

# Arborist Report: Tukwila Village

Prepared for

Mel Easter, ASLA The LA Studio 15200 52<sup>nd</sup> Ave S, Suite 210 Seattle, WA 98188

Site visit:

September 13, 2011

Prepared by

Tina Cohen, I.S.A. Certified Arborist #PN0245A Northwest Arborvitae

Report date:

September 16, 2011







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## Tina Cohen, Certified Arborist

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September 16, 2011

Mel Easter, ASLA The LA Studio 15200 52<sup>nd</sup> Ave S, Suite 210 Seattle, WA 98188

#### **Arborist Services**

Re: Tukwila Village, International Blvd & S. 144<sup>th</sup> Street, Tukwila, WA

Site visit: 9/13/11

Dear Mr. Easter:

On September 13, 2011 we met on site along with Jessica Marquardt from your office. I received the site survey, and evaluated the on-site trees. The purpose was to determine which trees are the healthiest and best candidates for retention.

### Scope of Work

I determined the health, structure, life span, overall quality, positive or negative impacts on long – term survival, and positive or negative impacts to the development. The information is intended to guide the design as decisions are made about preserving or removing trees. I understand that the City of Tukwila does not have any tree preservation requirements, only guidelines.

#### **Summary of Tree Health**

The majority of the site trees are drought stressed, excessively pruned, and/or unaesthetic. I noted only 5 superior trees worth special retention consideration out of 59 trees evaluated. This project is an excellent opportunity to replace declining trees with vigorous, appropriate species.

- North trees, north of the matchline, #1-18, 45-47: These are all unaesthetic and in marginal health. The exception is fir #18, which somehow escaped damage during the construction of the adjacent apartment building to the east.
- East trees, #19-24: These are benefiting from the irrigation from the adjacent library's lawn and are the most vigorous on the site. See the photo on page 5.





- North of S. 144<sup>th</sup> St.: The trees are dying or very stressed from wounds, excess pruning, and drought. See the photo on page 6. The exception is Coast redwood #32; even with graffiti on the trunk it stands out as a superior tree. It can grow to 200 feet and live 300 years. This species is tolerant of disturbance.
- Trees along S. 144<sup>th</sup> St.: Most were excessively pruned. The Lombardy poplars, although mostly healthy, are short lived (about 75-100 years) and are not the best candidates for retention for this reason. The London planes vary in condition, but they are long-lived (200+ years) and very tolerant of root and canopy damage.
- South of S. 144<sup>th</sup> St.: The cedars adjacent to the barbershop have been excessively limbed up. The trunks are growing into the concrete bulkhead. They will tolerate these conditions, although the cut stumps of four adjacent cedars indicate the owner does not. Coast redwood #35 at the far southwest corner of the site is healthy.
- West ROW along International Blvd: The hybrid Norway maples in the sidewalk vaults are healthy although drought stressed. Eventually they'll fill out to help soften the visual impact from the busy arterial. Two Red oaks are dying from drought, as noted on the site plan.
- West on site: The Incense cedars are healthy with only two appearing stressed. They're a good choice for this location because they rarely damage sidewalks. They are small enough to transplant assuming they'll get water while being held for replanting.

## Details of Findings – Explanation of spreadsheet terms.

Please see the following fields on the enclosed Excel spreadsheet.

Tree #: Each tree is numbered corresponding to the site plan.

Species: Common names are listed.

Trunk diameter: I measured the trunk diameter inches at 4.5 feet from the ground if the

survey didn't provide it.

Health rating: Healthy = normal vigor and appearance for the species (these will be the

best candidates for retention); Healthy fair = viable but not necessarily the best tree for retention; Poor = not healthy, in decline; Dying = will not

survive another year.

Structure: Characterizes the general shape of the tree. 'Codominant' refers to having

two or more trunks or tops that are parallel, versus a single trunk. Many

species do this naturally.

Comment: The comment provides an opinion regarding esthetics and in the case of the

incense cedars, transplant information.

Canopy radius: I measured the extent of the canopy (its radius) from the trunk to the outer

edge. This is a rule of thumb for distance to place protection fencing and

stay away from a tree during construction.

