



2014–2018

Community Forestry Management Plan

Borough of Tenafly

Bergen County, NJ

2014 – 2018 COMMUNITY FORESTRY MANAGEMENT PLAN

Borough of Tenafly Bergen County New Jersey

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Municipal / County Information Form

MUNICIPALITY	<i>Borough of Tenafly</i>	
COUNTY	<i>Bergen</i>	
ADDRESS	<i>107 Grove Street Tenafly, NJ 07670</i>	
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ORGANIZATION	<i>Department of Public Works</i>	
MAYOR'S SIGNATURE	<i>Original Copy Signed</i>	
DATE SUBMITTED	<i>December, 2013</i>	
TIME PERIOD	<i>January, 2014 – December, 2018</i>	
CSIP PRACTICES IDENTIFIED IN PLAN	<input checked="" type="checkbox"/> CSIP #1 Trainingp. 17 <input checked="" type="checkbox"/> CSIP #2 Community Forestry Ordinance Establishment p. 13, 14 <input checked="" type="checkbox"/> CSIP #3 Public Education & Awarenessp. 20 <input checked="" type="checkbox"/> CSIP #4 Arbor Dayp. 20 <input checked="" type="checkbox"/> CSIP #5 Tree Inventory p. 22, 33 <input checked="" type="checkbox"/> CSIP #6 Hazard Tree Assessmentp. 24 <input checked="" type="checkbox"/> CSIP #7 Storm Damage Assessment p. 24, 33 <input checked="" type="checkbox"/> CSIP #8 Tree Maintenance & Removalsp. 28 <input checked="" type="checkbox"/> CSIP #9 Insect and Disease Management p. 26, 29, 32 <input checked="" type="checkbox"/> CSIP #10 Wildfire Protectionp. 32 <input checked="" type="checkbox"/> CSIP #11 Tree Plantingp. 25 <input checked="" type="checkbox"/> CSIP #12 Tree Recyclingp. 31 <input checked="" type="checkbox"/> CSIP #13 Sidewalk Maintenance Programp. 29 <input checked="" type="checkbox"/> CSIP #14 Stormwater Managementp. 8 <input checked="" type="checkbox"/> CSIP #15 Other various sections	

** I Certify that this Community Forestry Management Plan was developed specifically and exclusively for the Borough of Tenafly.*

Official Use Only Certification

The above named municipality has made formal application to the New Jersey Forest Service. I am pleased to advise you that after our review, the NJ Forest Service has concluded that this plan meets the standards set forth by the State and the NJ Community Forestry Council and is approved for the period covered.

Signed:

Original Copy Signed & Dated

State Forester

Approved Date

SCOPE

The following Community Forestry Management Plan outlines the programs and procedures through which public tree resources in the Borough of Tenafly will continue to be managed through December 31, 2018.

The Borough has developed this Community Forestry Management Plan in accordance with statewide efforts to preserve and promote sustainable community forest resources, and in support of the goals and objectives of the Borough's Master Plan.

Objectives contained in this third five-year plan build upon the successes realized in implementing the Borough's two previous five-year plans and are primarily focused toward public trees along Borough streets and on Borough properties.

In addition, it is anticipated that elements of this Plan will help to stimulate the planting and proper care of trees on private property by their respective owners for the benefit of the entire community.

MISSION STATEMENT

To improve and maintain the quality of life in Tenafly by maximizing the environmental, social, and economic benefits of trees to the community while minimizing the associated costs and liabilities.

OVERALL PROGRAM GOALS

The New Jersey Community Forestry Council has identified fifteen Community Stewardship Incentive Program (CSIP) practices that comprise a complete and comprehensive community forestry program.

Within each of the Plan elements that follow, existing programs, policies and procedures are described, intermediate and element-specific goals are established, and CSIP-based objectives for the 2014 – 2018 management period are set.

Systematic fulfillment of these CSIP-specific goals and objectives will continue to move the Borough of Tenafly's Shade Tree Program toward its overall program goals, which remain as follows:

1. Develop and perpetuate beneficial shade tree resources.
2. Maximize the benefits of trees to the community.
3. Maximize long-term stability and sustainability in the community forest.
4. Optimize the balance between tree health, maintenance costs and budgetary constraints.
5. Minimize the risk of trees to public safety.
6. Minimize conflicts between trees, sidewalks, and other fixtures.
7. Stimulate public interest, appreciation, and support for public shade trees and encourage participation in the Shade Tree Program.
8. Encourage the proper stewardship of trees on private property.
9. Meet all eligibility requirements of the New Jersey Shade Tree & Community Forestry Assistance Act.

**TREE HAZARDS
& LIABILITY**

The Borough of Tenafly recognizes the physical, environmental, economic, and social benefits that a well-established and properly maintained tree resource provides to the community.

The Borough also recognizes, however, that the benefits of trees do not come without costs and liabilities. As with all municipal assets – perhaps even more so – trees require maintenance, they mature, and they eventually require replacement. During their life, it is inevitable that potentially hazardous conditions will emerge.

Experience has shown that comprehensive and proactive community forestry programs that strive to prevent, anticipate, and correct such problems will cost-effectively maximize the benefits of trees while minimizing the threat to public safety and exposure to liability.

Still, the Borough acknowledges that, despite its best efforts, not all such hazardous conditions can or will be predicted. Comprehensive and proactive management will reduce the probability of hazards, but unpredictable events will still occur. The Borough must work with limited resources and may not be able to meet every need immediately.

This plan is designed to optimize the balance between tree benefits and risks. Public safety will be a primary consideration in the implementation of all of its components, from tree planting, to maintenance, to eventual removal and replacement.

The intent is to direct available resources toward the greatest needs and systematically develop and maintain a healthy community forest with a commensurate reduction in threats to public safety. This plan provides a means of identifying and systematically addressing existing tree hazards. Further, it provides a means of reducing the potential for future hazards and liability through responsible planting and preventative maintenance.



2008 – 2013 SHADE TREE PROGRAM REVIEW

In implementing its 2008 – 2013 Community Forestry Management Plan, the Borough of Tenafly remained highly effective and efficient in continuing all of existing programs and procedures to ensure its public tree resource is adequately maintained and perpetuated. It was successful in completing several of the objectives it set in its 2008 Community Forestry Management Plan, but various circumstances prevented it from completing others.

The following is a summary of the Shade Tree Program's activities and accomplishments as they relate to objectives outlined in its 2008 – 2013 Community Forestry Management Plan.

1. *Program Administration*

- a) The Borough continued to implement all of its previously existing administrative programs, policies and procedures. (*Program Administration, Objective #1*)
- b) The Department of Public Works, Borough Administrator and Building Department began collaborating to clarify enforcement of the Borough's Tree Removal and Protection ordinance and other elements of the Borough Code that relate to trees. Progress was made and the process will continue. (*Program Administration, Objective #3*)
- c) In 2008, the Borough reviewed and amended Chapter 26 of the Borough Code, *Trees* to address the definition of major mature trees and their mitigation, requirements for a public hearing when 20 or more major trees are to be removed from a property within a 24 month period, and violations and penalties.

2. *Training & Professional Development*

- a) The Borough continued its existing training programs, met its New Jersey Shade Tree & Community Forestry Assistance Act, Training Skills & Accreditation Program continuing education requirements each year, and maintained continuous Approved Status under the Act. (*Training & Professional Development, Objective #1 and #2*)
- b) Both the Director of Public Works and Shade Tree Foreman continued to maintain their International Society of Arboriculture Certified Arborist certifications.
- c) In 2008, the Director of Public Works and Shade Tree Foreman attended Tree Preservation on Construction Sites and Municipal Tree Management training programs through the Rutgers NJAES Office of Continuing Professional Education.
- d) In 2009, the Borough's Code Enforcement Official attended a Hazardous Tree Identification course through the Rutgers NJAES Office of Continuing Professional Education.
- e) In 2010, Department of Public Works employees received Electrical Hazard Training from ACRT, which was scheduled in cooperation with the Borough of Bergenfield's Shade Tree Department. (*Training & Professional Development, Objective #6*)
- f) In 2011, two Department of Public Works employees attended the Introduction to Pruning Techniques course through the Rutgers NJAES Office of Continuing Professional Education.
- g) In 2012, two Department of Public Works employees attended the Tree Planting and Installation course through the Rutgers NJAES Office of Continuing Professional Education.

3. *Public Education, Awareness & Outreach*

- a) The Borough continued to implement its existing public education, awareness and outreach programs. (*Public Education, Awareness & Outreach, Objective #1*)

- b) Arbor Day celebrations were held each year and included proclamations from the Mayor and Council, presentations and programs at local elementary schools, and distribution of tree seedlings to students. *(Public Education, Awareness & Outreach, Objective #2)*
- c) The Borough continued to apply for, receive and advertise its designation as a Tree City USA by the National Arbor Day Foundation every year since 2003. *(Public Education, Awareness & Outreach, Objective #3)*
- d) In 2011 and 2012, the Borough was additionally honored by the National Arbor Day Foundation with its Tree City USA Growth Award. *(Public Education, Awareness & Outreach, Objective #3)*
- e) In 2011, Tenafly achieved bronze level certification from the Sustainable Jersey Program. 15% of the certification points earned by the Borough resulted from its approved status under the NJ Shade Tree & Community Forestry Assistance Act and its tree protection ordinance.
- f) The Department of Public Works routinely completed Resistograph tests on trees to visually illustrate to concerned residents why certain trees did or did not require removal.

4. *Tree Inventory & Assessment*

- a) The Borough continued to utilize the limited information it has available about its current tree population to guide its tree planting and maintenance activities toward its overall program goals.
- b) The Borough was unable to complete a long-planned inventory and assessment of its public tree resource due to insufficient available funding. The inventory remains a primary objective and has been carried to this 2014 – 2018 Plan. *(Tree Inventory, Objective #1)*

5. *Tree Hazard Management*

- a) Through the efforts of the Department of Public Works, the Borough continued to implement its previously existing programs, policies and procedures for identifying and addressing trees requiring priority maintenance to minimize potential tree hazards on an ongoing basis. *(Tree Hazard Management, Objective #1)*
- b) The Borough did not complete the Existing Priority Maintenance Work objective from its 2008 – 2013 Community Forestry Management Plan because it was directly dependent on completion of the tree inventory and assessment objective. This objective has been carried to this 2014 – 2018 plan. *(Tree Hazard Management, Objective #2)*

6. *Tree Planting*

- a) The Borough continued to implement its previously existing tree planting programs, policies and procedures to the extent that available budget allowed, and continued seeking and planting an increased variety of species and cultivars. *(Tree Planting, Objective #1)*
- b) The Borough did not establish street tree stocking, age diversity, and species composition goals and guidelines because these objectives were dependent upon completion of the street tree inventory and assessment objective. These objectives have been carried to the 2014 – 2018 management period. *(Tree Planting, Objectives #2 & #3)*

7. *Tree Maintenance*

- a) The Borough continued to implement its previously existing tree maintenance programs, policies and procedures. *(Tree Maintenance, Objective #1)*
- b) The Borough continued to seek, implement and evaluate alternative techniques to mitigate tree and sidewalk conflicts and believes that they have helped reduce the incidence and severity of sidewalk damage in many cases. *(Tree Maintenance, Objective #2)*

8. *Tree Waste Recycling*

- a) Tenafly continued to implement all of its previously existing tree waste recycling programs, policies and procedures. *(Tree Waste Recycling, Objective #1)*

9. Tree Care Disaster Plan

- a) The Borough continued to implement all of its previously existing tree care disaster plan programs, policies and procedures when needed. *(Tree Care Disaster Plan, Objective #1)*
- b) As with much of Bergen County, Tenafly was severely impacted by multiple storms that caused severe and widespread tree damage and losses in 2010 – 2012. These storms created 19,000 cubic yards of tree debris in 2010 and 20,000 cubic yards in 2011. The Department of Public Works and other Borough personnel responded according to plan and addressed the damage efficiently.

10. Plan Preparation & Evaluation

- a) The Borough of Tenafly continually reviewed its Community Forestry Management Plan, monitored progress toward its goals and objectives, and made the necessary adjustments in the Shade Tree Program’s activities to address current needs. *(Plan Preparation & Evaluation, Objective #1)*
- b) The Borough submitted all necessary Annual Accomplishment Reports to the NJ Forest Service in accordance with the requirements of the New Jersey Shade Tree & Community Forestry Assistance Act and maintained its approved status under the Act. *(Plan Preparation & Evaluation, Objective #1)*
- c) The Borough has prepared this third five-year Community Forestry Management Plan for the 2014 – 2018 management period with the assistance of a NJ Green Communities Challenge Grant and based on a thorough review of its goals, objectives and current needs. *(Plan Preparation & Evaluation, Objective #2 and #3)*

**2003 – 2013
COMMUNITY
FORESTRY
MANAGEMENT
PLAN BENEFITS**

Since 2003, the Borough of Tenafly’s Shade Tree Program has been defined and guided by this Community Forestry Management Plan. As a result, the Borough has realized several benefits, which include the following:

- 1. The Mayor and Council’s and taxpayer’s support of Tenafly’s Shade Tree Program has remained as strong as it can be during difficult economic times with the Plan providing clear justification of the costs, relative to the benefits, that the Shade Tree Program provides.
- 2. With clearly stated goals and methods for attaining them, this Community Forestry Management Plan has served as an effective working manual for the Department of Public Works and related personnel that consistently directs efforts toward common goals.
- 3. Training completed in accordance with the New Jersey Shade Tree & Community Forestry Assistance Act requirements has continually increased the knowledge and capability of the Borough’s personnel. As a result, the Department of Public Works had continued to manage the Borough’s trees in a high quality, effective and efficient manner.
- 4. Despite a largely mature and aging tree population, the Borough has remained relatively safe as a result of the Shade Tree Program constantly evaluating the public tree population, identifying potentially hazardous conditions, and directing efforts toward the pruning and removal of problem trees in logical order and in an efficient, proactive manner.

**CURRENT
PUBLIC TREE
ASSESSMENT**

To date, the Borough has been unable to complete a comprehensive inventory and assessment of its existing public tree resources. Based on the impressions of the Director of Public Works and the Shade Tree Foreman it is believed that:

- 1. The Borough’s street tree population is still comprised of large numbers of Norway and other maples, pin oaks, red oaks, and Callery pears. The number of Norway maples and Callery pears has been significantly reduced over the past several years due to ongoing deterioration in their health and structural condition and replacement with more desirable species.

