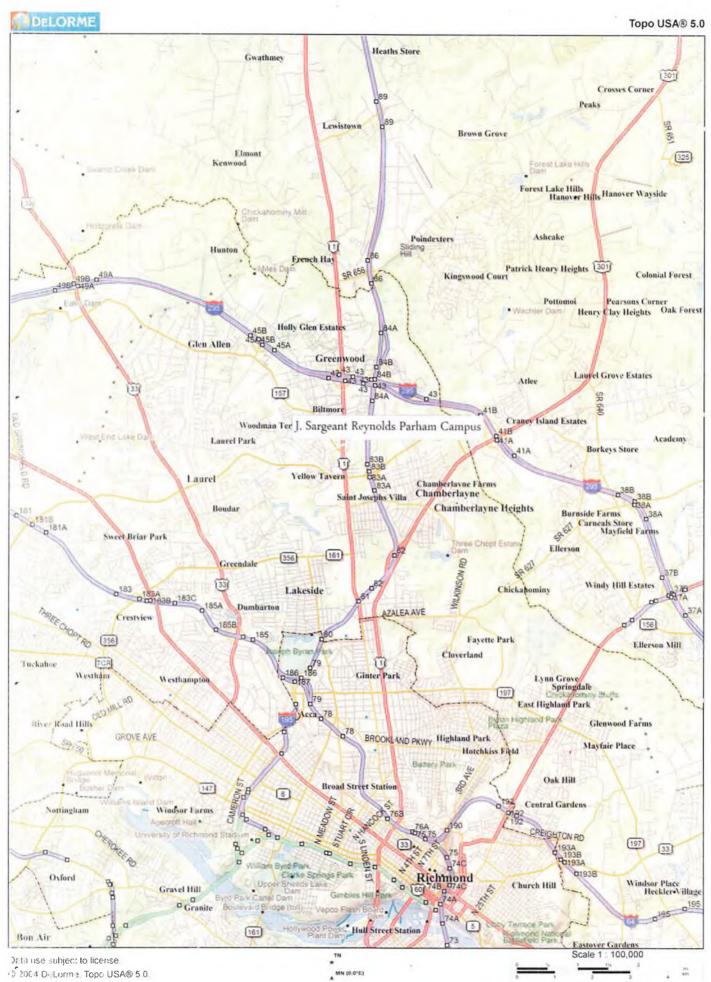
Student Accommodations	
Student LifeMezzanine	
Testing Center	
Veterans Resource Center	

🗠 🏠 Welcome Center

Admissions and Campus Tours

Massey Library

recimology center
Library103
Lipman Auditorium108
Meeting Room138
Tutoring Services B05



www.uelo.me.com

1" = 1.58 mi Data Zoom 11-0

NAME:		M	atthe	NE	Thom	pson Sr.			Mana	dem	ent Area:		Parhan	n Campus	Fast	
Prepared:			attino		/1/24				Aroa							
Expires:			30/27				(sq ft):	35400		Species:	Kentucky 31, Contr. Mix, per. Ry					
Total Nutrient Needs	Application Month/Day		alysi	5	# of Apps	Application Interval	Fertilizer Type	Fertilizer Description	Rate per 1000ft ²	lbs or oz	%Slow Release N	Total NF Ibs/1000	ft ²	Gypsum	Lime	Total Product per App. (lbs or oz
Nitrogen		N -	Ρ-	K								$N - P_2O_5$	- K ₂ O			
1.4	September 15	20 -	14 -	14	1	> 30 days		granular	3.50	lbs	0%	0.70 - 0.49	- 0.49			124
Phosphorus	October 15	20 -	14 -	14	1	> 30 days		granular	3.50	lbs	0%	0.70 - 0.49	- 0.49			124
1	1	-	-									0.00 - 0.00	- 0.00			0
Potassium		-										0.00 - 0.00				0
1		-										0.00 - 0.00	- 0.00			0
		-										0.00 - 0.00				0
		-										0.00 - 0.00				0
		-										0.00 - 0.00				0
		-	-									0.00 - 0.00				0
		-	-									0.00 - 0.00				0
		-						-				0.00 - 0.00	- 0.00			0
		-	-									0.00 - 0.00				0
		-	-						1			0.00 - 0.00	- 0.00			0
		-	-									0.00 - 0.00	- 0.00			0
		-	-									0.00 - 0.00				0
		-	-									0.00 - 0.00				0
		-	-									0.00 - 0.00	- 0.00			0
		-	-		-							0.00 - 0.00				0
		-	-									0.00 - 0.00				0
		-	-									0.00 - 0.00				0
									Total			1.40 - 0.98				
						N Reco	nmendatio	n Range and		Rati		1.4 1	1			
Notes:																

