

Accredited Tree Care by Certified Arborists

Malik Drayton City of Somerville 93 Highland Ave Somerville, MA 02145 Home: Mobile: Office: 617-625-6600 e-mail: <u>Cmiller@Somervillema.gov</u> Alt e-mail: <u>Jhoward@somervillema.gov</u>

Job Site: 18 Malik Drayton IFB 23-26 Parks Tree Health Program City Hall and High School Somerville, MA 02143

Phone: Email: Alt Phone:

Tree and Shrub Care Recommendations on 1/31/2023 Description of Services

- Work Plan for City Hall/High School Pruning/Removal and Soil Work April 17-19 2023

- This work will require temporarily closing some sidewalk areas, parking spaces, and monuments while work is being done on the trees directly over them. See attached map for parking restrictions. Work to be performed during school vacation to minimize foot and vehicle traffic impacted.
- Pruning on 53 Mature shade and ornamental trees throughout the park. Individual tree specs listed on the attached spreadsheet.

Structural Pruning - Selective pruning to improve branch architecture; select, develop and maintain strong, properly spaced scaffold branches by reducing or removing interfering, overextended, defective and poorly attached limbs as specified

Canopy Cleaning - Selective pruning to remove declining, dead and broken branches as specified

Canopy Raising - Selective pruning to provide and envelope of clearance of walkways, roadways, utilities, structures, as specified.

- Select Trees along Highland

Root Pruning: prune visible girdling roots smaller than 1" in diameter, etc.



This proposal is valid for 45 days, assuming there are no changes to the site (driveway, plantings, buildings etc. remain unchanged). All work performed in accordance with ANSI A300 Standards.



Payment due upon completion of work. 1 ½% per month, 18% per year on unpaid balances.

Barrett Tree Service East, Inc. 340 Middlesex Ave, Medford, MA 02155 617-616-5281 www.BarrettTreeEast.com

February 15, 2023 Proposal #: 65981 - Select trees along Highland Bio-stimulant Application - Early season. Treat soils within the critical root zone (typically within the dripline) with an organic liquid blend of humic acids, kelp extract and natural compounds to enhance soil structure, microbial activity and nutrient availability. - 9" diameter Stump in front of City Hall Stump Grinding - Grind stump and exposed flare Deep below grade for replant; backfill and remove excess grinding debris. Machine will grind up to 4-6" from adjacent immobile objects. - Cable: 16.9" diameter Austrian Pine #41058 Supplemental Cable System - Install hardware with anchors to provide additional support of leader(s) utilizing drop forged closed eyebolts, washers, thimbles, dead-end grips and 1/4" EHS 7 strand galvanized wire rope. - Posting No Parking Permits. - Addtional pruning hours removing lights (if needed) - Police Detail 3 Days - **Debris Disposal:** Costs include removal and disposal of brush, logs and chipped debris generated from tree care operations.

Thank you for considering Barrett Tree Service East, Inc. Sincerely,

Alden Johnson Certified Arborist



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Site ID	Species	DBH	Park Name	TRAQ-Risk Rat Recommendations		Units	Cost
Column1	Column14	Column15	Column17	Column33	Column48	Column49	Column50
40938	stump (Stump)	5	CITY HALL	N/A	none		
40928	stump (Stump)	7	CITY HALL	N/A	none		
	stump (Stump)	4	CITY HALL	N/A	none		
41071	stump (Stump)	14	CITY HALL	N/A	none		
41063	stump (Stump)	15	CITY HALL	N/A	none		
41130	stump (Stump)	9	CITY HALL	N/A	Grind deep for replant		
	stump (Stump)	5	CITY HALL	N/A	none		
40974	stump (Stump)	4	CITY HALL	N/A	none		
	stump (Stump)	9	CITY HALL	N/A	none		
40947	dogwood: flowering (Cornus florida)	0.6	CITY HALL	Low	үттр		
	arborvitae: eastern (Thuja occidentalis)		CITY HALL	Low	Prune to remove dead/broken banches greater an 1" in diameter, raise 1-3' off surrounding structures.		
	arborvitae: eastern (Thuja occidentalis)		CITY HALL	Low	Prune to remove dead/broken banches greater an 1" in diameter, raise 1-3' off surrounding structures.		