2. There remain a significant number of Norway maples that are deteriorating rapidly in condition. These account for approximately 60% of the public trees removed by the Borough each year.
3. Large segments of the public tree population are mature and over-mature in age structure, although the overall age structure of the resource is improving as a result of continuous removal and replacement of aging and deteriorating trees.
4. A large percentage of the trees that failed during storms in recent years were mature oaks.
5. Damage from tree and sidewalk conflicts continues to be a significant problem throughout the Borough, though the frequency and severity has been reduced over the past several years.
6. The incidence of utility pole guy wires anchored in trees, which caused significant damage in the past, has been significantly reduced as a result of the Borough's efforts.
7. A substantial number of trees continue to be weakened in health and/or structure due to pruning to reduce conflicts between trees and overhead utilities.

Key changes in the street tree population since the initial 2003 Community Forestry Management Plan was implemented include:

1. A significant reduction in the number of Norway maples and Callery pears in the public tree population.
2. Continued improvement in species diversity in the public tree population, particularly in the younger age classes.
3. Continued improvement in the overall condition of the tree population as trees in poor condition are removed and new trees are planted properly and with adequate space to grow.
4. A reduction in the number of potentially hazardous trees as a result of increased training and awareness among employees of the Department of Public Works.
5. A small reduction in the severity of line clearance pruning needed as the Borough strives to plant smaller species under electric lines.

**TREE
CANOPY
COVER**

A recent study by the USDA Forest Service using 2001 Landsat satellite imagery and 1990 and 2000 census and geographic data (*USDA Forest Service Northern Research Station, General Technical Report NRS-47, 2009*), indicates that Tenafly's public and private urban forest collectively covers approximately 63% of the Borough. It is not clear whether tree planting efforts combined with losses to advancing age, severe storms and other forces have resulted in a net increase or decrease in canopy cover since the report was prepared in 2001.

It is generally recommended that metropolitan areas in the northeast possess at least 40% tree canopy cover to ensure sufficient community-wide benefits and to address climate change.

As such, the Borough has adopted a goal of maintaining 63% canopy cover into the future. To achieve this goal, the Borough and its residents must acknowledge that the canopy is not static or self-sustaining, and that continuous efforts to avoid indiscriminate tree removal and to replace trees inevitably lost to age and normal attrition are necessary.

**RELATION TO
THE BOROUGH
MASTER PLAN**

All aspects of this Community Forestry Management Plan remain consistent and compatible with the goals, objectives and general intent of the Borough's *Master Plan* (last Reexamination Report 2012), and *Open Space and Recreation Plan* (adopted in 2007).

In general, comprehensive shade tree management efforts, as outlined in this Community Forestry Management Plan, will help preserve the natural features and tall trees upon which the pattern of Tenafly's development was based. They will preserve the aesthetic appeal of Tenafly's existing streetscapes and its established residential character. Management efforts will ensure that the tree resource is maintained and perpetuated so that the physical, economic and social benefits of trees to

the community will be maximized and will continue, uninterrupted, over the long term.

Specific goals, objectives, principles, policies, and standards set forth in the Borough's most recent *Master Plan Reexamination Report* to which this Community Forestry Management Plan directly or indirectly relate include:

- *To preserve and protect the residential character and existing density of the community...*
- *To ensure that any prospective development and/or redevelopment is responsive to Tenafly's environmental features.*
- *To encourage and provide buffer zones to separate incompatible land uses.*
- *To consider environmentally sensitive features and extensive woodland vegetation as a means of preserving steep slopes, wetlands, wooded areas, scenic qualities, historic facilities, retaining open space and reducing infrastructure costs.*
- *To preserve and enhance the Borough's community facilities, ensuring that the Borough addresses the public safety, recreational, and other needs.*

Specific goals and policies of the *Open Space and Recreation Plan* to which this Community Forestry Management Plan directly or indirectly relate include:

- *To maintain and enhance existing public open spaces so they will continue to maintain Tenafly's character.*
- *To support conservation efforts in order to preserve environmentally sensitive land, natural features, open space, and protect the character of residential neighborhoods.*
- *To provide and enhance various scenic sites throughout the Borough.*

In addition, Borough Code relating to zoning, subdivisions, land use, and site plan review, as well as the Borough's *Tree Removal and Protection* ordinance (Chapter XXVI, *Trees*, of the Revised General Ordinances of the Borough of Tenafly), contain specific requirements regarding trees, landscaping and buffers that relate to both the goals and objectives of the Master Plan and this Community Forestry Management Plan.

**RELATION TO
THE BOROUGH'S
STORMWATER
MANAGEMENT
PLAN**

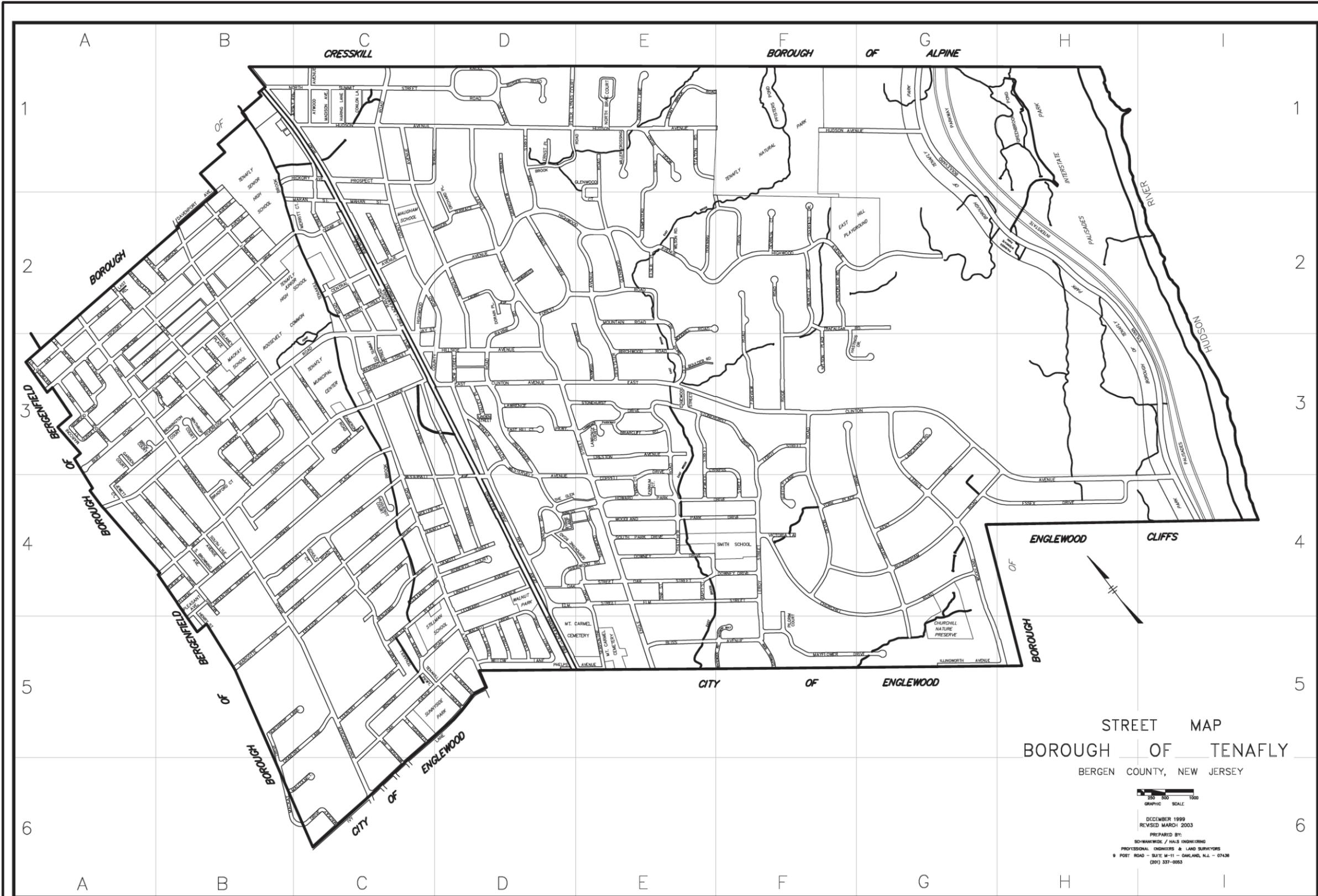
The Borough of Tenafly's *Municipal Stormwater Management Plan* (January, 2005; last revised May, 2007), an element of the Master Plan, establishes policies and provides specific requirements and recommendations to minimize point and non-point contamination of local water bodies in accordance with State regulations.

Given that trees and other vegetation are a key component of the hydrologic cycle, stabilize and reduce the erosion of soils, improve percolation of surface water into the ground, and absorb pollutants, implementation of this Community Forestry Management Plan will contribute significantly to several goals and objectives of the Municipal Stormwater Management Plan, including:

- *Minimize, to the extent feasible, any increase in stormwater runoff volume from any new development.*
- *Reduce soil erosion from any development or construction project.*
- *Maintain groundwater recharge.*
- *Prevent, to the greatest extent feasible, an increase in nonpoint pollution.*
- *Maintain the integrity of stream channels for their biological function, as well as for drainage.*
- *Minimize pollutants in stormwater runoff from new and existing developments to restore, enhance, and maintain the chemical, physical, and biological integrity of the waters of the State, to protect public health, to safeguard fish and aquatic life and scenic and ecological values, and to enhance the domestic, municipal, recreational, industrial, and other uses of the water.*

Increased levels of tree canopy and vegetative cover are directly correlated to improved water quality and reduced risk of flooding. The *Municipal Stormwater Management Plan* specifically references Section 722-C, *Shade Trees* of the Borough's *Land Development Ordinance*, which requires the planting of trees, and its *Tree Removal and Protection* ordinance, which regulates the removal of trees on private lands, as two of its nonstructural stormwater management strategies.

The Borough further encourages private property owners to preserve, plant and maintain trees, shrubs and other vegetation on previously developed properties to further reduce impervious groundcover, ensure efficient, natural drainage, reduce the risk and severity of flooding, and minimize the runoff of silt, nutrients, and pollutant laden stormwater into local water networks. The planting of low-maintenance landscapes that minimize pesticide usage is strongly recommended.



STREET LIST

ATWOOD AVE.	C-1	LANCASTER RD.	G-3
BAYWOOD ST.	A-3	LAST RD.	A-2
BENNINGTON CT.	C-5, C-4	LAUREL AVE.	D-2
BIRKWOOD PL.	F-2	LAWRENCE CT.	F-3
BLOSS AVE.	F-3	LAWRENCE PKWY.	D-3, F-3
BOULDER RD.	F-5	LEONARD AVE.	D-3, F-5
BRADFORD CT.	B-4	LEROY ST.	F-2
BRIARCLIFF RD.	E-3	LESLIE PL.	D-3
BRICK CT.	A-3	LINDEN ST.	D-4
BROOK RD.	D-1	LINDLEY AVE.	D-4
BROWNING AVE. (NO.)	A-4, B-4	LOUISE LANE	C-4
BUCKINGHAM RD.	F-4, G-4	LYLE AVE. (NORTH)	B-4
BUFF RD.	A-3	LYLE AVE. (SOUTH)	B-4
BURLINGTON RD.	B-4, C-4	LYLEWOOD DR.	B-3, B-4
BYRNE LANE	D-4		
CAMBRIDGE RD.	A-3	MACKAY DR.	B-5, C-6
CEDAR ST.	C-2	MADISON AVE.	C-1, C-3
CENTRAL AVE.	C-2	MAGNOLIA AVE.	C-1, D-3
CHESTNUT ST.	D-5	MAHAN ST.	B-2, C-2
CHURCHILL RD.	F-4, G-4	MALCOLM CT.	B-6, C-6
CLARKE PL.	B-3	MAPLE ST.	F-4
CLOVER ST.	D-3	MARCONI ST.	B-5
COLLEMAN TERR.	C-4	MARCOUETTE LANE	F-5, G-5
COLUMBUS DR.	A-3, C-2	MELLON LANE	B-2
CONLAN LANE	C-1	MERRI CT.	B-2, C-2
COLONIAL RD.	A-3	MIDWOOD RD.	A-3
COPELL DR.	E-4, F-3	MILLER CROSSING	F-1
CORTLANDT PL.	B-3	MISSION WAY	C-4, D-4
COUNTRY CLUB RD.	C-5	MILLER ST.	B-4
COUNTY RD.	C-1, C-3	MORRIS DR.	B-2
CRABTREE LANE	B-6, C-5	MOUNTAIN RD.	F-2
CRESTON ST.	F-3		
CYPRESS ST.	F-4	NELSON PL.	F-2, F-3
DAISY PL.	B-3	NEW ST.	D-3
DAVENPORT AVE.	B-2	NEWCOMB RD.	A-3, B-2
DAY AVE.	A-3, A-2	NORMANN PL.	C-1, C-3
DEAN DR.	D-5	NORTH BRAE CT.	E-4
DEERFIELD DR.	F-2	NORTHROP LANE	B-5, C-5
DELANEY PL.	B-3		
DEMOTT ST.	D-4	OAK AVE.	C-6, D-5
DEPESSTER AVE.	F-5, E-3	OLD SMITH RD.	D-4, E-4
DEVON RD.	F-3, F-4	OXFORD DR.	E-3
DE VRIESE CT.	F-3		
DOGWOOD LANE	E-1	PALISADES PKWY.	C-1, I-4
DORAIN PL.	D-2	PARK ST.	D-1, D-2
DOWNEY DR.	E-4, F-4	PETER LYNAS CT.	D-1
EAGER PL.	A-2, B-2	PHELPS AVE.	D-5, E-5
EAST HILL CT.	D-3, I-4	PHEWENT RD.	D-1, C-3
EDGEWOOD ST.	F-3, E-4	PILGRIM CT.	E-4
EDWARD CT.	D-2	PINE ST.	F-4
ELKWOOD TERR.	F-5	PLEASANT AVE.	B-4, B-5
ELM ST.	D-4, F-4	POPULAR ST.	B-4
ENGLE ST.	D-1, B-5	PORTER AVE.	B-4
ENGLON RD.	B-5, C-4	PRIOR LANE	C-4
ERNEST PL.	D-1	PROSPECT TERR.	C-1
ESMOND PL.	A-2, B-3		
ESSEX DR.	F-4, H-4	RAVINE RD.	D-2, D-3
EVANS CT.	F-4	RICHARD ST.	A-4, B-3
EVERGREEN PL.	D-5	RIDGE RD.	F-2, F-3
FARNUM CT.	E-4	RIVERVIEW RD.	A-4, C-3
FARMVIEW RD.	F-2, F-3	ROBERTS CT.	D-4
FLORAL TERR.	B-4	ROYDEN RD.	D-1
FOREST RD.	D-2, E-2	SCHULTZ CT.	C-4
FOSTER RD.	B-3, C-3	SERPENTINE RD.	D-3, E-5
FRANKLIN ST.	C-3, D-4	SHERWOOD RD.	D-1, E-4
GARDEN CT.	A-3	SISSON TERR.	C-3, D-2
GEORGE ST.	C-3, D-4	SOMERSET RD.	C-3
GLEN, THE	D-4	SOUTH PARK DR.	E-4
GLENWOOD CT.	E-1, E-2	SPRUCE ST.	A-2
GLENWOOD RD.	E-1, E-2	STANISH CT.	B-4
GORDON AVE.	B-2	STANTON RD.	E-1
GRANDVIEW TERR.	D-1, D-2	STONEHURST DR.	D-2, F-3
GREENTREE TERR.	B-4	STONEBROOK RD.	F-1, F-4
GROVE ST.	B-1, C-2	SUFFOLK LANE	F-3, F-4
HAMILTON PL.	C-5, D-4	SUMMIT ST. (NORTH)	B-1, D-1
HARING LANE	C-1	SUMMIT ST. (SOUTH)	C-3
HAROLD ST.	C-2	SUNDELAND RD.	F-3
HARSON RD.	F-5	SUNSET LANE	A-3, B-2
HASTINGS DR.	F-2, G-3	SUNSET TERR.	A-3
HAZELTON TERR.	A-2	SURREY LANE	B-4, C-3
HENRY ST.	B-5	SUSSEX RD.	B-4, C-4
HICKORY AVE.	A-3, B-2	SYLVAN BLVD. (U.S. 9W)	D-1, I-4
HIGHWOOD AVE.	C-3, G-2	TERKING DR.	D-2, F-2
HILLCREST RD.	A-3	TENAFLY CT.	C-4, D-4
HILLSIDE AVE.	C-3, D-3	TENAFLY RD.	C-2, D-5
HODSDON AVE.	D-5	TENAKILL PKWY.	C-5
HOMESTEAD RD.	E-1, E-2	THATCHER RD.	F-3, E-4
HOWARD PARK DR.	E-4, F-4	TRAFALGER RD.	F-2, C-2
Hudson AVE.	C-1, E-1	VALLEY PL.	D-3
HUGENOT CT.	C-4	VICTORIA LANE	F-4
HUYLER AVE.	D-3	VIRGINIA ST.	B-3
ILINGWORTH AVE.	C-5, M-5	WALNUT DR.	D-5
INNESS RD.	D-4, E-4	WASHINGTON ST.	B-3
IVY LANE	C-6, D-5	WEST CLINTON AVE.	B-4, C-3
JAY ST.	C-2	WEST RAILROAD AVE.	C-2, C-3
JEFFERSON AVE.	B-2, C-3	WESTERVELT AVE.	B-4, E-4
JERSEY AVE.	B-1	WHITEWOOD RD.	B-3, F-5
JEWETT AVE.	A-4, B-4	WINSHT PL.	D-3
JEWETT CT.	A-4	WILKINS PL.	D-5
JOYCE RD.	C-4	WILLOW LANE	D-5
KENT RD.	C-4, C-3	WILSON RD.	C-3
KENWOOD RD.	D-2, E-3	WINDSOR RD.	C-6, D-5
KNICKERBOCKER RD.	A-2, C-6	WINTHROP CT.	B-3
KNOLL RD.	D-1	WOOD RD.	E-1
		WOODHILL RD.	E-1, E-2
		WOODLAND PARK DR.	D-4, F-4
		WOODLAND ST.	G-3, H-5
		WOODMERE LANE	B-3
		YORK PL.	F-4, G-4

