



Mr. Carlos Silva
Silva Gardening & Tree Service, Inc.
29 Ellis Place
Ossining, NY 10562

8/23/22

Dear Mr. Silva,

At your request I examined the large Norway Spruce tree located on the property at 468 Broadway, Dobbs Ferry, NY. You related to me that the property owner wishes the tree to be removed and that you would like my opinion as to whether removal is justified, and if so to explain why so that the appropriate permit can be obtained from the municipality.

I arranged to meet with you at the site this afternoon at which time I conducted a Level 2 Risk Assessment according to the protocol prescribed by the International Society of Arboriculture.

The Tree

Location

The tree is located in the northwest portion of the property near Broadway and South Lane. The tree stands 13.75 feet from the wall of the residential structure and 10.0 feet from South Lane. The tree's branches are in contact with the eave of the house and overhang it somewhat, and overhang the utility wires located on South Lane.

Rooting

The root system is at the soil surface and is heavily decayed. Of the eight or nine substantial anchoring roots that I examined each was found to be decayed for much of the upper surface and in the case of two major roots decay has entered also from below. Anchorage is suspect as the roots affected are at the margin of the root plate where wind loading forces are greatest.

Buttress

The buttress is the transitional area between vertical trunk and horizontal roots. The buttress is solid though much of it is covered with resin that has dripped from above giving the appearance of structural issues in the butt.

Trunk

The trunk is straight, about 85 feet in length, and punctuated in several locations by an infestation of Pitch Mass Cankers. These cankers are the origin of the coating of resin on the lower trunk and the ground under the tree.

Crown

The crown of the tree is normal

Observations

This tree is very large for the site in which it is located. It is in contact with the house, is raising the flags of the sidewalk, and is only ten feet from the side street along which is electrical and communication lines.

The root system is severely damaged and suspect. There is little chance of the tree falling onto the structure at 468 Broadway, but a very real possibility of failure during a wind event from the south or southeast causing the tree to fall across South Lane taking out the utilities and striking the house on the far side of the road. That structure is only fifty-one feet from the tree and well within striking distance.

Risk is quantified as the likelihood of an event happening and the consequences of that event. The target area in this instance is occupied by the public utility, the public roadway and intermittently by those who use it, and the structure on the north side of South Lane. The risk of failure is moderate during a wind event. The consequences of failure are between substantial to extreme. In the event that the tree failed striking a vehicle or brining the utilities down onto a vehicle the results would be extreme. The risk of substantial structural damage and possible personal injury is present for the home on the north side of South Lane.

Recommendations

Although the buttress, trunk, and crown are in structurally sound condition, the anchoring root system is not. Therefore, it is my recommendation that an application be made to the town for removal.

I authorize your inclusion of this letter as part of your application. If you have further questions, please contact me.

Respectfully,



A. Wayne Cahilly

Assessor's Credentials

CURRICULUM VITAE

A. Wayne Cahilly

10 Cooper Avenue
Dumont, New Jersey 07628
Telephone:
(201) 742-2739 Cell
chstreets@yahoo.com

Experience

6/85 to Date **Owner, Cahilly's Horticultural Services, LLC**

10 Cooper Avenue
Dumont, New Jersey 07628

Conduct tree & landscape evaluations, tree-risk analysis, tree inventories, and other related services to public and private clients. Equipped to perform all levels of risk assessment including the use of Sonic Tomography. Experienced in preparing legal professionals working in tree-related matters and experienced as an expert witness. Able to conduct field investigations and provide written and oral reports as needed to fulfill assignments. Able to teach a range of tree related subjects.

1/98 to 7/20 **Manager, The Lionel Goldfrank III Institutional Mapping Department – Site Historian**

The New York Botanical Garden
200th Street and Southern Boulevard
Bronx, New York 10458

Responsible for developing procedures and protocols for generating and recording spatial data relating to all architecture, infrastructure, and living-collections located at The New York Botanical Garden. Develop architectural and mapping standards, develop a G.I.S. based system for managing spatial data, and develop a means for indexing all maps and drawings relating to the facility since its inception. Provide full survey support for construction stake-out, documentation, and topographic mapping. Familiar with AutoCAD Civil 3-D

3/90 to 3/98 **Manager, Arboretum and Grounds**

The New York Botanical Garden

Responsible for the maintenance, management, and development of all hardy plant collections, 15 specialty gardens, and the grounds of a world class 250-acre botanical garden. Oversaw the site-management program for The New York Botanical Garden Forest Research Project. Managed 26 full time employees and up to 20 seasonal workers. Responsible for developing programs for pruning, tree replacement, tree evaluation, construction damage reduction and recovery, nursery management, fertilization, leaf removal, and turf care. Oversaw all work in the rose garden, rock garden, perennial garden, native plant garden, herb garden, peony, iris, and daylily collections, and annual plantings.

