Matthew S. Wells *Director*

Andrew W. Smith Chief Deputy Director



COMMONWEALTH of VIRGINIA

DEPARTMENT OF CONSERVATION AND RECREATION

March 20, 2024

Date Received by DCR 3/14/2024

John W. Mason Virginia Peninsula Community College-Hampton Campus 99 Thomas Nelson Drive Hampton VA 23670 Frank N. Stovall Deputy Director for Operations

Darryl Glover
Deputy Director for
Dam Safety,
Floodplain Management and
Soil and Water Conservation

Laura Ellis
Deputy Director for
Administration and Finance

Your nutrient management plan (NMP) dated 3/14/2024 located in City of Hampton has been approved by the Virginia Department of Conservation and Recreation (DCR). The approved plan is for 23.3 acres. Only nutrient recommendations for applications to be made after the date of this letter are approved by this letter. Your NMP was written by Christy Smith, a nutrient management planner certified by DCR.

This site has not been inspected by DCR and this approval is contingent upon site conditions being as stated in the NMP. Any revisions to this plan must be approved by DCR. Any change in personnel resulting in a change to the plan manager should be reported to the Certified Nutrient Management Planner who will then make DCR aware. Please note that this letter should be kept with the NMP and supporting documentation including nutrient application records. This plan expires on 3/13/2027. Please feel free to contact me with any questions or concerns regarding this approval.

Best regards,

Into V Tutto

Anita Tuttle

Urban Nutrient Management Coordinator Division of Soil and Water Conservation 600 East Main Street, 24th Floor Richmond VA 23219 (804) 513-5958

Nutrient Management Plan

Virginia Peninsula CC/Hampton Campus
Prepared For:

John W. Mason 99 Thomas Nelson Drive Hampton, VA 23670 757-825-3694

Prepared By:

Christy F. Smith 3160 Jacobia Lane Cape Charles, VA 23310 757-678-6129

Certification Code: 297

Total Acreage: 23.3 acres

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: Virginia Peninsula CC/Hampton Campus

	Landowner Information								
Company Name	Virginia Peninsula CC/Hampton Campus								
Customer Name	John W. Mason								
Mailing Address	99 Thomas Nelson Drive								
City State Zip	Hampton, VA 23670								
Phone	757-825-3694								
Email	MasonJ@vpcc.edu								

	Planners Information								
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	99 Thomas Nelson Drive								
City State Zip	Hampton, VA 23670								
Coordinates	37.063228								
Please Use NAD 83 Deg Min Sec	-76.422549								
VAHU6 Watershed Code	CB23								
County	Hampton								

Square Footage						
Total	1,014,948 sq ft/23.3 acres					
Area 1	574,992 sq ft					
Area 2	439,956 sq ft					
Area 3						
Area 4						

Plan Start Date	3/14/24	
Plan End Date	3/13/27	
Planner Signature	Christian 2. Smith	

Narrative

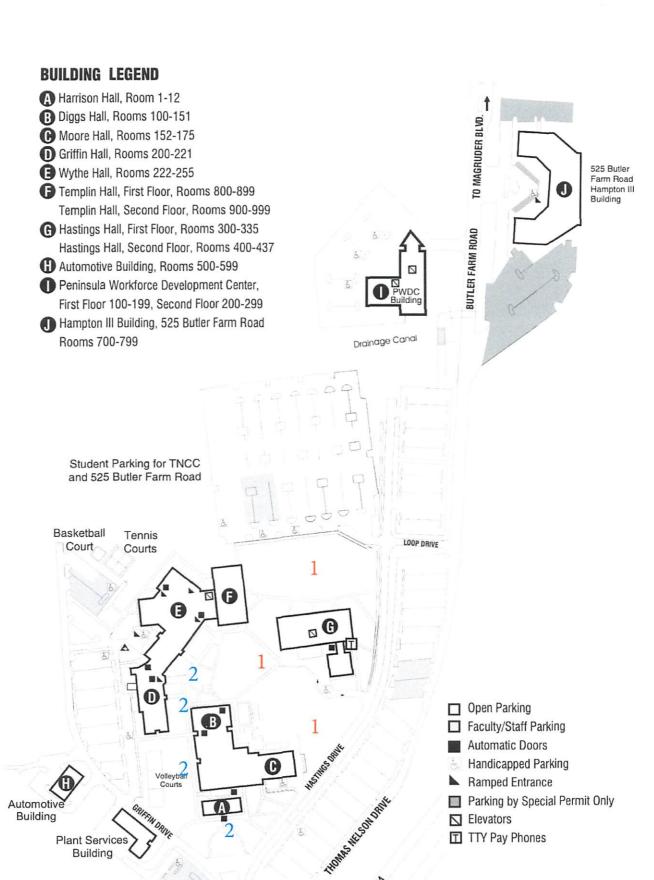
Virginia Peninsula Community College/Hampton is located on Thomas Nelson Drive north of I-64, near Big Bethel Road in Hampton. The site is seeded with fescue.