**STREET MAP
BOROUGH OF TENAFLY
BERGEN COUNTY, NEW JERSEY**

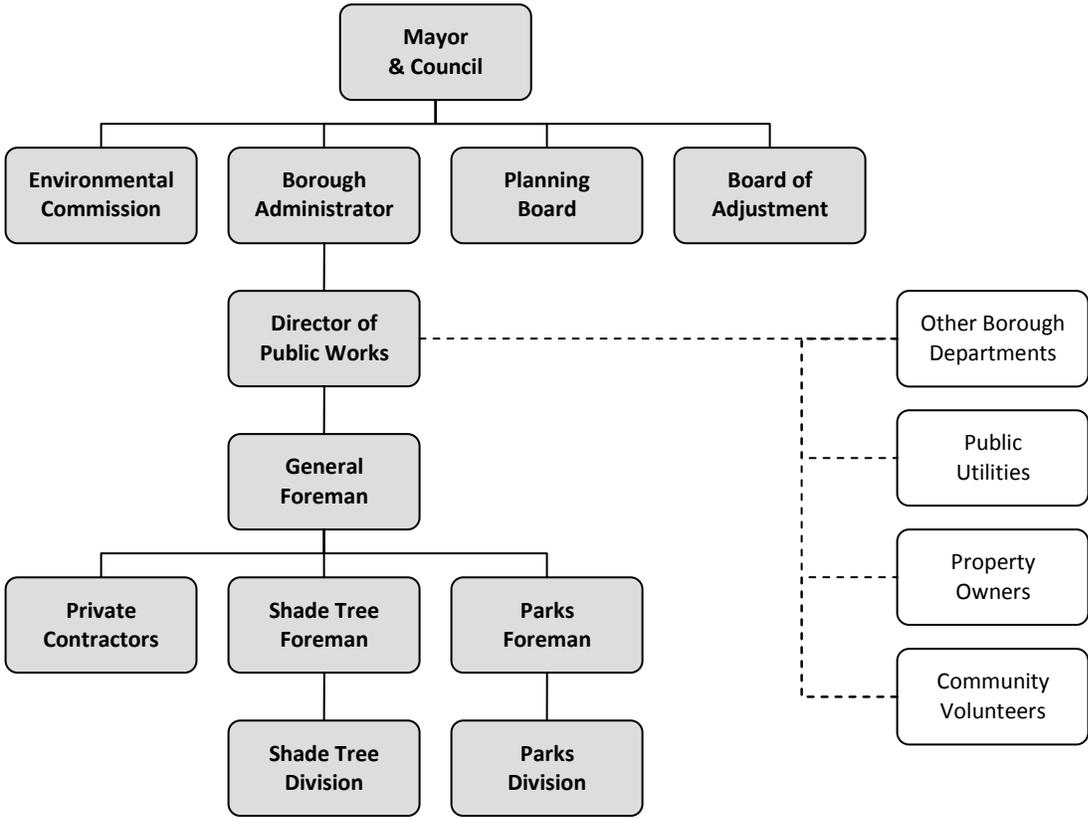


DECEMBER 1999
REVISED MARCH 2003
PREPARED BY:
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SHADE TREE PROGRAM STRUCTURE

The Department of Public Works is primarily responsible for the management of public tree resources in the Borough of Tenafly.

Other Borough departments and boards, and certain external groups cooperate to form Tenafly's Shade Tree Program, as follows:



SHADE TREE PROGRAM RESPONSIBILITIES

1. **Mayor & Council**
 - a) The Mayor:
 - i) Serves as the chief executive officer of the Borough.
 - ii) Is responsible for appointing members to the various Borough boards and commissions.
 - b) The Council:
 - i) Is responsible for all legislative functions in the Borough.
 - ii) Has ultimate authority over the policies, procedures, and programs of the Shade Tree Program and is responsible for approving its budget.
2. **Borough Administrator**
 - a) The Borough Administrator serves as the chief administrative official of the Borough.

- b) The Borough Administrator is responsible for:
 - i) Serving as a liaison between the Mayor and Council and the various Borough departments and agencies.
 - ii) Ensuring that the Borough follows all applicable laws, policies and procedures in the procurement of personnel, resources and contractors.
 - iii) Approving permits and determining mitigation fees relative to the Borough's *Tree Removal and Protection* ordinance.

3. *Planning Board & Board of Adjustment*

- a) The Planning Board and Board of Adjustment are responsible for implementing various elements of the Borough Code and Borough Master Plan that relate to site development and the protection of natural resources.

4. *Department of Public Works*

- a) The Department of Public Works is primarily responsible for the management of public tree resources in the Borough of Tenafly.
- b) Specifically, the Department of Public Works is responsible for:
 - i) Managing the day-to-day aspects of the Borough's Shade Tree Program.
 - ii) Setting long-term goals and plans in cooperation with the Mayor and Council and the Borough Administrator.
 - iii) Administering various aspects of Chapter XXVI of the Borough Code, *Trees*, on behalf of the Borough Administrator.
 - iv) Receiving requests for public tree maintenance and planting from property owners and scheduling and completing the necessary inspections and work.
 - v) Completing, or supervising contractors hired to complete, public tree pruning, removal and other maintenance tasks.
 - vi) Planting new public trees.
 - vii) Pruning tree roots, when necessary, during sidewalk replacement projects.
 - viii) Providing emergency response service, when appropriate.

5. *Tree Maintenance & Planting Contractors*

- a) Private contractors are occasionally hired to complete public tree removal work, primarily when specialized equipment and/or personnel are required.
- b) Contractors are, within the terms of their agreement, responsible for:
 - i) Completing all work to the specifications of the Borough in an efficient and safe manner.
 - ii) Following all current and accepted arboricultural standards and practices and abiding by all current and applicable safety standards relating to tree care operations.
 - iii) Reporting any tree-related hazards or other problems immediately to the Borough.

6. *Community Volunteers*

- a) Members of related boards and committees are residents of the Borough and serve on a volunteer basis.

7. *Other Borough Departments, Boards & Commissions*

- a) Other Borough departments, boards and commissions assist the Shade Tree Program to the extent that they administer and implement Borough ordinances, policies and procedures that directly or indirectly relate to the protection and management of public and private trees.

8. Property Owners

- a) Private property owners assist Tenafly's Shade Tree Program to the extent that they:
 - i) Notify the Borough of problems and service requests for public trees (*see Tree Service Request Procedures below*).
 - ii) Are asked to irrigate and protect new public trees planted adjacent to their properties.
 - iii) Are encouraged to plant and properly care for trees on private property.
 - iv) Are required to comply with the Borough's *Tree Removal and Protection* ordinance.

9. Public Utilities

- a) Public utility firms are responsible for minimizing conflicts between trees and their facilities.
- b) Specifically, public utilities and their contractors are responsible for:
 - i) Abiding by all applicable ordinances.
 - ii) Keeping the Borough informed of their work plans and schedules.
 - iii) Exercising reasonable diligence in the installation and maintenance of their facilities so as to avoid damage to public and private trees.
 - iv) Not removing any tree without prior approval of the Borough or its owner.
 - v) Following all current and accepted arboricultural standards and practices.
 - vi) Assisting Borough personnel and contractors in completing tree removal and maintenance work around their facilities, where necessary.

**CURRENT
ORDINANCES
& RESOLUTIONS**

The following portions of the Borough Code authorize, govern or relate to Tenafly's Shade Tree Program:

1. Chapter XXVI, *Trees*, of the *Revised General Ordinances of the Borough of Tenafly*, which provides for the care and protection of public trees, and which regulates the removal and requires the protection of trees on private lands during land development and construction projects (*see page 39*).
2. Chapter XXXV, *Land Development Regulations*, Article VII, *Subdivision and Site Plan Review*, Section 718 of the *Revised General Ordinances of the Borough of Tenafly*, which requires subdivisions to include the planting of shade trees.
3. Chapter XXXV, *Land Development Regulations*, Article VII, *Subdivision and Site Plan Review*, Section 719 of the *Revised General Ordinances of the Borough of Tenafly*, which requires site plans to include landscaping and screening.

**TREE
SERVICE
REQUEST
PROCEDURES**

Requests for the pruning, removal, planting, or other treatment of public trees are initiated by adjacent property owners, Borough personnel and other sources. All requests are processed in the following manner:

1. Service Requests and complaints relating to public trees are received by or forwarded to the Department of Public Works.
2. Service Requests are prioritized and scheduled for inspection according to the nature of the request and the information provided by the requester.
3. All trees are inspected by the Director of Public Works, the General Foreman, or the Shade Tree Foreman to:
 - a) Determine the validity of the request or complaint.
 - b) Determine the nature of the work necessary to correct the issue.
 - c) Determine the degree of hazard, if any, and the urgency with which corrective work must be completed.

**2014 – 2018
OBJECTIVES**

- d) Determine whether the work can be completed by in-house crews or requires an outside contractor.
- 4. The requester is informed of the inspection findings, the action to be taken, and the anticipated response time via phone call or letter.
- 5. Work orders for any pruning, removal or other work deemed necessary are created and scheduled for completion by the Department of Public Works, a Borough contractor, Bergen County crews, or public utility firms, as appropriate and according to the priority level set.
- 6. Upon satisfactory completion, the Service Request is closed out and records of all actions taken are maintained by the Department of Public Works.

1. Ongoing Administrative Programs

a) *2014 – 2018*

- i) Continue implementing all administrative programs, policies and procedures already in effect.

2. Review and Revision of "Trees" Ordinance

a) *January – June 2014*

- i) Continue to review and develop revisions to Chapter 26, Sections 1.1 through 1.14 of the Borough Code, *Trees*, which regulates the removal of trees on private property, to address issues and deficiencies noted in past enforcement.

b) *July – September 2014*

- i) Submit proposed changes to the ordinance to the Borough Attorney and Mayor and Council for review and make additional revisions, as necessary.

c) *October – December, 2014*

- i) Advertise, adopt and begin enforcing the revised ordinance.



Budget & Resources

OVERVIEW

The following is a summary of the annual resources available to Tenafly's Shade Tree Program, on average, in recent years.

Objectives contained within this Plan may require resources beyond those currently available. The Borough's ability to fully satisfy these objectives may be dependent upon its ability to secure additional funding through external sources and grant programs.

2008 – 2013 GRANTS RECEIVED

During the 2008 – 2013 management period, the Borough of Tenafly received the following grants to assist its Shade Tree Program:

1. A Green Communities Challenge Grant from the NJ Forest Service in the amount of \$3,000.00, which was used to help fund preparation of this Community Forestry Management Plan.
2. A 2011 grant from Walmart through the Sustainable Jersey program to update the Borough's *Environmental Resource Inventory*, which was originally prepared in 2002 and documents the presence of a wide variety of both native and exotic tree, shrub and herbaceous plant species in the Borough.