Current status: Viable refers to being alive now and remaining so into the future, assuming

it would be protected during the project. Non-viable means the tree will not

survive long term, whether or not it's protected.





Retention info:

This will help you decide/justify if a particular tree should be saved or not. If a tree is noted as Superior, it should be saved if possible. Tolerant species will accept root loss; sensitive species are likely to decline.

#### Recommendations by Area

East: The best trees on the site are near the east property line, adjacent to the irrigated King County Library lawn. I recommend saving maple #20 and cedar #21, and protect them as a group at their dripline radii. Fir #18 is also worth saving if the design will allow it.

West: The incense cedars are small enough and worthy to transplant except for multi-trunked specimens, or trees that are stressed. The ROW hybrid Norway maples should be retained and protected during the project. Replace the two ROW Red oaks with maples because of their condition.

Central/southwest: The two Coast redwoods #32 and #35 are worth saving if they will have enough space to grow. These are very young trees.

Along 144<sup>th</sup> Street: The poplars are short-lived and not worth special design changes to accommodate them. If you decide to retain the most east poplars #23 and #24, they should be further inspected when the ivy is cleared.

The London planes #36-39 will tolerate nearly any amount of disturbance and can be retained except for #38, which leans towards the street. They're young but already provide shade along the street. Consider if they have enough root space during the design process because they're well known for buckling sidewalks.

#### Conclusion

There really aren't very many trees worth saving on this site. They've suffered from excessive pruning, trunk wounds, and drought. The superior trees clustered near the east property line should be considered for retention. The small incense cedars near the west property line are tolerating the dry conditions and should be used elsewhere on the project. If there will be space for the Coast redwoods, they would create quite a statement in the new landscape.

#### Limits

Unless expressed otherwise (1) information contained in this report covers only those items that were examined and reflects the condition of those items at the time of inspection, and (2) the inspection is limited to visual examination of accessible items without further dissection, excavation, probing, or coring.

Loss or alteration of any part of a report invalidates the entire report.

Notwithstanding the recommendations and conclusions made in this report, it must be realized that trees are living organisms and their health and vigor constantly change over time. They are not immune to changes in site conditions or seasonal variations in the weather.





There is no warranty or guarantee expressed or implied, that problems or deficiencies of the trees in question may not arise in the future. The report and conclusions expressed herein represent the opinion of Tina Cohen d/b/a Northwest Arborvitae. Our fee is no way contingent upon any specified value, a result or occurrence of a subsequent event, or upon any finding to be reported.

Respectfully submitted,

Tina Cohen, ISA Certified Arborist #PN0245A

American Society of Consulting Arborists, Registered Consulting Arborist #473

PNW ISA Certified Tree Risk Assessor #194

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Enclosures
Excel spreadsheet 'Tukwila Village Tree Data'
Site plan via postal mail







Trees near the east property line fence, north of S. 144<sup>th</sup>, are the healthiest because they receive irrigation from the adjacent library property.

From the left the on site trees are #19 Lawson cypress, #20 Bigleaf maple, and #21 Western red

cedar.







The left tree is Doug fir #41. It's dying because of damage from the asphalt poured over the roots. The right tree is Western red cedar #42 which has been excessively pruned. Many of the on site trees suffered extreme limbing and are unaesthetic.

The tree in the distance, to the left of the salmon-colored building, is Coast redwood #35. It's in good health and should be retained assuming there's enough space for its roots and canopy.