NAME:			flaffh.		Thom	pson Sr.		olication V					Darham	Campus	Middle	
Prepared:			naum	_	7/1/24	pson 31.			Management Area:			Parham Campus Middle				
Expires:			30/27				(sq ft):	35650		Species:	Kentucky 31, Contr. Mix, per. Rye					
Total Nutrient Needs	Application Month/Day	A	nalys		# of Apps	Application Interval	Fertilizer Type	Fertilizer Description		lbs or oz		Total NF Ibs/1000		Gypsum	Lime	Total Product per App. (lbs or oz)
Nitrogen		N	- P	- K								$N - P_2O_5$	- K ₂ O			
1.4	September 15	20	- 10	- 10	1	> 30 days		granular	3.50	lbs	0%	0.70 - 0.35	- 0.35			125
Phosphorus	October 15					> 30 days		granular	3.50	lbs	0%	0.70 - 0.35	- 0.35			125
.75	1		-	-								0.00 - 0.00				0
Potassium			-	-								0.00 - 0.00	- 0.00			0
.75			-	-								0.00 - 0.00	- 0.00			0
			-	-								0.00 - 0.00	- 0.00			0
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Notes:																

NAME:		Matt	how E	Thom	pson Sr.		plication V			ent Area:		Ca	impus We	st		
Prepared:		Widtt		/1/24	paon 51.	- 1 - 1		Area								
Expires: Total Nutrient Needs				/30/27				(sq ft):	112000		Species:	Kent	tucky 31, contr. mix, per. rye			
	Application Month/Day	Analy	/sis	# of Apps	Application Interval	Fertilizer Type	Fertilizer Description	Rate per 1000ft ²	lbs or oz	%Slow Release N	Total NPI Ibs/1000ff	t ²	Gypsum	Lime	Total Product per App. (lbs or oz)	
Nitrogen		N - P	- K								N - P ₂ O ₅ -	K ₂ O		1.5 T/ac		
1.4	September 15	20 - 21	- 14	1	>30 days		granular	3.50	lbs	0%	0.70 - 0.74 -	0.49			392	
Phosphorus	October 15		- 14	1	>30 days		granular	3.50	lbs	0%	0.70 - 0.74 -	0.49			392	
1.5		-	-								0.00 - 0.00 -	0.00			0	
Potassium		-	-							(0.00 - 0.00 -	0.00			0	
1		-	-								0.00 - 0.00 -	0.00			0	
		-	-								0.00 - 0.00 -	0.00			0	
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					N Reco	mmendatio	n Range and	Soil Test	Rati	inas	1.4 1.5	1				
Notes:							cre of lime is re									

Customer Name:	•				Matt	hew E. Thor	npson Sr.	
Testing Lab:			· · · · ·			Virginia Te	ch	
Sample Date:						6/27/202		
Planner Name						Christy F. Sn	nith	
Certification Number				× _		297		
Managed	AREA	Soil	Buffer	Lab Test	VT	Lab Test	VT	Species
Area ID	(sq ft)	pH	рН	Р	(H/M/L)	К	(H/M/L)	
Parham Campus East	35,400	6.1	6.26	33	M+	209	H-	Kentucky 31, contractor mix, perennial ry
Parham Campus West	112,000	5.7	6.19	21	М	174	M+	Kentucky 31, contractor mix, perennial ry
Parham Campus Middle	35,650	6.4	6.39	64	н	244	Н	Kentucky 31, contractor mix, perennial ry
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Virginia Cooperative Extension Soil Test Report