EMPLOYEE SALARY & WAGES

Director of Public Works
 General Foreman
 Shade Tree Foreman
 Other Department of Public Works personnel
 Borough Administrator
 Clerical staff

Subtotal (total salary and benefits prorated by percent of time dedicated to the Shade Tree Program)

\$578,250.00

OPERATIONS

Training & professional development
 Contracted services
 Memberships & subscriptions
 Other miscellaneous operating expenses

Subtotal

\$4,300.00

BOROUGH EQUIPMENT

- (1) 65-foot aerial bucket truck
- (2) Chippers
- (1) Chip truck
- (1) Stump grinder
- (1) Roll off container for logs
- (1) Dump truck
- (1) Garbage truck

	(2) Front end loaders with claw attachment (1) SCAT windrow turner (1) Royer soil shredder for composting leaves (1) 400 gallon watering tank with hose (1) Resistograph Chain saws, pole saws, small tools, and Maibo pruning equipment.	
	<i>Subtotal (estimated annual value based on value amortized over 5 – 15 year service life, plus annual maintenance, etc. and prorated by percent of time used by the Shade Tree Program)</i>	<i>\$77,200.00</i>
TREE PLANTING	Cost of trees purchased Ancillary materials	
	<i>Subtotal (primarily funded through the Tree Replacement Trust Fund)</i>	<i>\$15,000.00</i>
TREE WASTE RECYCLING	Compost facility operation Tub grinder rental for leaf composting Tipping fees at commercial recycling facilities	
	<i>Subtotal</i>	<i>\$40,000.00</i>
VOLUNTEER SERVICES	(none)	
	<i>Subtotal (0 hrs per year average @ \$21.79)</i>	<i>\$0.00</i>
<hr/>		
TOTALS	<i>Borough Resources</i>	<i>\$714,750.00</i>
	<i>Value of Volunteer Services</i>	<i>\$0.00</i>



Training & Professional Development

TRAINING & PROFESSIONAL DEVELOPMENT GOALS

1. Provide individuals serving Tenafly's Shade Tree Program with sufficient knowledge to make technically sound and effective management decisions.
2. Ensure that tree inspections and hazard evaluations follow accepted standard procedures and that the results are objective, accurate, and consistent.
3. Ensure that all tree maintenance and planting tasks are planned and completed in accordance with the latest technical information and industry standards.
4. Ensure continuity in the overall level of knowledge and expertise within the Shade Tree Program as individuals leave the program and new ones join.
5. Maintain the ISA Certified Arborist credential by the Director of Public Works and Shade Tree Foreman.
6. Satisfy the requirements of the New Jersey Shade Tree & Community Forestry Assistance Act, Training Skills & Accreditation Program without interruption.

EXISTING PROGRAMS, POLICIES & PROCEDURES

1. ***Training Provisions & Funding***
 - a) Training and professional development opportunities in arboriculture and urban forestry continue to be made available to volunteers and employees serving the Borough's Shade Tree Program.
 - b) These training opportunities include CORE Training and Continuing Education as required under the New Jersey Shade Tree & Community Forestry Assistance Act.
 - c) The cost of training is funded by the operating budget of the Department of Public Works.
2. ***Current Expertise, Licenses & Certifications***
 - a) Both the current Director of Public Works and the Shade Tree Foreman are International Society of Arboriculture (ISA) Certified Arborists.
 - b) The current Director of Public Works is a Certified Public Works Manager (CPWM).
3. ***NJ Community Forestry's Training Skills & Accreditation Program***
 - a) At the time this Plan was prepared, the following had satisfied the CORE Training requirements of the New Jersey Shade Tree & Community Forestry Assistance Act Training Skills & Accreditation Program:
 - i) (1) Borough employee
 - ii) (0) Elected Officials
 - iii) (2) Shade Tree Program volunteers
4. ***Recent Training Completed***
 - a) Tree Preservation on Construction Sites through the Rutgers NJAES Office of Continuing Professional Education.
 - b) Municipal Tree Management through the Rutgers NJAES Office of Continuing Professional Education.
 - c) Hazardous Tree Identification through the Rutgers NJAES Office of Continuing Professional Education.

- d) Electrical Hazard Training from ACRT, in cooperation with the Borough of Bergenfield's Shade Tree Department.
- e) Introduction to Pruning Techniques through the Rutgers NJAES Office of Continuing Professional Education.
- f) Tree Planting and Installation through the Rutgers NJAES Office of Continuing Professional Education.

**CURRENT
TRAINING
NEEDS**

The Borough has evaluated its existing programs and personnel and identified the following areas in which training is currently needed or should be considered.

1. NJ Community Forestry CORE Training for additional individuals.
2. Ongoing tree hazard identification and evaluation for Borough employees.
3. Young tree structural pruning in accordance with ANSI A300 Standards for encouraging the development of structurally sound and non-conflicting branch structure in young trees for Department of Public Works personnel.
4. Ongoing electrical hazard awareness and tree worker safety training for Department of Public Works personnel.

**2014 – 2018
OBJECTIVES**

1. Ongoing Training Programs

a) *2014 – 2018*

- i) Continue implementing the existing programs, policies & procedures listed above consistently and in a manner that maximizes the number of individuals who increase their level of expertise.
- ii) Attend training programs, in addition to the following objectives, that address the Current Training Needs listed above as appropriate programs become available.

2. NJ Community Forestry's Training Skills & Accreditation Program

a) *January – March, Annually*

- i) Review training needs versus upcoming training opportunities.
- ii) Ensure that the Borough will accumulate the necessary continuing education credits as required under the New Jersey Shade Tree & Community Forestry Assistance Act by the end of each calendar year.
- iii) Schedule NJ Community Forestry CORE Training for additional individuals, as necessary to maintain compliance with New Jersey Shade Tree & Community Forestry Assistance Act requirements.

b) *January – December 2015*

- i) Provide New Jersey Community Forestry CORE training for at least one additional Department of Public Works employee.

3. Young Tree Structural Pruning Training

a) *January – December 2016*

- i) Train at least two Department of Public Works employees in specialized shade tree pruning techniques at an in-depth, hands on program that emphasizes developmental pruning for young trees in accordance with ANSI A300 standards to promote a structurally sound trunk and crown form, minimize conflicts with roads and utilities, and minimize the need for severe pruning as the trees mature.

4. *Tree Hazard Evaluation Training*

a) *January – December 2017*

- i)** Train at least two Department of Public Works employees who are responsible for completing tree inspections to further advance their skills in identifying and evaluating the severity of potential tree hazards using the latest information and techniques through an advanced level seminar. This training should include methods for determining the extent of internal decay.

5. *Electrical Hazard Awareness Training*

a) *January – December 2018*

- i)** Provide additional training for at least two Department of Public Works employees that regularly complete tree maintenance work to recognize and avoid electrical hazards during tree care operations in accordance with current industry standards via an appropriately sanctioned training program.



Public Education, Awareness & Outreach

PUBLIC EDUCATION, AWARENESS & OUTREACH GOALS

1. Increase and maintain public interest and support for Tenafly’s Shade Tree Program.
2. Encourage the planting, protection and proper care of trees on private property for the benefit of the entire community.
3. Educate the public in the value of environmental stewardship.

EXISTING PROGRAMS, POLICIES & PROCEDURES

1. **Arbor Day**
 - a) Arbor Day celebrations have been held annually in Tenafly since 2003.
 - b) Annual Arbor Day programs are organized by the Director of Public Works and typically involve proclamations by the Mayor and Council, and celebrations and distribution of tree seedling at Borough elementary schools.
2. **Tree City USA**
 - a) Tenafly has been designated as a Tree City USA through the National Arbor Day Foundation every year since 2003.
 - b) The Borough received Tree City USA Growth Awards in 2011 and 2012.
3. **Media**
 - a) Program announcements and informative articles are periodically published in the Borough of Tenafly Newsletter, which is posted on the Borough’s official internet website at www.tenafly.org.
4. **Education & Outreach**
 - a) The Borough distributes International Society of Arboriculture brochures on topics such as the benefits of trees, avoiding damage to trees during construction, and others in conjunction with tree removal and building permit applications.

2014 – 2018 OBJECTIVES

1. **Ongoing Public Education, Awareness & Outreach Programs**
 - a) **2014 – 2018**
 - i) Continue all existing public education, awareness and outreach programs already in effect.
2. **Annual Arbor Day Programs**
 - a) **January – April, Annually**
 - i) Continue to organize and conduct annual Arbor Day celebrations.
 - Seek assistance from local civic groups, the Board of Education, local businesses, and others to help spread the workload and maximize exposure and attendance at the programs.
 - Vary the location, activities, and target audience each year to help increase interest and support for the Borough’s Shade Tree Program, awareness of the benefits of

trees, and active environmental stewardship.

3. Tree City USA

a) October – December, Annually

- i)** Continue to submit the annual application for designation as a Tree City USA through the National Arbor Day Foundation.
- ii)** Prepare and submit the application for Tree City USA Growth Awards when eligibility requirements have been met.
- iii)** Continue to advertise the designation throughout the Borough and in public relations materials (road signs, plaques, truck decals, stationary logo, etc.).



TREE INVENTORY & ASSESSMENT GOALS

1. Provide accurate baseline information upon which sound management decisions can be based.
2. Provide data upon which proactive tree planting, maintenance and other implementation programs can be established and improved.
3. Provide a system for accessing and utilizing inventory data to improve the efficiency and effectiveness of day-to-day management activities.
4. Monitor and evaluate changes in the tree population and the impact of management activities over time.
5. Maintain treatment histories for individual trees, where appropriate.

EXISTING PROGRAMS, POLICIES & PROCEDURES

1. **Existing Tree Inventory**
 - a) The Borough currently lacks a comprehensive inventory of its public and private tree resources.
 - b) The Borough's *Environmental Resource Inventory* (prepared in 2002 and updated in 2011) documents the presence of a wide variety of both native and exotic tree, shrub and herbaceous plant species in the Borough.
 - c) A current assessment of Tenafly's street tree population and how it has changed over the past five years is provided on page 6.

2014 – 2018 OBJECTIVES

1. **Street Tree Inventory & Assessment**
 - a) *October 2015 – June 2016*
 - i) Develop plans to conduct an inventory and assessment of Tenafly's public street trees. In developing these plans, consideration must be given to:
 - The level of inventory that is necessary and appropriate – a complete, self-updating computerized inventory of every individual tree and available planting site, versus a less expensive, but non-updateable sample-based inventory, versus a simple, one time survey designed to identify general trends and needs as well as potentially hazardous trees that require immediate attention.
 - Whether to inventory trees in Borough parks and on Borough properties in addition to street trees.
 - If trees other than street trees are to be inventoried, when, to what extent and by what means.
 - The data parameters to be collected and the evaluation criteria to be used.
 - If a complete, computerized inventory is selected, who will maintain and update the computerized data and how it will be used.
 - Sources of funding for completing the inventory including existing budgets, grants, "creative" sources such as packaging the tree inventory with a bond issue for a sidewalk repair or a hazard mitigation program, etc.
 - b) *July – September 2016*
 - i) If a sample or survey based assessment is selected, develop the appropriate sampling scheme or observation methods.
 - ii) If a complete, computerized inventory is selected, investigate computer systems and

software for storing and using the inventory data. Primary considerations in selecting a system will be its ability to:

- Store and handle records for all of Tenafly's current and future public trees and their maintenance histories.
- Integrate the tree inventory with a system for recording, prioritizing and scheduling service requests and maintaining records of the work completed.
- Produce a variety of data summaries at any time in the future so that effective management decisions can be based on current and sound information and so that progress toward the Overall Program Goals of this Plan can be routinely monitored and evaluated.
- Track, analyze, and report on miscellaneous items such as sidewalk damage, the success of sidewalk damage prevention techniques, the difference in long-term maintenance needs and costs between various species and cultivars, etc.
- Integrate with the Borough's existing record systems and maintain records of Resistograph testing completed on individual trees.
- Improve the overall efficiency and effectiveness of the Shade Tree Program.

c) *October – December 2016*

- i) Develop procedures and criteria for collecting data in a manner that is appropriate for the type of inventory selected. In addition to the standard parameters (tree location, species, diameter, condition, etc.), the inventory should also include:
 - Identification of existing tree hazards and prioritized pruning and removal needs.
 - An inventory of vacant planting sites.
 - An inventory of damaged sidewalks and curbs.
- ii) Hire a consultant to complete data collection.

d) *January – March 2017*

- i) If a computerized inventory is selected, purchase, install, and setup the selected computer system and software and train the appropriate people in its use.

e) *April – December 2017*

- i) Complete field data collection and entry.

2. *Tree Inventory & Assessment Report & Utilization*

a) *January – March 2018*

- i) If a sample or survey based assessment is selected, complete the necessary statistical calculations to derive estimated totals for the appropriate parameters.
- ii) Produce appropriate charts and reports that summarize and document the current state of the tree population. Use these reports as a baseline to which future reports can be compared and upon which the impact of management activities can be evaluated.
- iii) Begin integrating the inventory findings into ongoing planning decisions and daily management activities.



TREE HAZARD MANAGEMENT GOALS

1. Minimize the risk of trees to public safety.

EXISTING PROGRAMS, POLICIES & PROCEDURES

1. *Tree Hazard Identification*

- a) Potentially hazardous conditions have been or are currently identified via:
 - i) Service requests from adjacent property owners.
 - ii) Observations by Department of Public Works employees and other Borough employees during the course of their daily routines.
 - iii) Post-storm and other periodic surveys.

2. *Tree Hazard Abatement Procedures*

- a) When trees in potentially compromised condition are identified, the Director of Public Works, the General Foreman, or the Shade Tree Foreman evaluates them and determines the need for pruning, removal or other treatments to correct the issue.
- b) Work orders for the appropriate corrective work are created, prioritized, scheduled, and completed according to the degree of hazard potential.

3. *Tree Hazard Record-Keeping*

- a) Records of all determinations made and actions taken, from initial inspection through work completion, are maintained by the Department of Public Works.

2014 – 2018 OBJECTIVES

1. *Ongoing Tree Hazard Management Programs*

- a) *2014 – 2018*
 - i) Continue to implement all existing tree hazard management programs, policies and procedures.
 - ii) Continue to address hazard abatement needs as they are identified in order of priority.