3/87 to 3/90

Lead Arborist

The New York Botanical Garden

Responsible for the care of all tree and shrub collections and forested areas. This included pruning, cabling, bracing, insect and disease diagnosis and control, tree risk assessment and record keeping, tree removal and replacement, and other cultural procedures. Instructed School of Professional Horticulture students in the techniques of tree climbing, pruning, rigging, cabling, planting, and in the identification and care of woody ornamental plants.

4/85 to 3/87

Forest Manager

The Institute of Ecosystem Studies (Now Cary Institute)
Box AB
Millbrook, New York 12545

Responsible for a 40-acre urban forest research site. Developed programs and techniques for trail restoration, tree maintenance, hazard tree abatement, and erosion control. Established an herbarium for the site and kept a plant inventory. Provided survey support for research activities. Supervised Field Research Assistants, students, and seasonal workers as they performed their assigned tasks.

5/84 to 4/85

Botanical Garden Aide

The New York Botanical Garden

Assigned to all crews, greenhouses, and special garden areas of the Horticulture Department as needed.

6/78 to 5/81

Assistant Director of Grounds

Cedarville University
Box 601
Cedarville, Ohio 45314

Responsible for assisting the director of grounds in all aspects of grounds maintenance and development on a 180-acre university campus including athletic field maintenance, turf care, leaf removal, and tree and shrub care. Oversaw snow removal operations site wide.

Symposia and Continuing Education

2021	<u>Fall Tree Conference</u>	New York State Arborists Association
2021	<u>Garden State Tree Conference</u>	New Jersey State Arborists Association
2019	<u>Tree Management Seminar</u>	Bartlett Tree Experts Co.
2018	<u>Municipal Tree Risk Mgmt.</u>	Tree Wardens Assoc. of CT
2016	<u>Advanced Decay Detection</u>	Frank Rinn, Heidelberg, GR
2015	<u>Life Science Training Institute</u>	Rutgers University/Pinelands Preservation Alliance
2013	<u>Summer Tree-risk Seminar</u>	Dr. Bruce Fraedrich, Bartlett Tree Experts Co.
2012	<u>Tree Risk Assessment</u>	Jim Flott, Western Chapter ISA
2008	<u>Quantified Tree Risk Assessment</u>	David Evans, QTRA Ltd, United Kingdom

2007	<u>Trees, People & The Law</u>	Victor Merullo, Esq. Columbus Ohio
2007	<u>Tree Risk Assessment</u>	Dr. Bruce Fraedrich, Bartlett Tree Experts Co.
2005	<u>Detecting Decay in Trees</u>	Dr. Chris Luley, Arbor Care, LLC, Rochester, NY
2005 - 2007	<u>New York State Vocational Teachers Training Program.</u>	
2001	<u>Hazard Tree Workshop</u>	Ed Hayes, Minnesota Dept of Nat. Resources, New York, NY
1999	<u>The Body Language of Trees</u>	Professor Dr. Claus Mattheck, Philadelphia, PA.
1998	<u>Autodesk University.</u>	Philadelphia Convention Center, Philadelphia, PA.
1998	<u>Introduction to AutoCAD Release 14.</u>	Eberhard Engineering, Patchogue, NY
1988 – 17	<u>Annual Symposium</u>	Long Island Arboricultural Association
1995 – 97 & 10, 13	<u>Annual Conference</u>	American Society of Consulting Arborists
1990 – 22	<u>Annual Winter Conference</u>	New York State Arborist Association
1997 - 04	<u>Annual Conference</u>	The American Public Gardens Association
1997	<u>Natural Disaster Planning</u>	USDA Forest Service, Northeastern Region, Durham, NH
1996	<u>Arboricultural Consulting Academy</u>	American Society of Consulting Arborists
1995	<u>The Body Language of Trees</u>	Professor Dr. Claus Mattheck, Karlsruhe Research Center, Federal Republic of Germany
1994	<u>Hazard Tree Assessment</u>	Dr. Alex Shigo, Professor Dr. Claus Mattheck, University of MA
1992	<u>Construction Damage Management.</u>	Cornell Cooperative Extension Service, Westchester, NY
1991	<u>Landscape Magic</u>	Walt Disney World Resorts, Orlando, FL
1990	<u>Home Study Program – Tree Care</u>	American Arborist Association