Questions? Contact: Henrico County Office 8600 Dixon Powers Drive P O Box 90775 Richmond, VA 23273-0775 804-501-5160 Virginia Tech Soil Testing Laboratory 145 Smyth Hall (0465) 185 Ag Quad Ln Blacksburg, VA 24061 www.soiltest.vt.edu

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at	www.soiltest.vt.edu under Report Notes

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N	3160 JACOBIA LANE	P
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	CAPE CHARLES, VA 23310	

				SA	MPLE	HISTOR	Y						
Sample	Field		LAST CROP		OP LAST LIME APPLICATION				SOIL INFORMATION				
ID	ID		Name	Yiel	la	Months Prev.	Т	ons/Acre	SMU-1 %	SMU-2 %	SMU-3 %	Yield Estimate	Productivity Group
PARM	PARHAM												III
				LAB TES	T RES	ULTS (see	Note 1)	1					
Analysis	s P (lb/A)	K (lb/A)	Ca (lb/A)	Mg (lb/A)	Zn	(ppm)	Mn (p	pm) (Cu (ppm)	Fe (pp	m) B	(ppm)	S.Salts (ppm)
Result	21	174	1568	294	4	1.4	13.	3	0.2	12.	5	0.3	
Rating	M	M+	H-	VH	S	UFF	SUF	F	SUFF	SUF	?	SUFF	
Analysis	Soil s pH	Buffer Index	EstCE0 (meq/100		•	Base (%		Ca Sa (%)		Mg Sat. (%)		Sat. %)	Organic Matter (%)
Result	5.7	6.19	6.6	18.	9	81	.1	59.	4	18.4	3	.4	

FERTILIZER AND LIMESTONE RECOMMENDATIONS

Crop: Native or Unimproved Pasture (42)

Lime, T	ONS/AC		Fertilizer, lb/A	
Amount	Туре	N	P205	K20
1.5	AG	See	80	40
		Comment		

825. If stand contains less than 25 percent clover, apply 40-60 lbs N/A.

131. If additional production is needed later on, apply 40 to 60 lbs/A of N during the grazing season. If you are planning to overseed a legume into the stand, omit the N recommendation.

123. P2O5 and K2O recommendations are for single applications made every 3 to 4 years. After this time, soils should be re-tested.

991. "Explanation of Soil Tests, Note 1" and other referenced notes are viewable at www.soiltest.vt.edu under Report Notes.

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at	t www.soiltest.vt.ed	u under Report Notes

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N	3160 JACOBIA LANE	P
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	CAPE CHARLES, VA 23310	

				SA	MPLE	<u>HISTOR</u>	Y						
Sample	Field	LAST CROP		LAST CROP LAST LIME APPLICATION			SOIL INFORMATION						
ID	ID		Name	Yiel	d	Months Prev.	Т	ons/Acre	SMU-1 %	SMU-2 %	SMU-3 %	Yield Estimate	Productivity Group
PAR M	PARHAM												III
				LAB TES	T RES	SULTS (see	Note 1)						
Analysis	P (lb/A)	K (lb/A)	Ca (lb/A)	Mg (lb/A)	Zn	(ppm)	Mn (p	pm) (Cu (ppm)	Fe (pp	n) B	(ppm)	S.Salts (ppm)
Result	64	244	2632	184		4.8	15.	8	0.4	25.	5	0.5	
Rating	н	H	VH	H	S	UFF	SUF	F	SUFF	SUF	7 I	SUFF	
Analysis	Soil pH	Buffer Index	EstCE (meq/100		•	Base (%		Ca Sa (%)		Mg Sat. (%)		Sat. %)	Organic Matter (%)
Result	6.4	6.39	7.7	0.	8	99	.2	85.	3	9.8	4	.1	

FERTILIZER AND LIMESTONE RECOMMENDATIONS

Crop: Native or Unimproved Pasture (42)

Lime, T	ONS/AC		Fertilizer, lb/A	
Amount	Туре] N	P205	K20
0		See	0	0
		Comment	1	

825. If stand contains less than 25 percent clover, apply 40-60 lbs N/A.

131. If additional production is needed later on, apply 40 to 60 lbs/A of N during the grazing season. If you are planning to overseed a legume into the stand, omit the N recommendation.