2. *Tree Hazard Evaluation Training*

- a) *See Training & Professional Development, Objective #4.*

3. *Completion of Existing Priority Maintenance Work*

- a) *January – December 2018*
 - i) Complete all high priority pruning and removal work identified by the Tree Inventory & Assessment.
 - To the extent possible, this work will be completed by the Department of Public Works.
 - The Borough's ability to satisfy this objective, however, may depend upon external funding to hire contractors to supplement the Department of Public Work's efforts.

TREE PLANTING GOALS

1. Increase and maintain the public tree population at maximum practical stocking (the total number of shade trees that is appropriate and which the Borough can effectively manage, given available resources).
2. Maximize stability in the tree population by improving and maintaining species and age diversity.
3. Minimize future maintenance needs and costs.
4. Minimize conflicts between trees and sidewalks, utilities and other public and private fixtures.
5. Improve aesthetic appeal, seasonal variation and physical benefits to adjacent properties and the Borough overall.

EXISTING PROGRAMS, POLICIES & PROCEDURES

1. ***Planting Jurisdiction***
 - a) The Borough currently plants trees:
 - i) In Borough rights-of-way.
 - ii) On Borough-owned properties.
 - iii) In Borough parks.
 - b) The Borough will plant street trees on private property where there is insufficient space within the right-of-way and the adjacent property owner grants permission.
2. ***Planting vs. Removal Ratio***
 - a) The ratio of public trees planted versus removed over the past five years has continued to result in a net decrease in the public tree population.
 - i) In recent years, the Borough has planted an average of 50 public trees per year.
 - ii) The Borough has removed, or lost to storms, over 75-100 public trees per year during this period.
3. ***Planting Location & Tree Placement***
 - a) Planting locations are identified via:
 - i) A list of trees removed over the past ten years.
 - ii) Requests for street trees by adjacent property owners.
 - b) Trees are placed:
 - i) In a manner that will minimize future conflicts with above and belowground utilities, structures, hardscape fixtures, and traffic.
 - ii) The Borough will plant street trees on private property where there is insufficient space within the right-of-way and the adjacent property owner grants permission.
 - iii) In a manner that is appropriate for the design and intended use of the area.
 - c) Street tree planting locations are marked by the Shade Tree Foreman prior to planting for the approval of the adjacent property owner.
4. ***Species Selection***
 - a) Species are currently selected:

- i) By the Director of Public Works and/or the Shade Tree Foreman.
- ii) With input from the adjacent property owner.
- b) Species are selected with consideration to:
 - i) Increasing species diversity within the Borough street tree population.
 - ii) Available growing space and above and belowground restrictions at each site.
 - iii) Insect and disease resistance.
 - iv) Past performance in Tenafly and neighboring communities.

5. *Tree Supply & Installation*

- a) New trees are typically purchased and planted by the Department of Public Works.

6. *Post-Planting Care*

- a) The post-planting maintenance of new public trees is provided primarily by Department of Public Works personnel and includes:
 - i) Irrigation twice per week.
 - ii) Stake removal after one year.
 - iii) Supplemental irrigation by adjacent property owners.
- b) Trees planted in the downtown area were provided bio-stimulant and fertilizer treatments for a few years after planting.
- c) Trees that the Borough plants on private property become the responsibility of the property owner at the time of planting. Proper watering, mulching, guy and stake removal, and other care and maintenance responsibilities for these trees are explained by Department of Public Works personnel at the time of planting.

7. *Funding & Sources*

- a) The cost of public tree planting is currently funded through the *Tree Replacement Trust Fund*.

**2014 – 2018
OBJECTIVES**

1. *Ongoing Tree Planting Programs*

- a) *2014– 2018*
 - i) Continue implementing all existing tree planting programs where appropriate and with changes dictated by the following objectives.

2. *Annual Tree Planting Program Funding*

- a) *2014 – 2018*
 - i) Continue to stress to the Mayor and Council the critical importance of consistent annual replanting to reestablish and perpetuate the Borough’s public tree resource.
 - ii) Support annual budget requests with lists of tree planting requests from Borough residents, lists of vacant planting sites identified by the tree inventory and assessment, charts of overall tree stocking levels, and the benefits of trees in reducing energy consumption and improving air quality.
- b) *October – December, annually*
 - i) Investigate the availability of New Jersey Community Forestry *Community Stewardship Incentive Program* (CSIP) grants, as well as other community development, transportation, and similar grant programs, for funding Borough tree planting projects.
 - ii) When available, apply for grant funding to supplement the Borough’s tree planting budget.

- c) *January – June 2016*
 - i) Revisit and reevaluate the feasibility of establishing an Adopt-A-Tree program and/or Memorial Tree Planting program through which residents may contribute money toward the planting of trees adjacent to their property, or elsewhere in the Borough.
- d) *July – December 2016, and continuously thereafter*
 - i) If deemed feasible and desirable, establish the Adopt-A-Tree and/or Memorial Tree program(s) with consideration to:
 - How contributions will be accepted by the Borough and how the money will be held and spent.
 - What percentages of the donations will be used for maintenance of the trees.
 - Advertising the program(s) to ensure sufficient participation to keep the program(s) self-sufficient.
 - Publically recognizing those that contribute.
 - ii) Once established, advertise and implement the Adopt-A-Tree and/or Memorial Tree programs on a continuous basis.

3. *Street Tree Stocking Guidelines*

- a) *January – March 2018*
 - i) Using the Street Tree Inventory data, calculate “maximum practical stocking” – the maximum number of public shade trees that the Borough can effectively manage in accordance with all elements of this Plan, given available resources.
 - ii) Calculate the number of trees that must be planted each year to achieve maximum practical stocking within 10, 20, 30, and 40 years with realistic allowances for existing tree mortality, transplant mortality, etc.
 - iii) Establish a feasible target date for achieving maximum practical stocking based on these calculations. Although the tendency is to plant more trees faster, achieving maximum practical stocking over a longer period of time will result in more age diversity and more stability in the tree population over the long term.
 - iv) Establish progress goals for increasing stocking during each five-year management period to maintain consistent progress toward the long-term stocking goal.
- b) *March 2018, and continuously thereafter*
 - i) Design and complete planting programs in accordance with the stocking goals and planting rates established.

4. *Street Tree Species Composition Guidelines*

- a) *January – March 2018*
 - i) Using the Street Tree Inventory data, establish a long-term goal for an optimum street tree species mix that provides sufficient genus and species diversity, insect and disease resistance, etc.
 - No single genus should comprise more than 10%-20% of the street tree population.
 - No single species should comprise more than 5%-10% of the street tree population.
 - A variety of improved, insect and disease resistant cultivars should be favored over historically problematic species.
 - ii) Establish intermediate progress goals for altering the existing street tree species composition by the end of each five-year management period (e.g. reducing Norway maples by 5% by 2020, keeping the number of Callery pears below 5%, etc.) to help maintain consistent progress toward the long-term goal.
- b) *March 2018, and continuously thereafter*
 - i) Design and complete planting programs in accordance with the goals set.
 - ii) Vary the species planted from year to year to provide species diversity over all age classes and throughout the entire Borough.

TREE MAINTENANCE GOALS

1. Improve and maintain the long-term health and structural condition of the Borough's public tree population.
2. Maximize the service life of existing trees.
3. Protect public safety.
4. Maximize the cost-efficiency of tree maintenance activities.
5. Optimize the balance between the benefits that tree trees provide and the cost of maintaining them.
6. Respond promptly and effectively to resident service requests and complaints.

EXISTING PROGRAMS, POLICIES & PROCEDURES

1. ***In-House Crews***
 - a) Tenafly's public trees are maintained by the Department of Public Works, Shade Tree Division. Shade Tree Division personnel includes:
 - i) Two employees dedicated full-time to tree maintenance.
 - ii) Other Department of Public Works employees who assist in completing tree maintenance work, as necessary.
 - b) Department of Public Works personnel currently complete approximately:
 - i) 100% of all tree pruning work
 - ii) 90% of all tree removal work
 - iii) 100% of all stump removal work
 - iv) 100% of all emergency tree work
 - c) The Department of Public Works is currently equipped with:
 - i) (1) 65-foot aerial bucket truck
 - ii) (2) Chippers
 - iii) (1) Chip truck
 - iv) (1) Stump grinder
 - v) (1) Roll off container for logs
 - vi) (1) Dump truck
 - vii) (1) Garbage truck
 - viii) (1) Front end loader with claw attachment
 - ix) (1) SCAT windrow turner
 - x) (1) Royer soil shredder for composting leaves
 - xi) (1) 400 gallon watering tank with hose
 - xii) (1) Resistograph
 - xiii) Chain saws, pole saws, small tools, and Maibo pruning equipment.
2. ***Private Contractors***
 - a) Private tree maintenance firms are occasionally hired to complete tree removal work,

generally only when a crane or other special equipment is required.

- b) Contractors currently complete approximately:
 - i) 0% of all tree pruning work
 - ii) 10% of all tree removal work, primarily when specialized equipment or personnel are required.
 - iii) 0% of all stump removal work
 - iv) 0% of all emergency tree work

3. *Inter-Local & Mutual Assistance Agreements*

- a) Department of Public Works crews and Borough contractors cooperate with Public Service Electric & Gas Company crews when pruning and removing trees near their electrical lines.

4. *Scheduled Maintenance Programs*

- a) Currently, the Borough does not systematically prune all public street trees on a rotation basis.
- b) The Department of Public Works periodically completes crown-raising pruning on all trees on streets scheduled for resurfacing to ensure sufficient clearance.

5. *Work Identification, Prioritization, Scheduling & Record-Keeping*

- a) Currently, tree maintenance needs are identified primarily via:
 - i) Service Requests from adjacent property owners.
 - ii) Observations by Department of Public Works and other Borough employees during the course of their daily routines.
 - iii) Post-storm and other periodic inspections.
- b) All work needs identified are scheduled and completed in order of priority.
- c) Records of tree maintenance are maintained by the Department of Public Works.

6. *Tree Removal*

- a) It is the Borough's policy not to remove live public trees unless they pose a threat to public safety; trees are generally not removed for nuisance or convenience issues.
- b) In 2008 – 2010 the Borough removed an average of 75 trees per year. This number increased somewhat in 2011 – 2012 due to the extent of damage to trees during severe storms.

7. *Plant Health Care & Specialty Treatments*

- a) Specialty treatments such as insect and disease controls, fertilization, and cabling and bracing are generally not completed on public trees.
- b) Previously, trees in the downtown area were provided bio-stimulant and fertilizer treatments after planting.

8. *Sidewalk Maintenance*

- a) By ordinance, property owners are responsible for maintaining public sidewalks adjacent to their property.
- b) For the past twelve years, the Borough has allocated available monies to a sidewalk replacement program. Under this program, the Borough is replacing entire stretches of sidewalk rather than individual slabs. Initial priority was given to sidewalks adjacent to Borough properties and near schools and subsequently began focusing on other areas throughout the Borough.
- c) The Department of Public Works minimizes the impact of sidewalk repair work on Borough trees by completing limited root pruning when appropriate, re-routing sidewalks, and other

**2014 – 2018
OBJECTIVES**

tree-friendly means.

- d) The Borough strives to select species and place street trees in a manner that will minimize future conflicts between trees and sidewalks.

9. Funding

- a) The Department of Public Works operating budget typically covers the cost of tree maintenance work completed by its crews and private contractors.

1. Ongoing Tree Maintenance Programs

a) *2014 – 2018*

- i) Continue implementing all existing tree maintenance programs, policies and procedures on a regular basis.

2. Young Tree Structural Pruning Training

see Training & Professional Development, Objective #3

3. Structural Pruning for Young Trees

a) *July – December 2015*

- i) Develop a project to provide pruning to improve the structure of trees planted in recent years. Such pruning is a cost effective way to ensure the development of good form and sound structure as trees mature, minimize future pruning needs, and minimize the development of potentially hazardous structural defects.
- ii) Development of this project will require:
 - Scouting, identifying, and prioritizing the trees to be pruned. Generally, trees 3" – 6" in diameter will be targeted with priority given to trees in higher use areas and/or which exhibit the greatest need.
 - Developing technically sound pruning objectives and specifications in accordance with the ANSI A300 Pruning Standard for "Structural" / "Young Tree Pruning."
 - If appropriate, developing specifications for correcting root collar disorders such as girdling roots, deep planting, etc.
 - Ensuring that the appropriate Department of Public Works employees have received the necessary training to successfully complete this specialized type of pruning.

b) *January – December 2016*

- i) Complete the Structural Pruning project for recently planted trees.

**TREE WASTE
RECYCLING
GOALS**

1. Minimize the cost of tree waste disposal to the Borough.
2. Provide beneficial recycled products for use on Borough properties and by Borough residents.

**EXISTING
PROGRAMS,
POLICIES
& PROCEDURES**

1. **Recycling Facilities**
 - a) The Borough owns one composting facility, which is operated by the Department of Public Works.
 - b) This facility is used to store, process, and distribute wastes and recycled materials generated by the Borough’s Shade Tree Program.
2. **Material Processing, Use & Distribution**
 - a) *Leaves*
 - i) Leaves are collected and delivered to the Borough’s facility for composting by the Department of Public Works.
 - ii) The resulting compost is:
 - Used as a soil conditioner on Borough properties.
 - Made available to Borough residents at no cost.
 - b) *Wood Chips*
 - i) Wood chips generated by Department of Public Works crews are delivered to and stockpiled at the compost facility.
 - ii) These wood chips are:
 - Used as playground bedding and mulch on Borough properties.
 - Made available to Borough residents at no cost.
 - Excess wood chips are given to local contractors at no cost.
 - c) *Bulk Wood*
 - i) Bulk wood generated by Department of Public Works crews is:
 - Cut and left at job sites for use as firewood by area residents.
 - Delivered to a commercial recycling facility for processing into decorative mulch and other recycled wood products.
3. **Recycling Income**
 - a) Currently, no income is derived from the sale of tree waste materials or recycled products.

**2014 – 2018
OBJECTIVES**

1. **Ongoing Tree Waste Recycling Programs**
 - a) *2014 – 2018*
 - i) Continue implementing all existing tree waste recycling programs, policies and procedures.

**TREE CARE
DISASTER PLAN
GOALS**

1. Minimize tree-related damage and/or widespread tree losses caused by storms and other forces via technically sound and responsible planting, preventive maintenance and hazard identification and abatement.
2. Provide the Borough with the resources to repair or replace widespread tree damage or losses.
3. Enable the Borough to respond immediately to tree-related emergencies and disasters in a prompt and effective manner.