Tukwila Village Tree Data by Tina Cohen, Certified Arborist

Site visit 9/13/11

THE PERSON NAMED IN	STREET, STREET	Trunk diam				Canopy RADIUS		
Tree #	Species	inches	Health rating	Structure	Comment	feet	Current status	Retention info
-		5		Excess limbing	5555	6	Viable	tolerant species
2	Pear	4	healthy fair	codominant trunks		6	Viable	tolerant species
3	Pear	10	healthy	Excess limbing		6	Viable	tolerant species
	Apple		healthy fair	Excess limbing	not esthetic	6	Viable	tolerant species
5	cedar, w red	4	dying	Knocked over		5	Non-viable	remove unhealthy
9	Hornbeam	rc	healthy fair	codominant trunks	poor esthetics, ugly	တ	Viable	tolerant species
				:	dead top, drought	,	:	3
7	cedar, w red	12	dying	Excess Imbing	ALL	17	Non-Viable	remove unnealiny
8	cedar, w red	14	dying	Excess limbing		13	Non-viable	remove unhealthy
6	cedar, w red	23	healthy fair	Excess limbing		14	Viable	sensitive species
9	cedar, w red	12	healthy fair	Excess limbing		12	Viable	sensitive species
1	cedar, w red	12	healthy fair	Excess limbing	trunk wounded	15	Non-viable	remove unhealthy
					must save group or			
12	cedar, w red	14	healthy	Excess limbing	none	14	Viable	sensitive species
13	cedar, w red	12	poor	Excess limbing	dead top	13	Non-viable	remove unhealthy
14	cedar, w red	14,8	poor	codominant trunks	drought	12	Non-viable	remove unhealthy
15	cedar, w red	8	poor	Excess limbing	papunom	9	Non-viable	remove unhealthy
(	i.	ć		: :: :: ::	impacted by	, ,	, civ	000000
10	Doug III	14	nealury fall	Prokon ton	16 17 effected	17	Viable	remove unhealthy
18	Doug iii	7	healthy	OK INDIA	hest of aroun	16	Viable	SI IPERIOR tree
2 5	III BOOK	5 6	hoolthy fair	codominant transfer	paral world	2 0	Non-viable	consitivo enocios
<u> </u>	Lawson cypress	17	nealthy lan	COCOLINITIANIC CICILIAS	Dasai Would	40	1 Kabla	SCHOOL STORY
20	maple bigleat	29	healthy	codominant trunks		GL ()	Viable	SUPERIOR Tree
21	cedar, w red	43	healthy	codominant trunks		18	Viable	SUPERIOR tree
22	Portuguese laurel	12	healthy	codominant trunks	vigu	10	Viable	tolerant species
					ivy prevented full			
23	Lombardy poplar	45	healthy	OK	inspection	18	Viable	Short lived species
77	l ombardy poplar	48	healthy	OK		45	Viable	Short lived species
25	ombardy poplar	9.	healthy fair	Excess limbing	if saving recheck	10	Viable	Short lived species
36	l omhardy nonlar	98	healthy fair	Excess limbing		<u> </u>	Viable	Short lived species
27	Lombardy poplar	36	healthy fair	Excess limbing		10	Viable	Short lived species
28	Lombardy poplar	36,24	healthy fair	codominant trunks		15	Viable	Short lived species

