

May 23rd, 2023

Ms.Brianne Harkousha Senior Planner City of Pacifica 540 Crespi Dr. Pacifica, CA 94044

RE: 1164 Rosita Road Tree Removal Application

Brianne

NCE has reviewed the Arborist Report and Tree Risk Assessment form prepared by Kevin Pineda, ISA Certified Arborist and found the Report and Tree Risk Assessment in compliance with the City of Pacifica's Chapter 12-Tree Preservation Ordinance of the City of Pacifica's Municipal Code.

Please contact me if you have any questions.

Sincerely,

NCE

matto S.C.

Matthew Gaber RLA Principal Landscape Architect cc: Lisa Peterson Christian Murdoch Bob Palacio

> Oakland, CA 5253 College Ave, Suite B Oakland, CA 94618 (510) 250-9189

www.ncenet.com

Engineering & Environmental Services

Arborist Report

Tree Risk Assessment

1164 Rosita Road Pacifica, CA 94044

March 20, 2023



Prepared for the homeowner: JanNice P Hanlon 1164 Rosita Rd. Pacifica, CA 94044

Prepared by: Kevin Pineda ISA Certified Arborist pinedakevin1990@gmail.com with Donald Cox, advisor ISA Certified Arborist drtreelove@gmail.com

Arborist Assignment

Kevin Pineda and Don Cox, independent certified-arborist associates, have been contracted by the owner of the property at 1164 Rosita Road in Pacifica, CA, to assess a tree on the residential property in relation to a concern of the property owner as well as from a next-door neighbor about potential risk of tree structural failure and property damage. The arborist site visit by Kevin Pineda took place March 4.

Plans, laws, and standards used for site and tree assessment:

City of Pacifica Municipal Code Chapter 12. – Tree Preservation

Best Management Practices: Tree Risk Assessment (2nd Edition 2017) (A publication of the International Society of Arboriculture)

Best Management Practices: Managing Trees During Construction (2nd Edition 2016) (A publication of the International Society of Arboriculture)

Summary Of Tree Assessment

One large Monterey cypress tree (*Hesperocyparis macrocarpa*) is located in the rear yard and adjacent to a new retaining wall and a fence, which borders a neighboring property to the rear.

The subject tree is only **half a tree**, due to structural deformity and canopy growth restrictions which resulted from crowding with a previously adjacent tree and topping. It is over-mature and over-grown for the small site.

With the one-sided canopy and scaffold branch structure, the tree is overweighted and leaning toward the neighbor's property to the rear. The one-sided over-weighting presents a risk of structural failure and wind-throw tree toppling. There is no possibility of re-establishing canopy growth and balance in weight distribution within a reasonable amount of time for preventive management.

History of the new retaining wall construction and tree root damage impacts are unknown and are a large concern for tree structural integrity. It is obvious that the recommended tree protection zone has been violated and therefore compromised the structural root plate and anchoring capacity.

Entire tree removal is required to abate risk and replant with a more suitable species for the site.

Regulated Trees In The City Of Pacifica

Sec. 4-12.02. - Definitions.

"Protected tree" shall mean and include:

All trees on public and private property within the City of Pacifica, which have a trunk with a diameter of twelve (12") inches or greater at DBH.

Any heritage tree designated by the Director.

Any grove of trees.

Eucalyptus and any species determined invasive by the California Invasive Plants Council are not protected by this chapter, except groves of trees and as the director may deem otherwise.

Sec. 4-12-08. - Designation of heritage trees.

Ord. No. 88-C.S., § 2, effective October 12, 2022, repealed ch. 12, §§ 4-12.1—4-12.11 and enacted a new ch. 12 as set out herein.

All trees currently known to meet the following criteria within the City of Pacifica are hereby designated as heritage trees:

- Any trees that are of the species *Quercus agrifolia* (coast live oak), *Quercus lobata* (valley oak), *Aesculus californica* (California buckeye), *Pinus radiata* (Monterey pine), or *Sequoia sempervirens* (redwood), which have a trunk diameter of twelve (12") inches or more; or
- Any trees that are of the species *Heteromeles arbutifolia* (toyon) which have a trunk diameter of four (4") inches DBH or more.
- The Director may also designate heritage trees that meet any of the following criteria:
- Tree(s) of historic value; Specimen tree(s) of any species; Any tree of substantial size of its species; is one of the largest and oldest trees in Pacifica; or Significant habitat value.