**EXISTING
PROGRAMS,
POLICIES
& PROCEDURES**

1. ***Tree Emergency & Disaster Threats***
 - a) The Borough of Tenafly continues to recognize limb failures and tree uprooting during severe weather as the primary wide-scale threat to its trees.
 - b) In addition to the threat to the trees themselves, the widespread structural failure of trees poses a serious threat to electrical service, communications, and the Borough’s ability to provide critical emergency services.
 - c) The risk of widespread tree damage and losses to biotic threats is currently considered moderate, but manageable, through increased species diversity and cultivar selection. Currently, there is particular concern regarding:
 - i) Asian longhorned beetle due to Bergen County’s proximity to infestation centers in New York City, Jersey City and Union County, as well as heavily-travelled highways.
 - ii) Bacterial leaf scorch and its apparent spread throughout New Jersey, though it has not yet been identified in Tenafly.
 - iii) Emerald ash borer, which is expected to spread from the Great Lakes area to much of the eastern United States.
2. ***Wildfire Protection***
 - a) Wildfire is not considered to be a significant threat to public tree resources in the Borough of Tenafly at this time.
3. ***Existing Emergency & Disaster Plans***
 - a) The Borough’s *Emergency Operations Plan* outlines procedures for vital services and cooperative efforts between all Borough departments and neighboring communities during an emergency or disaster.
 - b) The Borough currently lacks a formal plan for the repair and replacement of widespread tree damage and losses beyond initial emergency response efforts. It is believed, however, that technically sound and responsible planting, preventive maintenance, and hazard identification and abatement efforts described elsewhere in this Plan will, over the long term, help reduce the Borough’s vulnerability to certain catastrophic tree losses.
4. ***Emergency Response***
 - a) The Department of Public Works, in cooperation with the Office of Emergency Management, local utilities, and contractors, is responsible for clearing trees and debris to open roadways and permit restoration of electrical service and communications.
 - b) The Department of Public Works is on 24-hour call to respond to tree-related emergencies.

1. *i-Tree Storm Assessment*
 - a) *January – March 2017*
 - i) In the event that budget restrictions continue to prevent completion of a Borough-wide tree inventory and assessment (*see Tree Inventory & Assessment, Objective #1*), develop plans to prepare documentation of the Borough’s public tree resource that can be used to evaluate future storm losses utilizing the i-Tree Storm software utility (Storm Damage Assessment Protocol Utility).
 - ii) Development of these plans will include identification of primary vulnerabilities, sample requirements, identification of sample locations, and clarification of data collection methods to ensure compatibility with the i-Tree Storm system.
 - b) *April – December 2017*
 - i) Complete field data collection and data entry in accordance with the plans developed.
 - c) *January – March 2018*
 - i) Run the i-Tree Storm analysis on the data collected.
 - ii) Store the data and analysis for future use in determining the extent of tree and monetary losses following future storms.



PLAN PREPARATION & EVALUATION GOALS

1. Ensure that the Shade Tree Program continues to follow a well-defined, consistent and efficient course of action toward its overall goals.
2. Provide a means of continually evaluating the success of past programs and activities and making adjustments to address changing conditions and needs.
3. Remain in compliance with and eligible for the benefits of the New Jersey Shade Tree & Community Forestry Assistance Act.

EXISTING PROGRAMS, POLICIES & PROCEDURES

1. Preparation of this third five-year Community Forestry Management Plan was the cooperative effort of the Tenafly Department of Public Works and their consulting arborist.
2. Goals and objectives contained in this Community Forestry Management Plan are based on the Borough's implementation of its 2003 – 2012 Plans and ongoing review of its progress.
3. Preparation of this Plan was made possible through a Green Communities Challenge Grant from the New Jersey Forest Service and the in-kind services of Borough employees.

2014 – 2018 OBJECTIVES

1. **Annual Program Evaluation**
 - a) *December, Annually*
 - i) Evaluate the success of the year's activities and accomplishments relative to the goals and objectives contained within this Plan.
 - ii) Adjust programs and procedures, as necessary, based upon the evaluation.
 - iii) Prepare and submit the Annual Accomplishment Report to the New Jersey Forest Service in accordance with the requirements of the New Jersey Shade Tree & Community Forestry Assistance Act.
2. **Five-Year Evaluation**
 - a) *January – March 2018*
 - i) Evaluate the success of all objectives completed to date.
 - ii) Evaluate progress toward the overall goals of the Shade Tree Program.
 - iii) Begin formulating new objectives and adjustments to existing policies, programs and procedures, if necessary to address changing needs, for the 2019 – 2023 management period.
3. **2019 – 2023 Management Plan Development**
 - a) *April – September 2018*
 - i) Finalize new objectives and adjustments to existing policies, programs and procedures for the 2019 – 2023 management period.
 - ii) Prepare and submit a Community Forestry Management Plan for the 2019 – 2023 management period.
 - b) *October – December 2018*
 - i) Obtain Plan approval from the New Jersey Community Forestry Council.



Summary of 2014 – 2018 Objectives

Objectives / Tasks	2014	2015	2016	2017	2018
PROGRAM ADMINISTRATION					
1. <i>Ongoing Administrative Programs</i>	[Solid black bar across all years]				
<input type="checkbox"/> Continue implementing all existing administrative programs, policies and procedures already in effect (p.14, #1.a.i)	[Solid black bar across all years]				
2. <i>Review and Revision of 'Trees' Ordinance</i>					
<input type="checkbox"/> Continue to review and develop revisions to Chapter 26 to address deficiencies noted in past enforcement (p.14, #2.a.i)	[Solid black bar]				
<input type="checkbox"/> Submit proposed changes to the Borough Attorney and Mayor & Council for review and make additional changes, as necessary (p.14, #2.b.i)		[Solid black bar]			
<input type="checkbox"/> Advertise, adopt and begin enforcing the revised ordinance (p.14, #3.b.i)			[Solid black bar]		
TRAINING & PROFESSIONAL DEVELOPMENT					
1. <i>Ongoing Training Programs</i>	[Solid black bar across all years]				
<input type="checkbox"/> Continue all existing training programs on a regular basis and maximize the number of individuals that increase their level of practical knowledge; Attend additional training programs that address Current Training Needs as appropriate programs become available (p.18, #1.a.i-ii)	[Solid black bar across all years]				
2. <i>NJ Community Forestry Training Skills & Accreditation Program</i>					
<input type="checkbox"/> Review training needs and schedule training, as necessary, to accumulate sufficient CEU's to maintain Approved Status (p.18, #2.a.i-iii)	[Solid black bar]	[Solid black bar]	[Solid black bar]	[Solid black bar]	[Solid black bar]
<input type="checkbox"/> Provide CORE Training for at least one Department of Public Works employee (p.18, #2.b.i)		[Solid black bar]	[Solid black bar]		
3. <i>Young Tree Structural Pruning Training</i>					
<input type="checkbox"/> Train at least two Department of Public Works employees via an in-depth, hands-on program in pruning young trees to develop a structurally sound form, minimize conflicts and minimize the need for severe pruning as they mature (p.18, #3.a.i)			[Solid black bar]	[Solid black bar]	
4. <i>Tree Hazard Evaluation Training</i>					
<input type="checkbox"/> Train at least two Department of Public Works employees to further advance his skills in recognizing and evaluating potential tree hazards using the latest information and techniques (p.19, #4.a.i)				[Solid black bar]	[Solid black bar]

Objectives / Tasks	2014	2015	2016	2017	2018
TREE HAZARD MANAGEMENT					
1. <i>Ongoing Tree Hazard Management Programs</i> <input type="checkbox"/> Continue all existing tree hazard management programs, policies and procedures; Continue to address hazard abatement needs as they are identified in priority order (p.24, #1.a.i-ii)					
2. <i>Completion of Existing Priority Maintenance Work</i> <input type="checkbox"/> Complete all high priority maintenance work identified by the Tree Inventory & Assessment (p.24, #3.a.i)					
TREE PLANTING					
1. <i>Ongoing Tree Planting Programs</i> <input type="checkbox"/> Continue all existing tree planting programs (p.26, #1.a.i)					
2. <i>Annual Tree Planting Program Funding</i> <input type="checkbox"/> Continue to stress and provide justification for annual budget requests to permit consistent annual replanting to perpetuate the public tree resource. (p.26, #2.a.i-ii) <input type="checkbox"/> Continually investigate the availability of CSIP and other grants for tree planting and prepare and submit applications. (p.26, #2.b.i-ii) <input type="checkbox"/> Reevaluate the feasibility of establishing an Adopt-A-Tree, Memorial Tree Planting, or other cost share program. (p.27, #2.c.i) <input type="checkbox"/> If feasible and desirable, establish, advertise and implement the cost share program on a continuous basis. (p.27, #2.d.i-ii)					
3. <i>Street Tree Stocking Guidelines</i> <input type="checkbox"/> Using updated street tree inventory data, calculate maximum practical stocking for Borough street trees; Establish feasible goals for achieving maximum practical stocking with a suitable age structure within an appropriate time-frame (p.27, #3.a.i-iv) <input type="checkbox"/> Design and complete planting projects in accordance with the stocking goals and planting rates set (p.27, #3.b.i)					
4. <i>Species Composition Guidelines</i> <input type="checkbox"/> Using updated street tree inventory data, establish a long-term goal for optimum species composition in the street tree population; Establish intermediate progress goals for adjusting the existing species composition (p.27, #4.a.i-ii) <input type="checkbox"/> Design and complete planting projects in accordance with the goals set; Plant a variety of species and cultivars and vary the species planted from year to year to maintain species diversity over all age classes (p.27, #4.b.i-ii)					

Objectives / Tasks	2014	2015	2016	2017	2018
TREE MAINTENANCE					
1. <i>Ongoing Tree Maintenance Programs</i>	[Solid black bar across 2014-2018]				
<input type="checkbox"/> Continue all existing tree maintenance programs, policies and procedures on a regular basis (p.30, #1.a.i)	[Solid black bar across 2014-2018]				
2. <i>Structural Pruning for Young Trees</i>		[Solid black bar]			
<input type="checkbox"/> Develop a pruning project for improving the structure of trees planted in recent years; Identify trees to be pruned, develop specifications, and ensure employees have been appropriately trained (p.30, #3.a.i-ii)		[Solid black bar]			
<input type="checkbox"/> Complete the Structural Pruning project (p.30, #3.b.i)			[Solid black bar]		
TREE WASTE RECYCLING					
1. <i>Ongoing Tree Waste Recycling Programs</i>	[Solid black bar across 2014-2018]				
<input type="checkbox"/> Continue all existing tree waste recycling programs, policies and procedures (p.31, #1.a.i)	[Solid black bar across 2014-2018]				
TREE CARE DISASTER PLAN					
1. <i>i-Tree Storm Assessment</i>				[Solid black bar]	
<input type="checkbox"/> If budget restrictions continue to prevent completion of a Borough-wide tree inventory and assessment, develop plans to document the public tree resource in a manner that can be used to evaluate future storm losses utilizing the i-Tree Storm software utility (p.33, #1.a.i-ii)				[Solid black bar]	
<input type="checkbox"/> Complete field data collection and data entry in accordance with the plans developed (p.33, #1.b.i)				[Solid black bar]	
<input type="checkbox"/> Run the i-Tree Storm analysis on the data collected; Store the data and analysis for future use in determining the extent of tree and monetary losses following future storms (p.33, #1.c.i-ii)					[Solid black bar]
PLAN PREPARATION & EVALUATION					
1. <i>Annual Program Evaluation</i>	[Solid black bar]	[Solid black bar]	[Solid black bar]	[Solid black bar]	[Solid black bar]
<input type="checkbox"/> Evaluate the prior year's accomplishments, identify objectives not yet completed, and adjust programs, as necessary; Prepare and submit an <i>Annual Accomplishment Report</i> to NJFS (p.34, #1.a.i-iii)	[Solid black bar]	[Solid black bar]	[Solid black bar]	[Solid black bar]	[Solid black bar]
2. <i>Five-Year Evaluation</i>				[Solid black bar]	
<input type="checkbox"/> Evaluate the Shade Tree Program's accomplishments during the current 5-year management period; Evaluate progress toward the overall goals of the Shade Tree Program; Begin formulating new objectives and program adjustments (p.34, #2.a.i-iii)				[Solid black bar]	
3. <i>2019 – 2023 Management Plan Development</i>					[Solid black bar]
<input type="checkbox"/> Finalize new objectives and program adjustments and prepare and submit a Community Forestry Management Plan for the 2019 – 2023 period (p.34, #3.a.i-ii)					[Solid black bar]
<input type="checkbox"/> Obtain State approval of the 2019 – 2023 Community Forestry Management Plan (p.34, #3.b.i)					[Solid black bar]

**PRIMARY
ORDINANCES**

1. Chapter XXVI, *Trees*, of the *Revised General Ordinances of the Borough of Tenafly*, which provides for the care and protection of public trees, and which regulates the removal and requires the protection of trees on private lands during land development and construction projects

Revised General Ordinances of the Borough of Tenafly

CHAPTER XXVI TREES

26-1 TREE REMOVAL AND PROTECTION.

Prior ordinance history: Ordinance Nos. 97-29, 98-08, 00-11, 01-11, 03-19, 04-19, 04-24, 06-26, 08-01.

26-1.1 Short Title; Purpose.

- a. This section shall be known as the "Tree Removal and Protection Regulations of the Borough of Tenafly."
- b. *Findings and Purpose.* The Borough Council finds: that the preservation, protection and planting of trees aids in the stabilization of soil by the prevention of erosion and sedimentation; reduces stormwater runoff and the potential damage it may create; aids in the removal of pollutants from the air and assists in the generation of oxygen; provides a buffer and screen against noise and pollution; helps to decrease the amount and rate of stormwater runoff and to replenish groundwater supplies; acts to moderate extremes of temperature and to provide shade; aids in the control of drainage and restoration of denuded soil subsequent to construction or grading; provides a haven for birds and other wildlife and otherwise enhances the environment; protects and increases property values; conserves and enhances the Borough's physical and aesthetic appearance; and generally protects the public health and safety as well as the general welfare.

(Ord. No. 13-07)

26-1.2 Definitions.

The following definitions shall apply to this section:

Accessory building shall mean a building or structure the use of which is incidental to that of the main building and which is located in the same property.