	arborvitae:				Prune to remove dead/broken banches greater an		
	eastern (Thuja				1" in diameter, raise 1-3' off surrounding		
	occidentalis)	76	CITY HALL	Low	structures.	_	_
41002	occidentalisj	7.0					
	arborvitae:				Prune to remove dead/broken banches greater an		
	eastern (Thuja				1" in diameter, raise 1-3' off surrounding		
	occidentalis)	5 5	CITY HALL	Low	structures.		
	pear: callery	5.5		2010			
	(Pyrus						
	calleryana)	12 9	CITY HALL	Low	None. Gone		
		12.0					
	arborvitae:				Prune to remove dead/broken banches greater an		
	eastern (Thuja				1" in diameter, raise 1-3' off surrounding		
	occidentalis)	6.8	CITY HALL	Low	structures.		
	zelkova:				Prune to remove dead/broken banches greater an		
	Japanese				2" in diameter, raise 1-3' off surrounding		
	(Zelkova				structures and utilities, 8-10' of ground and		
41041	serrata)	16.5	CITY HALL	Low	sidewalk, 14' off of street. Lights		
	maple: red						
41042	(Acer rubrum)	11.3	CITY HALL	Low	None. Gone		
	maple: red						
41047	(Acer rubrum)	12.2	CITY HALL	Low	None. Gone		
	zelkova:				Prune to remove dead/broken banches greater an	_	
	Japanese				2" in diameter, raise 1-3' off surrounding		
	(Zelkova				structures and utilities, 8-10' of ground and		
41052	serrata)	14.7	CITY HALL	Low	sidewalk, 14' off of street. Lights		
	ash: green						
	(Fraxinus						
	pennsylvanica						
41076	,	17	CITY HALL	Low	None. Gone		
	oak: pin						
	(Quercus						
	palustris)	15.5	CITY HALL	Low	None. Gone		
	ash: green						
	(Fraxinus						
	pennsylvanica						
41093)	14	CITY HALL	Low	None. Gone		

	ash: green					
	(Fraxinus					
	pennsylvanica					
41102		12.9	CITY HALL	Low	None. Gone	
	crabapple:					-
	flowering				Prune to remove deadwood cankered and blighted	
	(Malus spp.)	5.5	CITY HALL	Low	branches greater than 2" in diameter	
					Prune to remove dead/broken banches greater an	
					2" in diameter, raise 4-6' off surrounding	
					structures and utilities, 8-10' of ground and	
	pear: callery				sidewalk, 14' off of street. Prune to limit weight	
	. , (Pyrus				and leverage over the streer thru a series of (8-10)	
	calleryana)	17	CITY HALL	Low	1-4" cuts. Lights. detail	
	, ,					
					Prune to remove dead/broken banches greater an	
	mulberry:				2" in diameter, raise 1-3' off surrounding	
	white (Morus				structures and utilities, 8-10' of ground. Prune to	
41091	alba)	8.3	CITY HALL	Low	improve structure, remove crossing limbs. Lights	
	crabapple:				Prune to remove deadwood cankered and blighted	
	flowering				branches greater than 2" in diameter, thin low	
41109	(Malus spp.)	10.2	CITY HALL	Low	waterspouts. Lights	
	zelkova:				Prune to remove dead/broken banches greater an	••••••••••••••••••••••••••••••••••••••
	Japanese				2" in diameter, raise 1-3' off surrounding	
	(Zelkova				structures and utilities, 8-10' of ground and	
40958	serrata)	17.3	CITY HALL	Low	sidewalk, 14' off of street. Lights	
	crabapple:				Prune to remove deadwood cankered and blighted	
	flowering				branches greater than 2" in diameter, thin low	
41120	(Malus spp.)	9.1	CITY HALL	Low	waterspouts. Lights	
	crabapple:					
	flowering				Prune to remove deadwood cankered and blighted	
41112	(Malus spp.)	10.4	CITY HALL	Low	branches greater than 2" in diameter	
	crabapple:				Prune to remove deadwood cankered and blighted	
	flowering				branches greater than 2" in diameter, thin low	
41101	(Malus spp.)	8.8	CITY HALL	Low	waterspouts. Lights	
					Prune to remove dead/broken banches greater an	
					2" in diameter, raise 4-6' off surrounding	
					structures and utilities, 8-10' of ground and	
	pear: callery				sidewalk, 14' off of street. Prune to limit weight	
	(Pyrus				and leverage over the streer thru a series of (8-10)	
41145	calleryana)	18.3	CITY HALL	Low	1-4" cuts. Lights. detail	