Currently 23.3 acres of turfgrass (1,014,948 square feet) receive nutrient applications. The acreage was measured by laser. The campus soil sample 1 showed low pH and 2 tons of lime is recommended. The agency must not apply nutrients at higher rates or more frequently than specified in the nutrient management plan.

There are no environmentally sensitive sites located on campus.

Nutrient Applications are prohibited on frozen/snow covered ground.

Virginia Peninsula Community College 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. Soil testing is needed at least once every 3 years. This plan is effective for 3 years, expiring 3/13/2027 or until any major renovation or major changes to maintenance practices occur which effects the fertilized/lime areas.

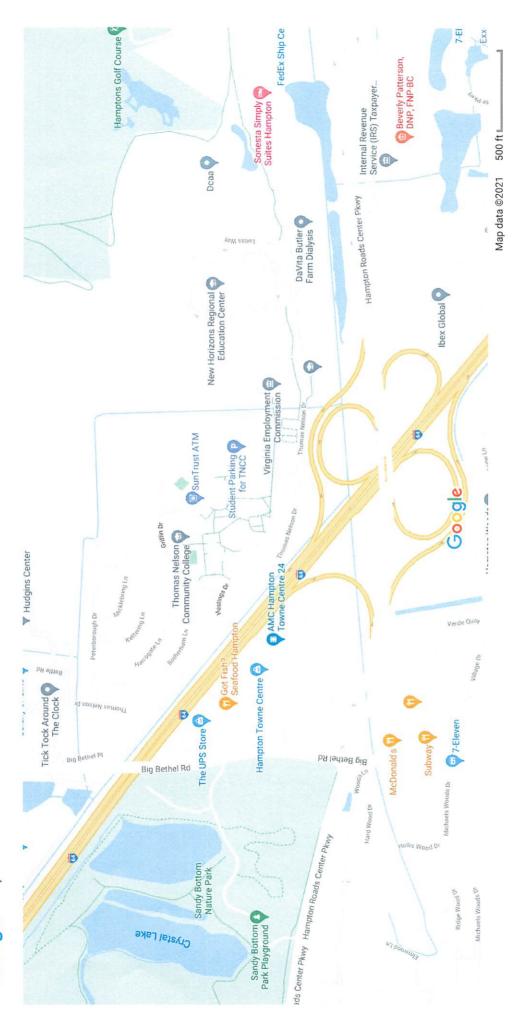


AASTINGS DRIVE

Faculty, Staff and Visitors Parking

Google Maps

Google Maps



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Prepared: Expires:				3	14/24 13/27	,011 			Area (sq ft):	574992		Species:	fe	escue		
Total Nutrient Needs	nt Application Application # of Application Fertilizer Fertilizer Rate Ibs %Slow T		Total NP		Gypsum	Lime	Total Product per App. (lbs or oz)									
Nitrogen		N -	Р -	K								N - P ₂ O ₅	- K ₂ O		2T/acre	
2	4/1	20 -	15 -	15	1	30 days	dry	granular	3.50	lbs	0%	0.70 - 0.53	- 0.53			2012
Phosphorus	9/1		- 15 -		1	30 days	dry	granular	3.50	lbs	0%	0.70 - 0.53	- 0.53			2012
1.5	10/1	17 -	12 -	12	1	30 days	dry	granular	3.50	lbs	0%	0.60 - 0.42	- 0.42			2012
Potassium		-										0.00 - 0.00	- 0.00			0
1.5		-										0.00 - 0.00	- 0.00			0
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								go and						ı,		