Buffer area shall mean the area along the side yard or rear yard of any lot within: (a) five (5) feet of the property line in the R7.5, R9, and R10 Zones; (b) ten (10) feet of the property line in the R20 Zone; and (c) twenty (20) feet of the property line in the R40 Zone.

Development shall mean the expansion or construction of any structures on residential or nonresidential property that does not qualify as a home improvement under this subsection.

Drip line shall mean an imaginary line on the ground beneath a tree, the location determined by extending a vertical line from the outermost branches of a tree to the ground.

Hazardous tree shall mean a tree that possesses a structural defect that may cause the tree, or part of the tree to fall on a target, and the condition is determined to be imminent. Property owners are responsible for the trees on their property.

Home improvement shall mean any expansion or addition to an existing residence for which a Certificate of Occupancy has previously been issued, or for the construction of improvements such as, but not limited to, any garage, pond, patio, deck, driveway, sidewalk, or accessory building, on any residential lot(s) upon which there is an existing residence for which there exists a valid Certificate of Occupancy. For the purposes of this section, the construction of a tennis court or a swimming pool shall not be considered a "home improvement."

Landmark tree shall mean any tree designated and identified as such by the Mayor and Council pursuant to the standards set forth herein.

Major tree shall mean a deciduous tree with a mature height of at least fifty (50) feet which should be a caliper of at least three (3) to three and one-half (3 1/2) inches measured at six (6) inches above the ground when planted, such as:

Common Name/Scientific Name

Red maple/Acer rubrum

Sugar maple/Acer saccharum

Sweet gum/Liquidambar styraciflua
London plane/Platanus x acerifolia
American sycamore/Platanus occidentalis
White oak/Quercus alba
Pin oak/Quercus palustris
Red oak/Quercus rubra
American elm/Ulmus americana
Copper beech/Fagus sylvatica v. purpurea;
or other major tree approved by the Borough or any of a group of conifer trees of six (6) inches or greater at time of removal as defined herein below.

Major tree removal permit application shall mean an application to remove twenty (20) or more trees from a single lot.

Minor tree shall mean an evergreen tree, ornamental tree or other small tree at least eight (8) feet in height at time of planting, such as:

Common Name/Scientific Name

Birch/Betula
Dogwood/Cornus
Japanese maple/Acer palmatum
Cherry/Prunus
Crabapple/Malus
Magnolia/Magnolia
Ornamental Pear/Pyrus calleryana “Chantcleer” or “Redspire”

or any of a group of conifers such as:

Common Name/Scientific Name

Cedar/Cedrus
Cypress/Cupressus
Arborvitae/Thuja
Cryptomeria/Cryptomeria
Dawn redwood/Metasequoia glyptostroboides
Fir/Abies
Spruce/Picea
Larch/Larix
Pine/Pinus

or other minor tree approved by the Borough.

Minor tree removal application shall mean an application to remove less than twenty (20) trees from a single lot.

Person shall mean the owner of a parcel of real estate or any other individual, group, company, firm, corporation, partnership, association, society or other legal entity.

Principal building shall mean the main building constructed for occupancy or use on the property.

Species shall mean for the purposes of this section, the common name of the tree.

Structure shall mean a combination of materials forming a construction for occupancy, use or ornamentation, whether installed on, above or below the surface of a parcel of land.

Target shall mean a person or object that would be injured or damaged. Examples are structures, vehicles, people and property.

(Ord. No. 13-07)

26-1.3 Permit Required.

- a. No person shall cut down or remove any tree of a caliper of six (6) inches or greater measured at a height of four and one-half (4 1/2) feet above the ground or engage in any site clearing without a tree removal permit except on a lot used for one- or two-family use where a Certificate of Occupancy has been issued prior to the effective date of this section, and except as otherwise provided herein below. (Section 26-1 was adopted February 12, 2013.)

- b. No person shall remove any tree for the construction or contemplated construction (six (6) months from applying for tree permit) of any building, building addition, driveway, recreation area, patio or anything else for which a construction or zoning permit is required until a tree removal permit has been obtained from the Borough.
- c. No person shall remove any tree designated as a Landmark Tree pursuant to the standards set forth herein without the prior approval of the Mayor and Council.
- d. Prior to the removal of any tree of a caliper of six (6) inches or greater measured at a height of four and one-half (4 1/2) feet above the ground that is located within the buffer area as defined herein, the property owner or any other person must first obtain a tree removal permit from the Borough and satisfy the tree mitigation requirements contained herein.

(Ord. No. 13-07)

26-1.4 Application Procedure.

- a. Application for a tree removal permit for site clearing or other tree removal purposes pursuant to an approved development application shall be made by submission of the following:
 - 1. An original and two (2) copies of an application on forms provided by the Borough containing the following information: name and address of the applicant; the street address and tax lot and block of the property in question; the number of trees to be removed; and such other information as may be required.
 - 2. An original and two (2) copies of a tree removal plan consisting of a map drawn to scale showing the location of all trees on the property of a caliper of six (6) inches or greater, and the location of all trees to be removed, the species of such trees, and their caliper. The tree removal plan must be prepared, signed and sealed by a licensed professional engineer or land surveyor, and must show the location of all existing and proposed structures on the property, together with the distance, up to fifteen (15) feet, that trees proposed to be removed are located from such structures and from property lines.
 - 3. An original and two (2) copies of a tree mitigation plan, if mitigation is required pursuant to subsection 26-1.6d. hereof, consisting of a map drawn to scale showing the location of all trees to be planted, the species of such trees and their caliper or size as required.
 - 4. An original and two (2) copies of a separate list of the trees to be removed identifying each tree on the tree removal plan by species and caliper, and stating the condition of each tree as "dead," "hazardous, dying/in state of decline," "fair," or "good," and further explaining why removal is felt justified under the standards of this section.
 - 5. The applicant shall place a one-inch-wide red ribbon around the trunk of each tree to be removed at a height of four and one-half (4 1/2) feet above the ground so that the proposed tree removal may be inspected in the field.
- b. Application for a tree removal permit for building construction purposes pursuant to subsection 26-1.3b. hereinabove shall be made by submission of the following:
 - 1. An application on forms provided by the Borough containing the following information: name and address of the applicant; the street address and tax lot and block of the property in question; the number of trees to be removed; and such other information as may be required.
 - 2. A plan consisting of a map drawn to scale showing the location of all trees on the property of a caliper of six (6) inches or greater, and the location of all trees to be removed, the species of such trees, and their caliper. The plan must show the location building, building addition, foundation, driveway, recreation area or any site condition that warrants the proposed tree removal.
 - 3. The applicant shall place a one-inch-wide ribbon around the trunk of each tree to be removed at a height of four and one-half (4 1/2) feet above the ground so that the proposed tree removal may be inspected in the field.
- c. Application for a tree removal permit for purposes pursuant to subsection 26-1.3d. hereinabove shall be made by submission of the following:
 - 1. An application on forms provided by the Borough containing the following information: name and address of the applicant; the street address and tax lot and block of the property in question; the number of trees to be removed; and such other information as may be required.
 - 2. A plan consisting of a map drawn to scale showing the location of all trees within the buffer area of a caliper of six (6) inches or greater, and the location of all trees to be removed, the species and caliper of such trees, and the reason for removing each tree. The plan must show the locations of any buildings, driveways, or other permanent structures.

3. The applicant shall place a one-inch-wide red ribbon around the trunk of each tree to be removed at a height of four and one-half (4 1/2) feet above the ground so that the proposed tree removal may be inspected in the field.
- d. In the case of an application for a major tree removal permit, it will be reviewed by the Public Works Director and the Borough Engineer. The Code Enforcement Officer will assist with the required site inspections.

(Ord. No. 13-07)

26-1.5 Fees.

- a. The fee for a tree removal permit shall be the following:

<i>Number of Trees</i>	<i>Fee</i>
1 to 5	\$ 100.00
6 to 10	\$ 150.00
11 to 20	\$ 250.00
21 to 50	\$ 500.00
51 and over	\$1,000.00 plus an additional \$100.00 for each additional 5 trees or part thereof

Notwithstanding the above fee schedule, no permit fee shall be required for the removal of a dead or hazardous tree located within the buffer area as defined herein, provided the applicant and/or property owner satisfies all of the other requirements of this section and the provisions of Resolution #R02-194 adopted June 25, 2002.

- b. There shall be an additional fee of seventy-five (\$75.00) dollars for the review of any proposed revision or amendment to a previously approved tree removal permit.

(Ord. No. 13-07)

26-1.6 Standards for Application Review.

The following standards for review of applications shall apply:

- a. *Permitted Removal.* No tree shall be permitted to be removed unless the tree is:
 1. Located within the building footprint of a proposed principal building.
 2. Located between the curblines of a proposed roadway approved pursuant to Chapter XXXV Land Development Regulations of the Borough of Tenafly.
 3. Located within the proposed roadway right-of-way but outside the curbline of a proposed roadway approved pursuant to the Land Development Regulations of the Borough of Tenafly.
 4. Dead or poses a safety hazard.
 5. Located within fifteen (15) feet of any building.
 6. Located within the area of the proposed driveway, walkway, utility line, accessory building, or any other structure.
 7. Specifically permitted to be removed in a site plan approved pursuant to the Municipal Land Use Law.
- b. *Conflict with Other Laws.* Notwithstanding anything in this section to the contrary, no tree removal shall be permitted where prohibited by Chapter XXXV, Article VIII Zoning Regulations or any other municipal, State, or Federal Statute, ordinance or regulation.
- c. *Hardship Appeal.* In the event that an applicant believes the standards set forth in paragraphs a. and b. above constitute a hardship which prohibits a reasonable use of all or substantially all of the property in question, an applicant may seek relief from the Mayor and Borough Council. In the event that such relief is sought, the applicant shall submit an additional ten (10) copies of the documents required to be submitted together with ten (10) copies of a written statement as to the reasons for the claimed hardship. In addition, the applicant shall submit a fee for the hearing of the matter in the amount of one hundred (\$100.00) dollars, which fee shall be refunded to the applicant if the hardship is granted by the Mayor and Council. The Mayor and Borough Council, upon submission of a complete application to the Borough Clerk, shall schedule a public hearing in connection with the requested relief. The applicant shall cause to be published in an official newspaper of

the Borough a notice setting forth the time, date and place of the hearing to be so held, together with a brief statement of the relief requested. Such notice must be published within ten (10) days prior to the date of the hearing. Additionally, the applicant shall cause to be served upon all property owners within three hundred (300) feet of the property in question, a similar notice by certified mail, return receipt requested, or by personal service. Proof of publication and service of notice shall be required to be submitted to the Borough Clerk prior to the hearing. At the hearing the applicant may present witnesses under oath and any other interested parties may do the same. All witnesses shall be subject to cross-examination. The decision of the Mayor and Borough Council shall be binding upon the municipal official in charge of enforcement and administration of this section.

d. *Mitigation.* Mitigation for tree removal shall be required as follows:

1. No mitigation shall be required in connection with tree removal conducted pursuant to a permit issued under this subsection paragraphs a,1, 2 and 3.
2. Mitigation shall be required pursuant to paragraph d. of this subsection in the event of tree removal pursuant to paragraph a,5 and 6 of this subsection.
3. In the event of tree removal pursuant to paragraph a,4 of this subsection, no mitigation shall be required if the tree has been planted for at least five (5) years; there has been no damage to the tree by construction or otherwise by any person; and there has been no soil moving within fifteen (15) feet of such tree within five (5) years; otherwise, mitigation shall be required pursuant to paragraph d,4 of this subsection.
4. For each tree for which mitigation is required, pursuant to paragraph d,2 and 3 above of this subsection, the following shall apply:
 - (a) For each tree removed pursuant to the standards of this section, the applicant shall plant a major or minor tree as defined in this section on the property in question:
 - (1) If the tree removal permit is applied for in connection with any home improvement, the mitigation requirements shall be as follows:

<i>Caliper of Tree Removed</i>	<i>Number Required for Mitigation</i>	<i>Type of Tree</i>
6" to no more than 12"	None if less than 3 trees removed	N/A
6" to no more than 12"	1 for every 3 trees removed	Minor
From 12" to 18"	1 tree	Major
From 18" to 24"	2 trees	Major
From 24" to 31"	3 trees	Major
From 31" to 41"	4 trees	Major
41" or greater	5 trees	Major

- (2) If the tree removal permit is applied for in connection with any development that does not qualify as a home improvement, the mitigation requirements shall be as follows:

<i>Caliper of Tree Removed</i>	<i>Number Required for Mitigation</i>	<i>Type of Tree</i>
4" to no more than 12"	None if less than 3 trees removed	N/A
6" to no more than 12"	1 for every 3 trees removed	Minor
From 12" to 16"	1 tree	Major
From 16" to 18"	2 trees	Major
From 18" to 24"	3 trees	Major
From 24" to 30"	4 trees	Major
30" or greater	5 trees, plus 2 additional trees for each 5" diameter, or part thereof over 30"	Major

- (b) The caliper of trees with multiple trunks shall be calculated by multiplying the caliper of the larger trunk by 1.5 times.