123. P2O5 and K2O recommendations are for single applications made every 3 to 4 years. After this time, soils should be re-tested.

991. "Explanation of Soil Tests, Note 1" and other referenced notes are viewable at www.soiltest.vt.edu under Report Notes.

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Group

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Virginia Cooperative Extension Soil Test Report

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Virginia Tech Soil Testing Laboratory 145 Smyth Hall (0465) 185 Ag Quad Ln Blacksburg, VA 24061 www.soiltest.vt.edu

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SEE NOTES:

1 3 at www.soiltest.vt.edu under Report Notes

	LAG AND JACOBIA	ENVIRONMENTAL LANE	INC
CAPE	CHARLES	5, VA 23310	

SAMPLE HISTORY LAST LIME LAST CROP SOIL INFORMATION Sample Field APPLICATION Months SMU-1 SMU-2 SMU-3 Yield ID ID Name Yield Tons/Acre Prev. % % % Estimate PAR E PARHAM LAB TEST RESULTS (see Note 1) Analysis P (Ib/A) K (lb/A) Ca (lb/A) Mg (lb/A) Za (ppm) S.Salts (ppm) Mn (ppm) Cu (ppm) Fe (ppm) B (ppm) Result 209 33 2016 238 11.5 12.5 0.9 24.4 0.3 Rating M+ H-H+ VH SUFF SUFF SUFF SUFF SUFF Soil Buffor Fet -CEC T Acidity Т Done Sat I Co Set Т Masat Т V Sat Т

Analysis	рН	Index	(meq/100g)	(%)	Dase Sal. (%)	(%)	Mg Sat. (%)	K Sal. (%)	Matter (%)	1
Result	6.1	6.26	7.1	11.7	88.3	70.8	13.8	3.8		I

FERTILIZER AND LIMESTONE RECOMMENDATIONS

Crop: Native or Unimproved Pasture (42)

Lime, T	ONS/AC		Fertilizer, lb/A				
Amount	Туре	N	P205	K20			
0		See	See 40 0				
		Comment					

825. If stand contains less than 25 percent clover, apply 40-60 lbs N/A.

131. If additional production is needed later on, apply 40 to 60 lbs/A of N during the grazing season. If you are planning to overseed a legume into the stand, omit the N recommendation.

123. P2O5 and K2O recommendations are for single applications made every 3 to 4 years. After this time, soils should be re-tested.

991. "Explanation of Soil Tests, Note 1" and other referenced notes are viewable at www.soiltest.vt.edu under Report Notes.

Standards and Criteria

Section VI. Turfgrass Nutrient Recommendations for Home Lawns, Office Parks, Public Lands and Other Similar Residential/Commercial Grounds

Definitions

For the purposes of this section, the following definitions, as presented by the Association of American Plant Food Control Officials (AAPFCO), apply:

"Enhanced efficiency fertilizer" describes fertilizer products with characteristics that allow increased plant nutrient availability and reduce the potential of nutrient losses to the environment when compared to an appropriate reference product.