				1		
	maple:					
	Norway (Acer					
18528	platanoides)	15.9	N/A	Moderate	Removal. City arranging on separate contract	
	honeylocust:					
	thornless				Prune to remove dead/broken banches greater an	
	(Gleditsia				2" in diameter, raise 1-3' off surrounding utilities, 8-	
	triacanthos				10' of ground and sidewalk, 14' off of street. City	
18495	inermis)	7.4	N/A	Low	arranging on separate contract	
	honeylocust:					
	thornless				Prune to remove dead/broken banches greater an	
	(Gleditsia				2" in diameter, raise 1-3' off surrounding utilities, 8-	
	triacanthos				10' of ground and sidewalk, 14' off of street. City	_
18564	inermis)	12.8	N/A	Low	arranging on separate contract	
	honeylocust:					
	thornless				Prune to remove dead/broken banches greater an	
	(Gleditsia				2" in diameter, raise 1-3' off surrounding utilities, 8-	
	triacanthos	12	21/2		10' of ground and sidewalk, 14' off of street. City	_
18570	inermis) honeylocust:	12	N/A	Low	arranging on separate contract	
	thornless				Prune to remove dead/broken banches greater an	
	(Gleditsia				2" in diameter, raise 1-3' off surrounding utilities, 8-	
	triacanthos				10' of ground and sidewalk, 14' off of street. City	
18494	inermis)	12.2	N/A	Low	arranging on separate contract	
10101	incrinisy	12.2				
	stump					
40989	(Stump)	13	SOMERVILLE HIGH SCHOOL	N/A	none	
				-		
	stump					
40999	(Stump)	12	SOMERVILLE HIGH SCHOOL	N/A	none	
	stump					
41108	(Stump)	8	SOMERVILLE HIGH SCHOOL	N/A	none	
	stump					_
40925	(Stump)	6	SOMERVILLE HIGH SCHOOL	N/A	none	
	pine: Austrian				Prune to remove low deadwood greater than 2" in	
41058	(Pinus nigra)	16.9	SOMERVILLE HIGH SCHOOL	Moderate	diameter. Cable. Lights.	
	elm: hybrid				Prune to improve structure. Raise 8' off of ground,	
10033	(Ulmus x)	10	SOMERVILLE HIGH SCHOOL	Low	2-3' off of the monument.	
40932		4.9	SOMENVILLE HIGH SCHOOL	1000		