Tukwila Village Tree Data by Tina Cohen, Certified Arborist

Site visit 9/13/11

Health rating         Structure         Comment         feet         Current status           dying         OK         suppressed         6         Non-viable           healthy         Excess limbing         trunk wounds         15         Non-viable           healthy         Excess limbing         trunk wounds         21         Viable           healthy fair         codominant trunks         ugly         16         Viable           healthy fair         codominant trunks         ugly         16         Viable           healthy fair         codominant trunks         ugly         15         Viable           healthy fair         Excess limbing         ants         Viable           poor         codominant trunks         stump sprout         15         Viable           poor         codominant trunks         stump sprout         12         Non-viable           poor         codominant trunks         stump sprout         12         Non-viable           poor			Trunk diam				Canopy RADIUS		
Lawson orpress         8 dying         OK         Isuppressed         6 Non-viable           Londbardy poplar         3.2 healthy fair         Excess limbing         besal wounds         15 Non-viable           Cosper beech         40 healthy fair         Excess limbing         bross limbing         10 Viable           cost redwood         40 healthy fair         codominant trunks         16 Non-viable         Viable           cedar, wred         18 healthy fair         codominant trunks         40jk wall, adia bit wounded         16 Viable           London plane         17 healthy fair         codominant trunks         40jk wall, adia bit wounded         15 Viable           London plane         17 healthy fair         Codominant trunks         codominant trunks         company deback         18 Viable           London plane         18 healthy fair         Excess limbing	Tree #	_	inches	ьга	Structure	Comment	feet		Retention info
Lombardy poplar         3.2         healthy fair         Excess limbing         trunk wounds         15         Non-visible           Copper beech         8         healthy         Excess limbing         trunk wounds         10         Viable           coedar, w red         18         healthy fair         codominant tunks         10         Viable           Coast redwood         3.5         healthy fair         codominant tunks         16         Viable           London plane         16         healthy fair         codominant tunks         15         Viable           London plane         16         healthy fair         codominant tunks         15         Viable           London plane         16         healthy fair         Excess limbing         15         Viable           London plane         16         healthy fair         Excess limbing         15         Non-viable           London plane         16         healthy fair         Excess limbing         15         Non-viable           London plane         16         healthy fair         Excess limbing         15         Non-viable           London plane         16         healthy fair         Excess limbing         16         Non-viable           London p	29	Lawson cypress	œ	ı	OK	suppressed	9	Non-viable	remove unhealthy
Copper beech         8         healthy         Excess limbing         trunk wounds         10         Viable           Coast redwood         40         healthy fair         codominant trunks         10         Viable         Viable           cedar, w red         38         healthy fair         codominant trunks         16         Viable         Viable           Coast redwood         32         healthy fair         codominant trunks         16         Viable         Viable           London plane         16         healthy fair         Excess limbing         ants         15         Viable           London plane         16         healthy fair         Excess limbing         ants         Viable         Viable           London plane         16         healthy fair         Excess limbing         ants         Viable         Viable           London plane         16         healthy fair         Excess limbing         ants         Viable         Viable           London plane         16         healthy fair         Excess limbing         lens south         15         Non-viable           London plane         18         healthy fair         Excess limbing         lens south         15         Non-viable           Co	30	Lombardy poplar	32	healthy fair	Excess limbing	basal wounds	15	Non-viable	remove unhealthy
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Colo spruce         32         healthy fair         Excess limbing         frunk tore away         frunk tore away         frunk tore away         Trunk tore away         Trunk tore away         18         Non-viable           Mt ash         22         poor         codominant trunks         poor canopy         18         Non-viable           E dogwood         6         dying         OK         tambinachose         5         Non-viable           incense cedar         8         healthy         OK         transplant         4         Viable           incense cedar         5         healthy         OK         transplant         3         Viable           incense cedar         3         healthy         OK         transplant         3         Viable           incense cedar         5         healthy         OK         transplant         3         Viable           incense cedar         6         healthy         OK         transplant         3         Viable           incense cedar         6         healthy         OK         transplant         6         Viable           incense cedar         6         healthy         OK         transplant         4         Viable           inc		cedar, w red	18.18.18	ıy fai	codominant trunks	ugly. trunk wounded	15	Viable	sensitive species