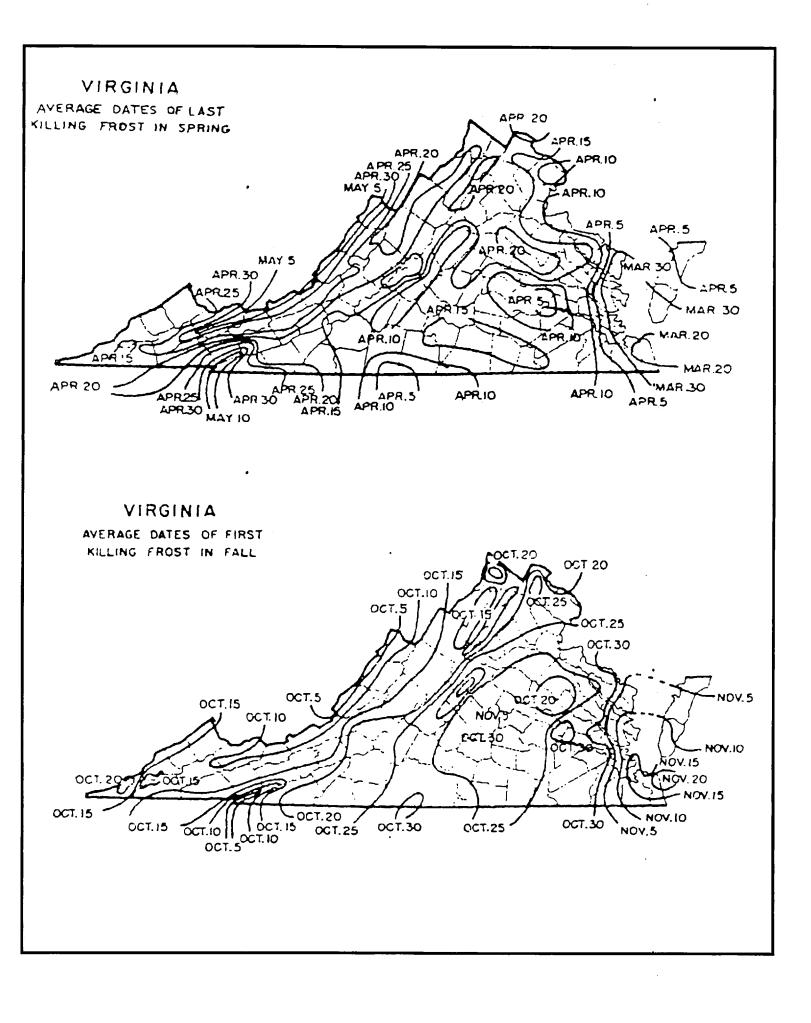
"Slow or controlled release fertilizer" means a fertilizer containing a plant nutrient in a form which delays its availability for plant uptake and use after application, or which extends its availability to the plant significantly longer than a reference "rapidly available nutrient fertilizer" such as ammonium nitrate, urea, ammonium phosphate or potassium chloride. A slow or controlled release fertilizer must contain a minimum of 15 percent slowly available forms of nitrogen.

"Water soluble nitrogen", "WSN" and "readily available nitrogen" means: Water soluble nitrogen in either ammonical, urea, or nitrate form that does not have a controlled release, or slow response.

Recommended Season of Application For Nitrogen Fertilizers - Applies to all Turf

A nitrogen fertilization schedule weighted toward fall application is recommended and preferred for agronomic quality and persistence of cool season turfgrass; however, the acceptable window of applications is much wider than this for nutrient management. The nutrient management recommended application season for nitrogen fertilizers to cool season turfgrasses begins six weeks prior to the last spring average killing frost date and ends six weeks past the first fall average killing frost date (see Figures 6-1 & 6-2). Applications of nitrogen during the intervening late fall and winter period should be avoided due to higher potential leaching or runoff risk, but where necessary, apply no more than 0.5 pounds per 1,000 ft² of water soluble nitrogen within a 30 day period. Higher application rates may be used during this late fall and winter period by using materials containing slowly available sources of nitrogen, if the water soluble nitrogen contained in the fertilizer does not exceed the recommended maximum of 0.5 pounds per 1,000 ft² rate. Do not apply nitrogen or phosphorus fertilizers when the ground is frozen.

The acceptable nitrogen fertilizer application season for non-overseeded warm season turfgrass begins no earlier than the last spring average killing frost date and ends no later than one month prior to the first fall average killing frost date (see Figures 6-1 & 6-2).



Per Application Rates

Do not apply more than 0.7 pounds of water soluble nitrogen per 1,000 ft² within a 30 day period. For cool season grasses, do not apply more than 0.9 pounds of total nitrogen per 1,000 ft² within a 30 day period. For warm season grasses, do not apply more than 1.0 pounds of total nitrogen per 1,000 ft² within a 30 day period. Lower per application rates of water soluble nitrogen sources or use of slowly available nitrogen sources should be utilized on very permeable sandy soils, shallow soils over fractured bedrock, or areas near water wells.