	pine: Austrian				Prune to remove low deadwood greater than 2" in		
40024		14.2		Law		_	
40934	(Pinus nigra)	14.2	SOMERVILLE HIGH SCHOOL	Low	diameter. Lights		
	zelkova:						
	Japanese						
	(Zelkova				Prune to remove low deadwood greater than 2" in		
40937	serrata)	6.7	SOMERVILLE HIGH SCHOOL	Low	diameter. Lights		
					Prune to remove dead/broken banches greater an		
					2" in diameter, raise 1-3' off surrounding		
					structures and utilities, 4-6' off of the monument-		
	maple: red				inlcudes removing several 2-4" low limbs, 8-10' of		
40941	(Acer rubrum)	17.3	SOMERVILLE HIGH SCHOOL	Low	ground and sidewalk, 14' off of street. Lights		
	pine: Austrian				Prune to remove low deadwood greater than 2" in		
40946	(Pinus nigra)	18.4	SOMERVILLE HIGH SCHOOL	Low	diameter. Lights. Root prune		
	zelkova:					_	
	Japanese						
	(Zelkova				Prune to remove low deadwood greater than 2" in		
40949	serrata)	6.9	SOMERVILLE HIGH SCHOOL	Low	diameter. Lights		
	arborvitae:				Prune to remove dead/broken banches greater an		
	eastern (Thuja				1" in diameter, raise 1-3' off surrounding		
40952	occidentalis)	5.6	SOMERVILLE HIGH SCHOOL	Low	structures.		
	arborvitae:				Prune to remove dead/broken banches greater an		
	eastern (Thuja				1" in diameter, raise 1-3' off surrounding		
40962	occidentalis)	5.1	SOMERVILLE HIGH SCHOOL	Low	structures.		
	,						
	pine: Austrian				Prune to remove low deadwood greater than 2" in		
40967	(Pinus nigra)	18.3	SOMERVILLE HIGH SCHOOL	Low	diameter. Lights		
	(
	lilac: Japanese						
	tree (Syringa						
40969	reticulata)	91	SOMERVILLE HIGH SCHOOL	Low	none	-	
40505	. cticulatuj	5.1		2011			
	arborvitae:				Prune to remove dead/broken banches greater an		
	eastern (Thuja				1" in diameter, raise 1-3' off surrounding		
	custern (muja						
//0071	occidentalis)	2 1	SOMERVILLE HIGH SCHOOL	Low	structures.		

40975	maple: red (Acer rubrum)	17 5	SOMERVILLE HIGH SCHOOL	Low	Prune to remove dead/broken banches greater an 2" in diameter, raise 1-3' off surrounding structures and utilities, 8-10' of ground and sidewalk, 14' off of street. Lights. Root prune.	_	
40975	crabapple:	17.5		LOW	sidewaik, 14 on of street. Lights. Root prune.		
	flowering						
	(Malus spp.)	11 0	SOMERVILLE HIGH SCHOOL	Low		-	_
40979	(ivialus spp.)	11.2	SOMERVILLE HIGH SCHOOL	Low	none		 _
40983	arborvitae: eastern (Thuja occidentalis)	3.7	SOMERVILLE HIGH SCHOOL	Low	Prune to remove dead/broken banches greater an 1" in diameter, raise 1-3' off surrounding structures.		
40984	maple: red (Acer rubrum)	13.8	SOMERVILLE HIGH SCHOOL	Low	Prune to remove dead/broken banches greater an 2" in diameter, raise 1-3' off surrounding structures and utilities, 8-10' of ground and sidewalk, 14' off of street. Lights. Root prune.		
	maple: Norway (Acer platanoides)	19.5	SOMERVILLE HIGH SCHOOL	Low	Prune to remove dead/broken banches greater an 2" in diameter, raise 1-3' off surrounding structures and utilities, 8-10' of ground and sidewalk, 14' off of street. Lights.		
41008	maple: red (Acer rubrum)	16	SOMERVILLE HIGH SCHOOL	Low	Prune to remove dead/broken banches greater an 2" in diameter, raise 1-3' off surrounding structures and utilities, 8-10' of ground and sidewalk, 14' off of street. Lights. Root prune.		
	dogwood: Kousa (Cornus kousa)	12.3	SOMERVILLE HIGH SCHOOL	Low	Prune to remove deadwood, improve structure, limit encroachment onto surrounding buildings		
41018	maple: red (Acer rubrum)	16.3	SOMERVILLE HIGH SCHOOL	Low	Gone.		
41020	maple: red (Acer rubrum)	12.9	SOMERVILLE HIGH SCHOOL	Low	Prune to remove dead/broken banches greater an 2" in diameter, raise 1-3' off surrounding structures and utilities, 8-10' of ground and sidewalk, 14' off of street. Lights. Root prune.		
	maple: red (Acer rubrum)	14.1	SOMERVILLE HIGH SCHOOL	Low	Prune to remove dead/broken banches greater an 2" in diameter, raise 1-3' off surrounding structures and utilities, 8-10' of ground and sidewalk, 14' off of street. Lights. Root prune.		