- (c) In the event the applicant asserts the planting of trees on the property in question would be inappropriate and the official in charge of enforcement and administration of this section agrees, the applicant may, in lieu of planting trees, provide to the municipality a sum of money equal to the approximate cost of such tree planting as may be determined, from time to time, by resolution of the Mayor and Borough Council for each such tree required to be planted pursuant to this subsection for the purposes of planting shade trees elsewhere in the municipality.
 - (d) Upon the approval of the Director of Public Works, the applicant may exercise the option of planting two (2) minor trees for each major tree, as required pursuant to the mitigation requirements. However, for every ten (10) minor trees planted, a minimum of one (1) major tree must be planted.
5. In the event that tree removal occurs in an area otherwise than permitted in paragraph a., mitigation shall be required at a rate two (2) times the number of trees required should the tree removal occur in a distance of thirty (30) feet or greater from proposed building.
 6. In the event that it is unknown or in question in any given instance as to whether mitigation should be determined on the basis of a minor tree or a major tree, mitigation shall be required on the basis of a major tree.
 7. In the event that it is unknown how many trees were removed from any given site, and removal took place without a tree removal permit issued pursuant to this section, the number of trees requiring mitigation shall be computed by assuming trees over six (6) inches in caliper existed thirty (30) feet on center and plotting the maximum number of those trees as circles of a fifteen (15) foot radius without having the circles overlap or extend beyond the property lines or drip lines of existing trees.
 8. In connection with tree removal pursuant to paragraph a,3, it shall be required that the applicant plant major trees on center a distance of thirty (30) feet as street trees between the curbline and the edge of the right-of-way in a location determined by the municipal official administering this section.
 9. Mitigation in any instance is not to be considered a penalty, rather an implementation of the purposes of this section. Mitigation shall not be a substitute for, but shall be in addition to, any penalty imposed for violation of the provisions of this section.
 10. Upon the approval of the Mayor and Council, the mitigation requirements required pursuant to this paragraph may be satisfied by the applicant by donating the tree(s) to be removed to the Borough of Tenafly and planted elsewhere in the Borough of Tenafly at the expense of the applicant. The Director of Public Works shall inspect any such trees and submit a recommendation to the Mayor and Council whether to accept or not accept such donation.
- e. *Notice to Adjoining Property Owner.* In the event that the Director of Public Works determines that any tree to be removed is located within the buffer area or in close proximity to the property line between the two (2) properties, the applicant is required to notify the owner of the adjacent property by letter or personal contact and the applicant shall be required to submit written evidence of such notification at the time of application for a tree removal permit. In addition, in the case of any tree shown on a survey plan located on a property line, the applicant shall be required to obtain written consent from the adjacent property owner to remove the tree and written consent shall be submitted by the applicant at the time of application for a tree removal permit. The owner of adjacent property who received such notification may submit a written objection to the removal of any such tree to the Borough within five (5) days of such notification. The Borough will investigate the conditions of any such written objection prior to the issuance of a tree removal permit.
 - f. *Cumulative Number of Trees Removed to Be Considered in Determining Eligibility for Minor Tree Removal Permit.* In determining whether an applicant is eligible for a minor tree removal permit or must apply for a major tree removal permit, the total number of trees that an applicant has applied to remove on the same lot, including amendments to previously approved tree removal permits, within a twenty-four (24) month period shall be used; and, when an applicant requests to remove any number of trees that will result in his having applied to remove a cumulative total of twenty (20) or more live trees within said twenty-four (24) month period, he shall be required to apply for a major tree removal permit, irrespective of the fact that such applicant shall not have requested approval to remove in excess of twenty (20) trees in any one (1) permit application.

(Ord. No. 13-07)

26-1.7 Performance Bond.

- a. As a precondition to the issuance of a permit where mitigation is required, the applicant shall post a cash bond to assure mitigation in an amount equal to the amount set forth herein below for each minor tree, major tree:

Major tree as defined herein	\$250.00 each
Minor tree as defined herein	\$125.00 each

- b. The applicant shall contact the Director of Public Works within forty-eight (48) hours of the completion of the planting of the trees required for mitigation to schedule a date and time for an inspection in order for the Borough to determine whether the required mitigation has been completed satisfactorily.
- c. Notwithstanding the above, the applicant and/or property owner shall forfeit the cash bond amount if the applicant and/or property owner fails to complete the planting of the trees within the time of completion set forth in subsection 26-1.8. Prior to the forfeiture of any cash bond monies, the Director of the Department of Public Works shall cause a written notice to be served upon the applicant and/or property owner who posted the cash bond. Service of the notice shall be made in person or by certified mail return receipt requested. Upon service of any notice pursuant to this paragraph, the applicant and/or property owner shall have ten (10) days, or such further time as the Mayor and Council shall agree, in writing, to plant the trees that have not been planted, or the applicant and/or property owner shall forfeit any cash bond amounts posted by the applicant and/or property owner. Any monies forfeited by the applicant and/or property owner shall be deposited in the Borough's shade tree fund for use by the Department of Public Works to plant trees elsewhere in the municipality.

(Ord. No. 13-07)

26-1.8 Time of Completion.

The tree required to be planted by the applicant and/or property owner pursuant to subsection 26-1.6d,4, shall be planted within six (6) months after the completion of the project for which the permit was issued, the issuance of a Certificate of Occupancy or the issuance of a certificate of approval, whichever shall be sooner. The applicant may submit a written request to the Director of Public Works for an extension of time of up to an additional three (3) months due to unforeseen circumstances or weather conditions, which request shall not be unreasonably denied. Any request for an extension of time greater than three (3) months must be submitted in writing to the Mayor and Council for consideration. (Ord. No. 13-07)

26-1.9 Protection of Existing Trees.

- a. In connection with any home improvement prior to the issuance of any building permit, six (6) foot portable chain link fencing shall be placed around trees that are not to be removed. The municipal official charged with the enforcement and administration of this section shall be notified by the applicant to inspect the protective fencing.
- b. In connection with any development, prior to the issuance of any tree removal permit required by subsection 26-1.3d, portable chain link fencing or other protective barrier acceptable to the municipal official charged with the enforcement and administration of this section shall be placed around trees that are not to be removed.
- c. The portable chain link fencing or other protective barriers referred to in paragraphs a. and b. of this subsection shall be placed at a distance of at least ten (10) feet from the trunk of any tree or the tree's drip line, whichever distance shall be greater, and shall remain in place until all construction activity on the property has terminated. Should the applicant be unable to place the fencing under the dripline, the municipal official may require a six (6) inch layer of woodchips to decrease compaction of the soil. No equipment, chemicals, soil deposits or construction materials shall be placed within any area so protected by barriers. Any landscaping activities subsequent to the removal of the barriers shall be accomplished with light machinery or hand labor.
- d. No person shall:
 - 1. Cut down or remove any tree, except as permitted by this section, or allow or cause such cutting or removal.
 - 2. Cause or allow any willful damage, injury or disfigurement of any tree growing within the property in question. For purposes of this subsection, the actions of any person shall be deemed willful if the damage, injury or disfigurement of any tree is caused as the result, but not limited to the following: cutting, gashing or slitting on any tree; the pouring of any liquid or other material on any tree, or on the nearby ground; the construction or placement of any nonporous material on the ground around any tree so as to cut off air, light or water from the roots; or placement or removal of any soil within the drip line or ten (10) feet of any tree, whichever is greater.

3. Store or pile building materials or debris or place construction equipment within ten (10) feet of any tree.
- e. In the event that any tree to be saved in connection with construction as set forth above or any tree planted in mitigation shall die within two (2) years after planting, it shall be replaced by the applicant or the property owners within six (6) months.
- f. The grade of land located within the dripline shall not be lowered or raised unless compensated by welling or retaining wall methods; and in no event shall be permitted within the dripline or within ten (10) feet of any remaining trees, whichever is greater.
- g. Any excavation within the dripline, or within ten (10) feet of the trunk of a remaining tree, whichever is greater, shall be done by airspade, or hand operated equipment.

(Ord. No. 13-07)

26-1.10 Protection and Planting of Borough Shade Trees.

- a. The Director of the Department of Public Works shall have jurisdiction over the planting, care, maintenance and preservation of shade trees within the lines of all public highways and streets in the Borough of Tenafly, and for the planting of any shade tree on private property as set forth in paragraph f. below.
- b. No person shall:
 1. Plant or permit the planting of any bush, vine, hedge, shrub or other plant life, except trees and grass within the sidewalk area of any street.
 2. Plant any shade or ornamental tree in the sidewalk area of any street without first having secured the approval of the Director as to the type of tree and the location of such planting.
 3. Plant or permit to be planted any poplar or willow tree within fifty (50) feet of any street line or sanitary or storm sewer.
 4. Fasten any electric wire, wires, rope, sign or other device upon any shade tree on any public street.
 5. Climb any tree on any public streets or places by the use of spurs or other instruments which perforate or injure the bark of such tree.
 6. Destroy, mutilate or injure any such tree.
 7. Remove or cut down any shade tree located upon any of the public streets or places without a permit therefor issued by the Director.
 8. Cut, disturb, or interfere in any way with the roots or root system of any shade tree.
 9. Spray any shade tree with injurious chemicals, or spread or apply any injurious chemicals, including salt, around the root area of any such tree.
 10. Excavate or remove soil within four (4) feet of any shade tree.
- c. In the event that any resident shall request the removal of any healthy shade tree within the Borough's right-of-way, such request shall be subject to the permit requirements of this section, and the issuance of a permit shall be expressly conditioned upon the following: (1) the resident shall hire a tree contractor to remove the tree at the resident's sole expense; and (2) the resident shall be responsible for mitigation pursuant to subsection 26-1.6d,4(a)(1) of this section.
- d. The Borough is not responsible for any Evergreen trees in the right-of-way.
- e. When determining if a shade tree is in the Borough right-of-way, the measurement is from the centerline of the street to the center of the tree.
- f. The Director of the Department of Public Works, and all Borough employees acting under his or her direction, shall be deemed to have an implied easement for the planting of any new shade tree to be planted on private property with the written approval of the property owner. Such written approval shall provide that the Borough of Tenafly shall not be responsible for the care, maintenance, and/or removal of any such shade trees planted on private property pursuant to this subsection.

(Ord. No. 13-07)

26-1.11 Protection of Landmark Trees.

- a. Upon the recommendation of the Director of Public Works, the Mayor and Council shall determine whether any tree qualifies as a Landmark Tree. A tree may qualify as a Landmark Tree if it meets one (1) or more of the following criteria:
 1. The tree species is rare.
 2. The tree is more than one hundred (100) years old, and healthy.
 3. The tree is of an abnormal height or has an abnormal trunk diameter or drip line for a tree of its species.
 4. The location, shade value, fragrance, erosion control, aesthetic features, or scenic enhancement of such tree is of special importance to the Borough of Tenafly.
 5. The tree is a rare ornamental or flowering tree.
- b. All trees designated as Landmark Trees by the Mayor and Council shall be shown on an official Borough Map with appropriate code marks signifying each tree's designation, number, species, age, size and other distinguishing characteristics for ready reference and periodic monitoring.
- c. If the owner or owners of the property on which a Landmark Tree is located consents thereto, the Borough may identify such tree as a Landmark Tree by the placement of a suitable marker thereon.
- d. If, and when, any Landmark Tree is removed, the Director of Public Works shall arrange for the necessary changes to be made to the official Landmark Tree inventory records and Borough Map.
- e. No person shall cut down or remove any Landmark Tree, whether such tree is located on public or private property, without first obtaining the approval of the Mayor and Council and a permit issued pursuant to this section.
- f. For each Landmark Tree removed pursuant to paragraph e. hereinabove, mitigation shall be required in accordance with the mitigation schedule for development as specified in subsection 26-1.6d, 4(a)(2) of this section. In the event the applicant asserts the planting of trees on the property in question would be inappropriate and the Mayor and Council agrees, the applicant may, in lieu of planting trees, provide to the Borough a sum of five hundred (\$500.00) dollars for each tree required to be planted in mitigation, said sum to be used by the Borough at its sole discretion for the purpose of planting trees elsewhere in the Borough of Tenafly.

(Ord. No. 13-07)

26-1.12 Hazardous Trees and Emergency Removals.

- a. Property owners are responsible for the trees on their property. If a tree receives a 9 through 12 rating under the International Society of Arboricultural rating system set forth in the "Hazard Tree Analysis for Urban Areas," it will be considered unsafe and will need to be removed. Borough officials who are trained in hazardous tree identification will enforce this action.
- b. In the event a tree on private property is damaged by a storm, where removal is in response to an emergency condition, a permit is not required. In the case of this situation, the Code Enforcement Office shall be notified, and the Code Enforcement Officer, or his designee shall inspect the property to verify.
- c. If there is a major storm in the Borough, where an authorized Borough-wide clean-up is necessary, residents have sixty (60) days from the date of the storm event to bring their storm damaged limbs and branches to the curb. This pertains to only storm damage materials and does not include routine yard debris.

(Ord. No. 13-07)

26-1.13 Administration and Enforcement.

This section shall be administered primarily by the Director of Public Works, with assistance from the Code Enforcement Officer, and enforced under the Property Maintenance Code. (Ord. No. 13-07)

26-1.14 Appeals.

Any person aggrieved by the decision of the municipal official charged with the administration and enforcement of this section shall have the right within ten (10) days of the issuance of any decision by such official to appeal to the Mayor and Borough

Council, which shall take action as it deems appropriate in the matter. In the event of such an appeal, the procedures set forth with reference to applications based on hardship contained in subsection 26-1.6c. shall apply. (Ord. No. 13-07)

26-1.15 Violations and Penalties.

- a. Any person who violates any provision of subsection 26-1.3 shall, upon conviction thereof, be punished by a fine of one thousand (\$1000.00) dollars for the violation, plus an additional five hundred (\$500.00) dollars for each tree that would have been required for mitigation. The aforementioned penalties may, upon a written plea of "guilty," be paid and satisfied through the Violations Bureau of the Municipal Court without the requirement of a court appearance.
- b. Any person who violates any provision of subsections 26-1.9 or 26-1.10 shall, upon conviction thereof, be punished by a fine of not less than five hundred (\$500.00) dollars for each violation. The aforementioned penalty may, upon a written plea of "guilty," be paid and satisfied through the Violations Bureau of the Municipal Court without the requirement of a court appearance.
- c. It is the responsibility of the homeowner and whomever damages or removes a tree to know the provisions of the section. A violation may result in penalties to both parties.
- d. All monies collected will be deposited into the Borough's Shade Tree Replacement Fund.

(Ord. No. 13-07)

26-1.16 Summary Chart of Tree Regulations.

- a. The Summary Chart provided below shall serve as a consolidated guide to the permit, fee, and notification regulations contained within this chapter. In the event of any perceived inconsistency between this Summary Chart and the printed sections of this chapter, the provisions of Chapter XXVI shall control.

<i>LAND DEVELOPMENT ACTIONS & PERMITS</i>	<i>Development of New House, Swimming Pool, Tennis Court</i>	<i>Exterior Home Improvement Construction or Zoning Permit Required</i>	<i>Buffer Zone R7.5, R9, R10-5 feet; R20-10 feet; R40-20 feet</i>	<i>Hazardous in Buffer zone</i>	<i>Any Other Situation</i>
Permit Required	yes	yes	yes	yes	no
Permit Fee	yes	yes	yes	no	no
Minimum Caliper of Tree 54" Above Ground	6"	6"	6"	n/a	n/a
Site Plan Required	yes	no	no	n/a	**
Property Survey Required	no	yes	yes	yes	n/a
Possible Mitigation	yes	yes	yes	no	n/a
Notification to Adjacent Property Owner	no	no	yes	yes	n/a

** Such situations to be reviewed by the Director of the Department of Public Works and/or the Construction Official to determine the applicability of any of the provisions of this chapter.

(Ord. No. 13-07)