Full-time Educational Programs

1984 Graduate	Summa Cum Laude <u>The New York Botanical Garden School of Professional Horticulture</u>
1977 – 78	<u>Cedarville University</u>

Professional Affiliations

The American Society of Consulting Arborists
International Society of Arboriculture
New York State Arborist Association
New Jersey State Arborist Association

Awards, Licenses, and Citations

Professional Field Arborist Award 2021– NY State Chapter – International Society of Arboriculture
Licensed Tree Expert #688 – State of New Jersey
Certified Arborist - NJ-1077A - International Society of Arboriculture
Qualified Tree Risk Assessor - International Society of Arboriculture
New York State Vocational Teachers License
Recognition for Horticultural Education Excellence, School of Professional Horticulture, New York Botanical Garden, Bronx, NY
Community Volunteerism Award, Borough of Dumont, NJ
Certificate of Merit, The Institute of Ecosystem Studies, Millbrook, NY
The Award for Achievement in Developing Horticultural Skill, The New York Botanical Garden School of Professional Horticulture, Bronx, NY

Teaching Experience

I have taught the following courses at The New York Botanical Garden as part of their adult education program.

<u>Fundamentals of Digital Photography</u>	2015 - 18	14 hours of classroom & field instruction
<u>ISA Certified Arborist Test Prep</u>	2008-2019	8 hours of classroom instruction
<u>Tree Management</u>	1988 – 21	16 hours of classroom instruction
<u>Tree Care Practicum</u>	1993	18 hours of field instruction
<u>Tree Identification</u>	1987 – 17	18 hours of field instruction
<u>Local Flora in Winter</u>	1990	16 hours of field instruction
<u>Basic Tree Climbing</u>	1988 – '05	27 hours of field instruction
<u>Surveying</u>	1987	16 hours of field instruction
<u>Landscape Measurement</u>	2009 - 19	12 hours of classroom & field instruction
<u>Large-Tree Pruning</u>	1990	12 hours of field instruction
<u>Recognition and Assessment of Potentially Hazardous Trees</u>		
	1999 – '04	12 hours of field instruction
<u>Practical Rigging for Arborists</u>	1993 – '98	24 hours of field instruction
<u>Pruning of Woody Ornamentals</u>	1995 – '08	12 hours of field instruction
<u>Developing and Pruning Espaliers</u>	2000 – 2004	6 hours of field and classroom instruction
<u>Using Dichotomous Keys</u>	1995 – '98	3 hours of field instruction
<u>Fundamentals of AutoCAD</u>	2000	4 hours classroom instruction

Lectures/Workshops Presented (partial listing)