					Prune to remove dead/broken banches greater an		
					2" in diameter, raise 1-3' off surrounding		
41020	maple: red	15 5		Low	structures and utilities, 8-10' of ground and	_	
41039	(Acer rubrum)	15.5	SOMERVILLE HIGH SCHOOL	Low	sidewalk, 14' off of street. Lights. Root prune.		
	pine: Austrian				Prune to remove low deadwood greater than 2" in		
41044	(Pinus nigra)	17.6	SOMERVILLE HIGH SCHOOL	Low	diameter. Lights		
11011	(Thus high u)	17.0					
	pine: Austrian				Prune to remove low deadwood greater than 2" in		
41066	(Pinus nigra)	15.2	SOMERVILLE HIGH SCHOOL	Low	diameter. Lights root prune		
					Declining. Prune to remove dead/broken banches		
					greater an 2" in diameter, raise 1-3' off		
					surrounding structures and utilities, 8-10' of		
	maple: red				ground and sidewalk, 14' off of street. Lights. Root	_	
41141	(Acer rubrum)	13.1	SOMERVILLE HIGH SCHOOL	Low	prune.		 _
	arahanalar						
	crabapple: flowering				Prune to remove low deadwood greater than 2" in		
	(Malus spp.)	12.0	SOMERVILLE HIGH SCHOOL	Low	diameter. Lights	_	
41145		15.5	SOMERVILLE MIGH SCHOOL	LOW			
	crabapple:						
	flowering				Prune to remove low deadwood greater than 2" in		
41153	(Malus spp.)	13.1	SOMERVILLE HIGH SCHOOL	Low	diameter. Lights		
	crabapple:						
	flowering				Prune to remove low deadwood greater than 2" in		
41161	(Malus spp.)	11.3	SOMERVILLE HIGH SCHOOL	Low	diameter. Lights		
	crabapple:						
41110	flowering (Malus spp.)			1	Prune to remove low deadwood greater than 2" in	_	
41119	mulberry:	1.1	SOMERVILLE HIGH SCHOOL	Low	diameter. Lights		 ,
	white (Morus						
41067		17.1	SOMERVILLE HIGH SCHOOL	Low	Gone.		
	,						
	crabapple:						
	flowering						
41129	(Malus spp.)	6.3	SOMERVILLE HIGH SCHOOL	Low	Prune to ground level		
	pear: callery						
	(Pyrus				Prune to remove low deadwood greater than 2" in	_	
40957	calleryana)	6.8	SOMERVILLE HIGH SCHOOL	Low	diameter. Prune to correct structure. Lights		