NAME:		Jo	n W. Ma	son			Mana	gem	ent Area:	2				
Prepared: Expires:			3/14/24 3/13/27				Area (sq ft):	439956		Species:		fe	scue	
Total Nutrient Needs	Application Month/Day	Analysis	# 05	Application Interval	Fertilizer Type	Fertilizer Description	Rate per 1000ft ²	lbs or oz	%Slow Release N	Total NP lbs/1000f		Gypsum	Lime	Total Product per App. (lbs or oz
Nitrogen		N - P -	K							N - P ₂ O ₅ -	- K ₂ O			
2	4/1	20 - 5 -	10 1	30 days	dry	granular	3.50	lbs	0%	0.70 - 0.18 -	- 0.35			1540
Phosphorus	9/1	20 - 5 -	10 1	30 days	dry	granular	3.50	lbs	0%	0.70 - 0.18 -	- 0.35			1540
.5	10/1	17 - 4 -	8 1	30 days	dry	granular	3.50	lbs	0%	0.60 - 0.14 -	- 0.28			1540
Potassium										0.00 - 0.00 -				0
1										0.00 - 0.00 -	- 0.00			0
-										0.00 - 0.00 -	- 0.00			0
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							Total	RILL	######	2.00 - 0.49 -	- 0.98			
				N Reco	mmendatio	n Range and	Soil Test	Rati	ings	2 0.5	1			

				\$	Soil Tes	t Sumr	nary		
Custo	omer Name:						John W. Ma	son	
Te	sting Lab:				-		Virginia Te	ch	
	mple Date:						3/11/202	4	
Plai	nner Name						Christy F. Sn	nith	
Certific	cation Number						297		
							* .		
V	∕lanaged	AREA	Soil	Buffer	Lab Test	VT	Lab Test	VT	Species
	Area ID	(sq ft)	pН	pН	Р	(H/M/L)	K	(H/M/L)	
	1	574,992	5.3	5.84	13	M-	116	M	fescue
	2	439,956	6.3	6.26	110	H+	186	H-	fescue
	-	1							
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		1							
							-		
		1							
Notes:					tons/acre li	me is recom	mended for	Area 1.	

Virginia Cooperative Extension Soil Test Report

Questions? Contact: Roanoke Office 3738 Brambleton Ave., S.W. Roanoke, VA 24018-3639 540-772-7524 Virginia Tech Soil Testing Laboratory 145 Smyth Hall (0465) 185 Ag Quad Ln Blacksburg, VA 24061 www.soiltest.vt.edu

SE	E NOTES:		
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O W SMITHAG AND ENVIRONMENTAL C F O O O N 3160 JACOBIA LN P R Y

CAPE CHARLES, VA 23310

SAMPLE HISTORY

Sample	Field	LAST CROP		T LIME ICATION	SOIL INFORMATION					
ID	ID	Name	Yield	Months Prev.	Tons/Acre	SMU-1 %	SMU-2 %	SMU-3 %	Yield Estimate	Productivity Group
HAMP1	HAMPTON									III

LAB TEST RESULTS (see Note 1)

Analysis	P (lb/A)	K (lb/A)	Ca (lb/A)	Mg (lb/A)	Zn (ppm)	Mn (ppm)	Cu (ppm)	Fe (ppm)	B (ppm)	S.Salts (ppm)
Result	13	116	1016	266	3.4	5.0	0.2	57.2	0.2	
Rating	M-	M	M	VH	SUFF	SUFF	SUFF	SUFF	SUFF	

Analysis	Soil	Buffer	EstCEC	Acidity	Base Sat.	Ca Sat.	Mg Sat.	K Sat.	Organic
	pH	Index	(meq/100g)	(%)	(%)	(%)	(%)	(%)	Matter (%)
Result	5.3	5.84	7.1	46.8	53.2	35.7	15.4	2.1	

FERTILIZER AND LIMESTONE RECOMMENDATIONS

Crop: Native or Unimproved Pasture (42)

Lime, TONS/AC						
Amount Type						
3.75	AG					

Fertilizer, lb/A								
N	P205	K20						
See	90	80						
Comment								

- 635. No further crop response is expected when applying more than 2 to 3 T/A of lime in one application. Therefore, apply half of the total lime now, and the remainder in 6 to 12 months.
- 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.

Virginia Cooperative Extension Soil Test Report

Questions? Contact: Roanoke Office 3738 Brambleton Ave., S.W. Roanoke, VA 24018-3639 540-772-7524 Virginia Tech Soil Testing Laboratory 145 Smyth Hall (0465) 185 Ag Quad Ln Blacksburg, VA 24061 www.soiltest.vt.edu

SEE	NOTES:
1	3
at u	www.coiltest.vt.edu.under Report Notes

O SMITHAG AND ENVIRONMENTAL C F O O O N 3160 JACOBIA LN P R Y

CAPE CHARLES, VA 23310

SAMPLE HISTORY

Sample	Field LAST CROP			T LIME ICATION	SOIL INFORMATION					
ID	ID	Name	Yield	Months Prev.	Tons/Acre	SMU-1 %	SMU-2 %	SMU-3 %	Yield Estimate	Productivity Group
HAMP2	HAMPTON				, =-					III