Sweetgum         30         poor         Trunk tore away         stump sprout         18         Non-viable           Mt ash         22         poor         codominant trunks         poor canopy         18         Non-viable           E dogwood         6         dying         OK         anthrachose         5         Non-viable           incense cedar         8         healthy         OK         transplant         4         Viable           incense cedar         5         healthy         codominant top         transplant         4         Viable           incense cedar         5         healthy         OK         transplant         6         Viable           incense cedar         6         healthy         OK         transplant         3         Viable           incense cedar         6         healthy         OK         transplant         4		Colo spruce	32	healthy fair	Excess limbing	trunk wounded	15	Viable	sensitive species
Mt ash         6         poor         codominant trunks         stump sprout         12         Non-viable           Mt ash         22         poor         codominant trunks         extensive wounds, anthracrose bord canopy         18         Non-viable           E dogwood         6         dying         OK         transplant         4         Non-viable           incense cedar         8         healthy         OK         transplant         4         Viable           incense cedar         5         healthy         codominant top transplant         codominant top transplant         codominant top transplant         codominant top transplant         downstable to transplant         6         Viable           incense cedar         3         healthy         OK         transplant         3         Viable           incense cedar         6         healthy         OK         transplant         4 <t< td=""><td></td><td>Sweetgum</td><td>30</td><td>poor</td><td>Trunk tore away</td><td></td><td>18</td><td>Non-viable</td><td>remove unhealthy</td></t<>		Sweetgum	30	poor	Trunk tore away		18	Non-viable	remove unhealthy
Mt ash         22         poor         codominant trunks         poor canopy         18         Non-viable           E dogwood         6         dying         OK         transplant         4         Non-viable           incense cedar         5         healthy         OK         transplant         4         Viable           incense cedar         5         healthy         codominant top         transplant         6         Viable           incense cedar         3         healthy         OK         transplant         3         Viable           incense cedar         3         healthy         OK         transplant         3         Viable           incense cedar         6         healthy         OK         transplant         4         Viable           incense cedar         6         healthy         OK         transplant         4         Viable <td></td> <td>Mt ash</td> <td>9</td> <td>poor</td> <td>codominant trunks</td> <td>stump sprout</td> <td>12</td> <td>Non-viable</td> <td>remove unhealthy</td>		Mt ash	9	poor	codominant trunks	stump sprout	12	Non-viable	remove unhealthy
Mit ash         22         poor         codominant trunks         poor canopy         18         Non-viable           E dogwood         6         dying         OK         anthracnose         5         Non-viable           incense cedar         5         healthy         codominant top         transplant         4         Viable           incense cedar         5         healthy         codominant top         transplant         6         Viable           incense cedar         3         healthy         OK         transplant         3         Viable           incense cedar         6         healthy         OK         transplant         4         Viable           incense cedar         6         healthy         OK         transplant         4         Viable           incense cedar         6         healthy         OK         transplant         4	!					extensive wounds,			
E dogwood         6         dying         OK         anthracnose         5         Non-viable           incense cedar         5         healthy         OK         transplant         4         Viable           incense cedar         5         healthy         codominant top         transplant         6         Viable           incense cedar         3         healthy         OK         transplant         3         Viable           incense cedar         6         healthy         OK         transplant         3         Viable           incense cedar         6         healthy         OK         transplant         3         Viable           incense cedar         6         healthy         OK         transplant         6         Viable           incense cedar         6         healthy         OK         transplant         3         Viable           incense cedar         6         healthy         OK         transplant         3         Viable           incense cedar         6         healthy         OK         transplant         4         Viable           incense cedar         6         healthy         OK         transplant         4         Viable <td>46</td> <td>Mt ash</td> <td>22</td> <td>poor</td> <td>codominant trunks</td> <td>poor canopy</td> <td>18</td> <td>Non-viable</td> <td>remove unhealthy</td>	46	Mt ash	22	poor	codominant trunks	poor canopy	18	Non-viable	remove unhealthy
incense cedar         8         healthy         OK         transplant         4         Viable           incense cedar         5         healthy         codominant top         transplant         6         Viable           incense cedar         3         healthy         MUltiple trunks         transplant         3         Viable           incense cedar         6         healthy         OK         transplant         3         Viable           incense cedar         6         healthy         multiple trunks         transplant         3         Viable           incense cedar         6         healthy         OK         transplant         3         Viable           incense cedar         6         healthy         OK         transplant         3         Viable           incense cedar         6         healthy         OK         transplant         4         Viable           incense cedar         6         healthy         OK         transplant         4         Viable           incense cedar         6         healthy         OK         transplant         4         Viable	47	E dogwood	9	dying	OK	drought, anthracnose	5	Non-viable	remove unhealthy