crabapple: fowering 10.2 SOMERVILLE HIGH SCHOOL Low Prune to remove low deadwood greater than 2" in diameter. Lights 2elkova: Japanese Prune to remove low deadwood greater than 2" in diameter. Lights Prune to remove low deadwood greater than 2" in diameter. Lights 41008 serrata) 10.3 SOMERVILLE HIGH SCHOOL Low Plune to remove low deadwood greater than 2" in diameter. Lights 2elkova: Japanese Prune to remove low deadwood greater than 2" in diameter. Lights 2elkova: Japanese Prune to remove low deadwood greater than 2" in diameter. Lights 2elkova: Japanese Prune to remove low deadwood greater than 2" in diameter. Lights 2elkova: Japanese Prune to remove low deadwood greater than 2" in diameter. Lights 40060 serrata) 6.5 SOMERVILLE HIGH SCHOOL Low Prune to remove dead/broken banches greater an 2" in diameter. Lights 40960 serrata) 6.6 SOMERVILLE HIGH SCHOOL Low Brune to remove dead/broken banches greater an 2" in diameter. Lights 40960 serrata) 6.6 SOMERVILLE HIGH SCHOOL Low Brune to remove dead/broken banches greater an 2" in diameter. Lights 40985 cordata) 29.3 SOMERVILLE HIGH SCHOOL Low Bead. Remove gind stump Image: Some and Stame				1				
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41100 (Malus sp.) 10.2 SOMERVILLE HIGH SCHOOL Low dameter. Lights Image: Comparison of the comparison of th								
41100 (Malus sp.) 10.2 SOMERVILLE HIGH SCHOOL Low dameter. Lights Image: Comparison of the comparison of th		crabapple:						
41100 (Malus spp.) 10.2 SOMERVILLE HIGH SCHOOL Low diameter. Lights Image: Celebra i Japanese (Zelebra i Japanese i Zelebra i Zelebra i Japanese i Zelebra i Japanese i Ze						Brune to remove low deadwood greater than 2" in		
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Japanese (Zelkova Japanese (Zelkova) Japanese (41100	(walus spp.)	10.2		LOW			
Japanese (Zelkova Japanese (Zelkova) Japanese (zelkova:						
41089 (Zelkova Prune to remove low deadwood greater than 2" in diameter. Lights Image: Control of Co								
41089 serrata) 10.3 SOMERVILLE HIGH SCHOOL Low diameter. Lights Image: Control of the control o		· ·				Prune to remove low deadwood greater than 2" in		
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41166 serrata) 9.5 SOMERVILLE HIGH SCHOOL Low diameter. Lights 2elkova: Japanese Celkova Prune to remove low deadwood greater than 2" in diameter. Lights Image: Celkova 40960 serrata) 6.6 SOMERVILLE HIGH SCHOOL Low diameter. Lights Image: Celkova 40960 serrata) 6.6 SOMERVILLE HIGH SCHOOL Low diameter. Lights Image: Celkova 1inden: iinden: iinden: SomERVILLE HIGH SCHOOL Low situetles and utilities, 8-10' of guround and and situetles, 8-10' of guround and situetles, 8-10' of gur						Prune to remove low deadwood greater than 2" in		
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		0						
Biostim Stressed red pines and zelcova along highland,		Biostim				Stressed red pines and zelcova along highland.		
3000ft sq zelcova in tree wells by old admin building								
Police detail 3 days		30001134						
Permits Permits						3 days		

		Total: Lights removed prior		
Reports		Before and After		



Soil Test Report

Prepared For:

Sonia Vivas Barrett Tree Service East Inc 340 Middlesex Ave Medford, MA 02155

svivas@barretttreeeast.com 617-616-5281

Results

Soil and Plant Nutrient Testing Laboratory

203 Paige Laboratory 161 Holdsworth Way University of Massachusetts Amherst, MA 01003 Phone: (413) 545-2311 e-mail: soiltest@umass.edu website: soiltest.umass.edu

Sample Information:

Sample ID: H7174

Order Number:	64152
Lab Number:	S230221-109
Area Sampled:	
Received:	2/21/2023
Reported:	3/3/2023