Subject Tree Description

Monterey cypress (Hesperocyparis macrocarpa)

Size: 60-inches in trunk diameter at breast height. 60-feet in height'

Age and Condition: Over-mature, estimate 70 years old. Fair physiological health, poor structural condition. **There is existing moderate risk of structural failure**, due to size and entirely imbalanced canopy, structural defects, with exposure to high-wind storm events off the nearby Pacific Ocean.

City Code Protection Status: A "Protected tree" by City Ordinance Definition (... a trunk with a diameter of twelve (12") inches or greater at DBH.)

Not classified as a 'heritage tree' according to current ordinance definition.

Potential construction impacts: Significant damage to the tree would be inevitable with any root cutting, grading and paving or other construction within the recommended TPZ. This can result in severe negative physiological impact and possible destabilization contributing to structural failure. (This has already occurred.)

Risk and potential targets:

Tree parts most likely to fail: One or more entire vertical stems with foliar crown, or entire tree. Targets for falling tree parts: Property of neighbor to the rear.

TPZ: A Tree Protection Zone recommendation is **25-feet** distance from the tree trunk in all directions as a non-intrusion, no root cutting zone for tree preservation.



One-sided large cypress with heavy lean and structural defects.



Compromised root plate. Root cutting at less than eight feet from the tree trunk.



Leaning one-sided tree with multiple co-dominant stems – prone to failure Compromised structural root zone

ARBORIST RECOMMENDATIONS

Considering the compromised structural condition of the subject tree (structural defects and root-zone excavation), there is risk of structural failure and impact on high-value potential targets for a falling tree or tree parts. Tree removal and replacement with a suitable species should be considered.

The recommendation is for pre-emptive hazard abatement, to eliminate the risk of catastrophic property damage and personal injury. Remove and replace with one or two medium-size evergreen trees that are more in scale with the residential site, and will be much safer over the next 20 years or more.

Suggestions for replacement trees:

Red flowering gum *Corymbia ficifolia* (*Preferred - red flower variety is spectacular*)

Eucalyptus "willow-leaf peppermint" *Eucalyptus nicholii* (second preference – beautiful tree but not known for flowering)

Other possibilities:

New Zealand Christmas tree Metrosideros excelsa

Southern magnolia Magnolia grandiflora 'Majestic Beauty' or 'Little Gem'

Brisbane box Lophostemon confertus

Arborist Disclosure Statement:

Arborists are tree specialists who use their education, knowledge, training, and experience to examine trees, recommend measures to enhance the beauty and health of trees, and attempt to reduce the risk of living near trees. Clients may choose to accept or disregard the recommendations of the arborist, or to seek additional advice.

Arborists cannot detect every condition that could lead to the structural failure of a tree. Trees are living organisms that fail in ways that we sometimes do not fully understand. Conditions are often hidden within trees and below ground.

Arborists cannot guarantee that a tree will be healthy or safe under all circumstances, or for a specified period of time. Likewise, remedial treatments cannot be guaranteed.

Treatment, pruning, and removal of trees may involve considerations beyond the scope of the arborist's services such as property boundaries, property ownership, site lines, disputes between neighbors, and other issues. Arborists cannot take such considerations into account unless complete and accurate information is disclosed to the arborist.

Trees can be managed, but all factors cannot be controlled. To live near trees is to accept some degree of risk.

Information contained in this report covers only those items that were examined and reflects the conditions of those items at the time of inspection.

The inspection is limited to visual examination of accessible items without dissection, excavation, probing, or coring. There is no warranty or guarantee, expressed or implied, that problems or deficiencies of the plants or property in question may not arise in the future.

Certification:

We hereby certify that all the statements of fact in this report are true, complete, and correct to the best of our knowledge and belief, and are made in good faith, in the best interests of the trees, the property owners and the community.

Keem Pinele

Kevin Pineda ISA Certified Arborist WE-12118A Tree Risk Assessment Qualification

DWCox

Donald W. Cox, ISA Board Certified Master Arborist WE-3023BUM

ISA Basic Tree Risk Assessment Form

Client			Date		Tii	me			
Address /	Tree location		Tre	e no.		Sheet	of		
Tree spec	cies	dbh	Height	Cre	own sp	read dia.			
Assessor((s)	Time frame	Tool	s used					
	Та	arget Assessment							
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2									
3									
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		Site Factors							
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Recent or	planned change in load factors Tree Defects and Condit	tions Affecting the	Likelihood of Fa	ailure					
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Matrix 2. Risk rating matrix.										_																
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Notes, explanations, descriptions																	(

Inspection limitations
None
Visibility
Access
Vines
Root collar buried Describe