incense cedar         5         healthy         codominant top suitable to suitable to         transplant to suitable to         MOT suitable to         Viable           incense cedar         3         healthy         OK         transplant         3         Viable           incense cedar         6         healthy         OK         transplant         6         Viable           incense cedar         6         healthy         OK         transplant         3         Viable           incense cedar         6         healthy         OK         transplant         3         Viable           incense cedar         6         healthy         OK         transplant         4         Viable           incense cedar         6         healthy         OK         transplant         4         Viable           incense cedar         6         healthy         OK         transplant         4         Viable	48	incense cedar	8	healthy	OK	transplant	4	Viable	SUPERIOR tree
incense cedar         5         healthy         codominant top incense cedar         transplant trunks         transplant trunks         6         Viable trunks           incense cedar         3         healthy         OK         transplant trunks         3         Viable           incense cedar         6         healthy         OK         transplant trunks         6         Viable           incense cedar         4         healthy         OK         transplant trunks         3         Viable           incense cedar         6         healthy         OK         transplant trunks         4         Viable           incense cedar         6         healthy         OK         transplant trunks         4         Viable           incense cedar         6         healthy         OK         transplant trunks         4         Viable           incense cedar         6         healthy         OK         transplant trunks         5.5         Viable						looks broken, NOT			P
incense cedar         3         healthy         multiple trunks         transplant transplant         3         Viable           incense cedar         6         healthy         OK         transplant         6         Viable           incense cedar         4         healthy         OK         transplant         3         Viable           incense cedar         6         healthy         OK         transplant         4         Viable           incense cedar         6         healthy         OK         transplant         4         Viable           incense cedar         6         healthy         OK         transplant         4         Viable           incense cedar         6         healthy         OK         transplant         5.5         Viable	49	incense cedar	5	healthy	codominant top	transplant	9	Viable	tolerant species
incense cedar         3         healthy         multiple trunks         transplant         3         Viable           incense cedar         6         healthy         OK         transplant         6         Viable           incense cedar         4         healthy         OK         transplant         3         Viable           incense cedar         6         healthy         OK         transplant         4         Viable           incense cedar         6         healthy         OK         transplant         4         Viable           incense cedar         6         healthy         OK         transplant         5.5         Viable	3					NOT suitable to			7
incense cedar         3         healthy         OK         transplant         3         Viable           incense cedar         6         healthy         OK         transplant         3         Viable           incense cedar         6         healthy         OK         transplant         4         Viable           incense cedar         6         healthy         OK         transplant         4         Viable           incense cedar         6         healthy         OK         transplant         5.5         Viable	50	incense cedar		healthy	multiple trunks	transplant	3	Viable	tolerant species
incense cedar         6         healthy         multiple trunks         transplant transplant         6         Viable           incense cedar         4         healthy         OK         transplant         3         Viable           incense cedar         6         healthy         OK         transplant         4         Viable           incense cedar         6         healthy         OK         transplant         5.5         Viable	51	incense cedar		healthy	OK	transplant	3	Viable	tolerant species
incense cedar         6         healthy         multiple trunks         transplant         6         Viable           incense cedar         4         healthy         OK         transplant         3         Viable           incense cedar         6         healthy         OK         transplant         4         Viable           incense cedar         6         healthy         OK         transplant         5.5         Viable						NOT suitable to			
incense cedar         4         healthy         OK         transplant         3         Viable           incense cedar         6         healthy         OK         transplant         4         Viable           incense cedar         6         healthy         OK         transplant         5.5         Viable	52	incense cedar	9	healthy	multiple trunks	transplant	9	Viable	tolerant species
incense cedar6healthyOKtransplant4Viableincense cedar6healthyOKtransplant5.5Viable	53	incense cedar	4	healthy	OK	transplant	°	Viable	SUPERIOR tree
incense cedar 6 healthy OK transplant 5.5 Viable	54	incense cedar	9	healthy	OK	transplant	4	Viable	SUPERIOR tree
	55	incense cedar		healthy	OK	transplant	5.5	Viable	tolerant species

See report for further explanation and summary of findings.

Tukwila Village Tree Data by Tina Cohen, Certified Arborist

Site visit 9/13/11

		Trunk diam				Canopy RADIUS		
Tree #	Tree # Species	inches	Health rating	Structure	Comment	feet	Current status   Retention info	Retention info
12			-		stunted, NOT			
					suitable to			
56	incense cedar	3	poor	OK	transplant	2	Non-viable	remove unhealthy
57	incense cedar	9	healthy	OK	transplant	4	Viable	tolerant species
					NOT suitable to			
28	incense cedar	4	healthy fair	codominant tops	transplant	2	Viable	tolerant species
					thin canopy, NOT			
					suitable to			
59	incense cedar	4	healthy fair	OK	transplant	3	Viable	tolerant species