Analysis	Value Found	Optimum Range	Analysis	Value Found	Optimum Range
Soil pH (1:1, H2O)	5.8		Cation Exch. Capacity, meq/100g	15.4	
Modified Morgan extractable, ppm			Exch. Acidity, meq/100g	8.2	
Macronutrients			Base Saturation, %		
Phosphorus (P)	6.0	4-14	Calcium Base Saturation	38	50-80
Potassium (K)	98	100-160	Magnesium Base Saturation	7	10-30
Calcium (Ca)	1178	1000-1500	Potassium Base Saturation	2	2.0-7.0
Magnesium (Mg)	140	50-120	Scoop Density, g/cc	0.94	
Sulfur (S)	14.4	>10	Optional tests		
Micronutrients *			Soil Organic Matter (LOI), %	6.8	
Boron (B)	0.1	0.1-0.5			
Manganese (Mn)	6.1	1.1-6.3			
Zinc (Zn)	11.3	1.0-7.6			
Copper (Cu)	2.0	0.3-0.6			
Iron (Fe)	10.3	2.7-9.4			
Aluminum (Al)	102	<75			
Lead (Pb)	25.5	<22			

* Micronutrient deficiencies rarely occur in New England soils; therefore, an Optimum Range has never been defined. Values provided represent the normal range found in soils and are for reference only.

Soil Test Interpretation

Nutrient	Very Low	Low	Optimum	Above Optimum
Phosphorus (P):				
Potassium (K):				
Calcium (Ca):				
Magnesium (Mg):				



Soil and Plant Nutrient Testing Laboratory 203 Paige Laboratory 161 Holdsworth Way University of Massachusetts Amherst, MA 01003 Phone: (413) 545-2311 e-mail: soiltest@umass.edu website: soiltest.umass.edu

Recommendations for Deciduous Trees, Shrubs & Vines-Maintenance

Limestone (Target pH of	6.0) Nitrogen, N	Phosphorus, P2O5	Potassium, K2O
		lbs / 100 sq ft	
10	.12	0.1	0.25

Comments:

-The lead level in this soil is elevated. It is recommended that soils with elevated levels of extractable lead (greater than 22 ppm) be tested for Total Sorbed Lead. The UMass Soil Lab offers a Total Sorbed Metals test that measures total lead and other heavy metals. Ordering information can be found on our website here: https://soiltest.umass.edu/ordering-information. For more information about lead levels in soil, see the fact sheet entitled "Soil Lead: Testing, Interpretation, & Recommendations," listed under General References at the end of this report. ATTN: The Total Sorbed Metals Test is currently unavailable. Please visit our website for more information. We apologize for any inconvenience.

-Do not topdress with more than 5 lb limestone per 100 sq ft at one time. Split the above application between early spring and midautumn.

*To supply Nitrogen, apply EITHER 1 - 1.5 lbs. Dried Blood (12-0-0) OR 0.2 - 0.4 lbs. Urea (45-0-0) per 100 square feet. Application should be split between early spring and mid-June.

*To supply Phosphorus, apply EITHER 0.8 lbs. Bone Meal (4-12-0) OR 0.2 lb. Triple Phosphate (0-45-0) per 100 square feet. *To supply Potassium, apply 0.4 lbs. Potash (0-0-60) per 100 square feet.

-For instructions on converting nutrient recommendations to fertilizer applications in home gardens and landscapes, see Reference "Step-by-Step Fertilizer Guide for Home Grounds and Gardening" (listed below).

References:

Home Lawn and Garden Information	http://ag.umass.edu/resources/home-lawn-garden	
Step-by-Step Fertilizer Guide for Home Grounds and Gardening	https://ag.umass.edu/SPNTL-4	
General References:		
Interpreting Your Soil Test Results	http://soiltest.umass.edu/fact-sheets/interpreting-your-soil-test-results	
Soil Lead: Testing, Interpretation & Recommendations	http://ag.umass.edu/soil-plant-nutrient-testing-laboratory/fact-sheets/soil-lead-fact-sheet	
For current information and order forms, please visit	http://soiltest.umass.edu/	
UMass Extension Nutrient Management	http://ag.umass.edu/agriculture-resources/nutrient-management	