LAB TEST RESULTS (see Note 1)

Analysis	P (lb/A)	K (lb/A)	Ca (lb/A)	Mg (lb/A)	Zn (ppm)	Mn (ppm)	Cu (ppm)	Fe (ppm)	B (ppm)	S.Salts (ppm)
Result	110	186	2176	335	2.7	5.7	0.3	82.4	0.3	
Rating	H+	H-	VH	VH	SUFF	SUFF	SUFF	SUFF	SUFF	

Analysis	Soil	Buffer	EstCEC	Acidity	Base Sat.	Ca Sat.	Mg Sat.	K Sat.	Organic
	pH	Index	(meq/100g)	(%)	(%)	(%)	(%)	(%)	Matter (%)
Result	6.3	6.26	7.9	10.6	89.5	68.9	17.5	3.0	

FERTILIZER AND LIMESTONE RECOMMENDATIONS

Crop: Native or Unimproved Pasture (42)

Lime, TONS/AC							
Amount	Type						
0							

Fertilizer, lb/A							
N	P205	K20					
See	0	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.

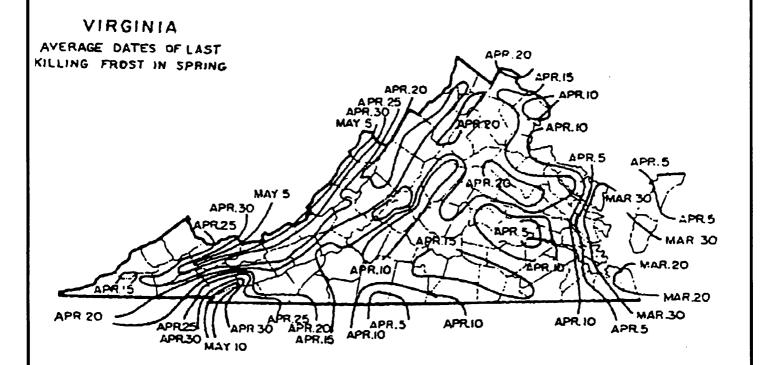
"Slow or controlled release fertilizer" means a fertilizer containing a plant nutrient in a form which delays its availability for plant uptake and use after application, or which extends its availability to the plant significantly longer than a reference "rapidly available nutrient fertilizer" such 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.

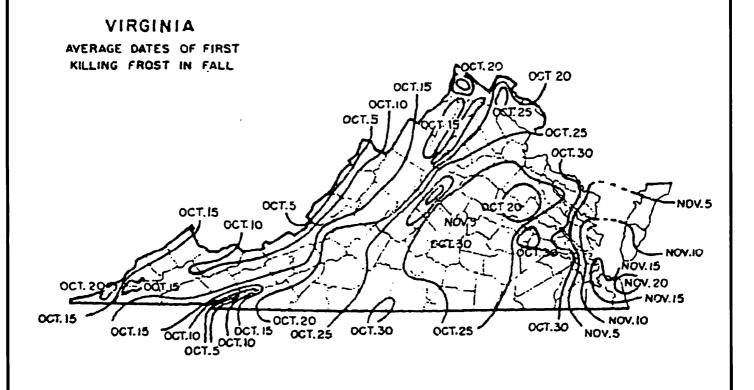
"Water soluble nitrogen", "WSN" and "readily available nitrogen" means: Water soluble nitrogen in either ammonical, urea, or nitrate form that does not have a controlled release, or slow response.

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 may 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:

Soil Test Level	Nutrient Needs (lbs /1000 ft ²⁾ *					
	P ₂ O ₅	K₂O				
L	2-3	2-3				
М	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 P_2O_5 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				
M	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:	John W. Mason					agen	ent Are	ea ID:		
Address:	99 Thomas No	elson D	rive		Mana	gem	ent Are	a Size:	· -	
	Hampton, V	'A 236	70		Р	lant	Species	s:		
					Notes:					
Phone #:	757-825	-3694			notes:					
Date	Supervisor/Applicator	We	ather Cond	litions	Fertiliz	er	Rate	Am	ount	Application
(M/D/Y)	Supervisor/Applicator	Temp	Wind Speed	Precip	Analys	sis	nate	Fertilizer Used		Equipment Used

When was the last time your fertilizer equipment was calibrated???

For information on calibration see Chapter 10 of the "Urban Nutrient Management Handbook".

Available for download at http://pubs.ext.vt.edu/430/430-350/430-350.html