Annual Application Rates for Home Lawns and Commercial Turf

Up to 3.5 pounds per 1,000 ft² of nitrogen may be applied annually to cool season grass species or up to 4 pounds per 1,000 ft² may be applied annually to warm season grass species using 100 percent water soluble nitrogen sources. Lower rates of nitrogen application may be desirable on those mature stands of grasses that require less nitrogen for long-term quality. As a result, lower application rates will probably be more suited to the fine leaf fescues (hard fescue, chewings fescue, creeping red fescue, and sheep fescue) and non-overseeded zoysiagrass. Lower rates should also be used on less intensively managed areas.

Use of Slowly Available Forms of Nitrogen

For slow or controlled release fertilizer sources, or enhanced efficiency fertilizer sources, no more than 0.9 pounds of nitrogen per 1,000 ft² may be applied to cool season grasses within a 30 day period and no more than 1.0 pounds of nitrogen per 1,000 ft² may be applied to warm season grasses within a 30 day period. Provided the fertilizer label guarantees that the product can be used in such a way that it will not release more than 0.7 pounds of nitrogen per 1,000 ft² in a 30 day period, no more than 2.5 pounds of nitrogen per 1,000 ft² in a 30 day period, no more than 2.5 pounds of nitrogen per 1,000 ft² and be applied in a single application. Additionally, total annual applications shall not exceed 80 percent of the annual nitrogen rates for cool or warm season grasses.

Phosphorus and Potassium Nutrient Needs (Established Turf)

Apply phosphorus (P_2O_5) and potassium (K_2O) fertilizers as indicated necessary by a soil test using the following guidelines:

<u>Soil Test Level</u>	Nutrient Needs (lbs /1000 ft ^{2) *}				
	P ₂ O ₅	K ₂ O			
L	2-3	2-3			
Μ	1-2	1-2			
Н	0.5-1	0.5-1			
VH	0	0			

For the lower soil test level within a rating, use the higher side of the range and for higher soil test level within a rating use the lower side of the recommendation range. (For example the recommendation for a P₂O₅ soil test level of L- would be 3 pounds per 1,000 ft².)

Do not use high phosphorus ratio fertilizers such as 10-10-10 or 5-10-10, unless soil tests indicate phosphorus availability below the M+ level.

Recommendations for Establishment of Turf

These recommendations are for timely planted turfgrass, that is, the seed or vegetative material (sod, plugs, and /or sprigs), are planted at a time of the year when temperatures and moisture are adequate to maximize turfgrass establishment. These recommended establishment periods would be late summer to early fall for cool-season turfgrasses and late spring through mid-summer for warm-season turfgrasses.

Nitrogen Applications

At the time of establishment, apply no more than 0.9 pounds per 1,000 ft² of total nitrogen for cool season grasses or 1.0 pounds per 1,000 ft² of total nitrogen for warm season grasses, using a material containing slowly available forms of nitrogen, followed by one or two applications beginning 30 days after planting, not to exceed a total of 1.8 pounds per 1,000 ft² total for cool season grasses and 2.0 pounds per 1,000 ft² for warm season grasses for the establishment period. Applications of WSN cannot exceed more than 0.7 pounds per 1,000 ft² within a 30 day period.

Phosphorus and Potassium Recommendations for Establishment

Soil Test Level	Nutrient Needs (lbs /1000 ft ²⁾ *				
	P ₂ O ₅	K₂O			
L	3-4	2-3			
Μ	2-3	1-2			
Н	2-1	0.5-1			
VH	0	0			

* For the lower soil test level within a rating, use the higher side of the range and for higher soil test level within a rating use the lower side of the recommendation range.

Fertilizer Application Records											
Customer Information						Management Area Information					
Name:	Matthew E. Thompson Sr.					Management Area ID:					
Address:	1701 East Parham Road				Management Area Size:						
	Richmond, VA 23228				Plant Species:						
Phone #:	804-523	8-5795			Notes:						
Date	Supervisor/Applicator	Weather Conditions			Fertilize	zer	er Rate	Am	ount	Application	
(M/D/Y)		Temp	Wind Speed	Precip	Analy	sis	Nate	Fertilizer Used		Equipment Used	
										_	
		iation on c	was the last tin alibration see C or download at	Chapter 10 o	f the "Urban	Nutrie	ent Manag	ement Hand	lbook".		