<u>Introduction to Tree Risk Assessment</u>	Nassau/Suffolk Landscape Gardeners – Summer Field Day
<u>So, You Want to be a Consulting Arborist?</u>	New York State Arborists Association – Annual Conference
<u>Veteran Tree Management</u>	New Jersey State Arborists Association – Annual Conference
<u>Landscape Diagnostics</u>	Metro Hort Group, New York City
<u>Management of Veteran Trees</u>	New York State Arborists Association, Suffern, NY
<u>Veteran Tree Management</u>	Canopy Conference – Haverford College, Philadelphia, PA
<u>Managing Veteran Trees</u>	Morris Arboretum – University of Pennsylvania – full-day workshop
<u>Municipal Tree Risk Assessment</u>	Greenwood Gardens, Milburn, NJ
<u>Municipal Tree Risk Management</u>	Town of Rutherford
<u>Garden Mapping</u>	Morris Arboretum – University of Pennsylvania
<u>Tree Risk Management in a Municipal Setting</u>	Town of Ridgewood Tree Committee/Public Lecture
<u>Sonic Tomography</u>	New Jersey State Arborist Association – half-day workshop
<u>Visual Tree Risk Assessment</u>	Long Island Arboricultural Association – annual conference
<u>Field Data Collecting Techniques</u>	American Society of Consulting Arborists – annual conference
<u>Working Around Trees</u>	(Four-part Lecture Series) University of Connecticut
<u>Tree Risk Management of Landscape Designers</u>	Metro Hort Group, New York City
<u>A Modern Approach to Pruning,</u>	Cornell Cooperative Extension of Westchester County
	New York Turf and Landscape Association
	The Greenwich Garden Education Center
<u>Proper Tree Planting Procedures for Municipal Foresters,</u>	New York ReLeaf, Planting Fields Arboretum
<u>Developing an In-house Tree Care Program,</u>	The American Public Gardens Association
<u>Urban Forest Management</u>	The American Public Gardens Association
<u>Pruning Trees and Small Ornamentals,</u>	Long Island Arboricultural Association
	New York Department of Parks and Recreation
<u>Enhancing the Image and Income of Arborists,</u>	Long Island Arboricultural Association

<u>Planting, Transplanting and After-care of Woody Ornamental Plants,</u>	Bartlett Arboretum of the University of Connecticut
<u>Pruning, Cabling, and Bracing,</u>	Bartlett Arboretum of the University of Connecticut
<u>Ct. Arborist Licensing Exam Prep</u>	Bartlett Arboretum of the University of Connecticut
<u>Tree Care for the Homeowner,</u>	Bartlett Arboretum of the University of Connecticut
<u>Selecting Trees and Shrubs for Your Site,</u>	Beginning Gardening Symposium, The New York Botanical Garden
<u>Site Considerations and their Constraints on Plant Selection,</u>	Beginning Gardening Symposium, The New York Botanical Garden
<u>Some Thoughts on Professionalism,</u>	The New York Botanical Garden School of Professional Horticulture
<u>Did We Learn This in Horticulture School?</u>	The New York Botanical Garden School of Professional Horticulture
<u>Mapping Your Garden From The Ground Up</u>	The American Public Gardens Association

Publications

<u>Boundary Concerns for the Consulting Arborist</u>	Co-Author	The Consultant
<u>Collecting Geospatial Data</u>	Author	The Consultant
<u>Great Landscape Evergreens</u>	Forward	Ball Publishing Inc.
<u>Tri-State Top Ten</u>	Consultant & Author	Sunset Publications
<u>The American Nature Book,</u>	General Consultant	Reader's Digest, Pleasantville, NY
<u>1001 Tips and Tricks for Your Garden</u>	General Consultant	Reader's Digest, Pleasantville, NY
<u>Decline of Taxus at The New York Botanical Garden</u>		Primary Investigator
<u>Selecting a Lawn Sprinkler</u>	Author	Garden Design Magazine
<u>Soil Testing</u>	Author	Fine Gardening Magazine
<u>Recognition of Potentially Hazardous Trees</u>	Author	Fine Gardening Magazine
<u>Tool</u>	Monthly Opinion Column	Garden Design Magazine

Miscellaneous

<u>Arborist of Record</u>	Lewisboro, NY
<u>Expert Witness</u>	Qualified by the civil trial Courts of the State of New York, Connecticut and New Jersey, and New York Court of Claims as an expert in arboriculture, forensic arboriculture, plant identification, cartography, botany, and horticulture. <u>References upon request</u>

Volunteerism

<u>Board of Governors</u>	New York State Arborists Association
<u>Chair – Education Committee</u>	New York State Arborists Association
<u>Member – Advocacy Committee</u>	New York State Arborists Association
<u>Member – Membership Committee</u>	New York State Arborists Association
<u>Seed Collector – Northeastern United States</u>	The Royal Botanic Garden – Kew, Richmond, Surrey, England
<u>Admissions Committee</u>	The School of Professional Horticulture, The New York Botanical Garden
<u>Committee Member</u>	International Society of Arboriculture, Annual Conference, Stamford CT.
<u>Elder</u>	Cornerstone Bible Church, River Vale, NJ