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REVISED ARBORIST REPORT For 12631 Bell Street Mission, BC

Prepared for:

Florwest Developments

PO Box 21009 Maple Ridge, BC

V2X 1P7

Prepared by:

Bob Kwak

Certified Arborist ISA #PN-1736A Qualified Tree Risk Assessor

Date:

February 14, 2023





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Assignment

CVA (Central Valley Arborist Consulting) has been retained by Florwest Developments to revise and update the arborist reports for their proposed development site located at 12631 Bell Road, Mission BC. The following report has been prepared by Bob Kwak, (Certified Arborist).

Arborist consultations have been ongoing in relation to this development project since 2018. The clearing has been done and 25 residential lots have been parcelled out. At the request of our client, we have revisited the site to collect current data and to respond to a municipal request for more information.

Our assignments are:

- A) Identify and inventory any Hazard trees that will pose a high risk to the new infrastructure.
- B) Conduct a wind throw assessment of the retained forested areas.
- C) Estimates of Tree Coverage:
 - How many trees were on the site before disturbance?
 - How many trees have been removed?
 - Of the trees removed, how many located in the exempt area and how many are not.
 - The amount of trees removed from the non-exempted area is to be replaced at a 3:1 ratio; provide a calculation.
- D) Calculate the number of replacement trees.
 - The amount of trees removed from the non-exempted area are to be replaced at a 3:1 ratio; provide a calculation
- E) Provide a planting plan for the new lots and the cleared areas.
 - A tree replanting plan showing the general area of where the replacement trees are to be planted
 - The tree replanting plan should also show the general location of the 2 trees per lot requirement (use different symbol or color to differentiate these trees from the replacement trees)





Limits of Assignment

For this current report, CVA's arborists' were limited to site visits on several occasions between December 27, 2022 and January 17, 2023. We measured numerous sample plots in the forested areas near the cleared portions, identified hazardous trees, and conducted a wind throw assessment.

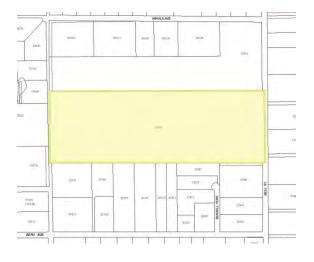
CVA located the trees using onsite navigation as there is no tree survey for this development. A Site Map prepared by Wade and Associates was supplied and contained the relevant information required for "Area" calculations.

Assignment Item "C" is an "after the fact request" involving estimates of the total number of trees on the site, the numbers of trees that have been cleared and the number of trees that have been over cleared. Due to the absence of a tree survey included with the Surveyors Topo, all estimates are based on the area's (M²) supplied by Wade & Associates clearing diagram.

Site Overview

The subject site is relatively level, with a Streamside Protection Enhancement Area (SPEA) that runs north to south through the property. Subsequently, there is a 10-meter setback from the creek and a 15-meter setback from wetland.

The majority of the eastern side of the property has been cleared over the years for farming by the settling family. Over time the property was selectively logged for a majority of the cedar for building material. There was also an overgrown skidder road that dissected the property that was absent of any trees.





Mission Map

Aerial View of Property (Google)





Part A

Hazard Tree Identification

For the hazard tree identification, we used the qualitative tree risk assessment method (TRAQ) as prescribed by the International Society of Arboriculture (ISA). Details are in the Tree Risk Assessment and Evaluation Summary table below. We performed a basic level two visual inspection (a 360-degree visual evaluation of a tree where the crown, trunk, trunk flare, above-ground roots, and site conditions are evaluated in regard to targets). While evaluating for probability of failure, we considered a time frame of within one year from the date of inspection.

We tagged the inventoried trees that did not already have tags on them, and their locations are indicated on the aerial photo included below.

Tree Risk Assessment

The current method of tree risk assessment according to industry standards involves the following steps:

- 1) Assess the likelihood of failure, of a whole tree or the part of it most likely to fail (imminent, probable, possible, or improbable);
- 2) Assess the likelihood that the failed tree or part would impact a target, i.e., a person, building, road, car, power line, etc. (very low, low, medium or high);

(this gives the likelihood of a failure to impact a target: unlikely, somewhat likely, likely or very likely)

- 3) Likelihood of failure and impact are then integrated with potential consequences (negligible, minor, significant or severe);
- 4) The end result being the risk rating for the tree or tree part (low, moderate, high or extreme)

This process is represented by two matrices:

Table 1 (Estimating likelihood of Impacting a Target)

Likelihood	Likelihood of Impacting Target								
of Failure	Very Low	Low	Medium	High					
Imminent	Unlikely	Somewhat likely	Likely	Very likely					
Probable	Unlikely	Unlikely	Somewhat likely	Likely					
Possible	Unlikely	Unlikely	Unlikely	Somewhat likely					
Improbable	Unlikely	Unlikely	Unlikely	Unlikely					

Table 2 (Likelihood of Failure and Impact)

T. J. J. C.		Consequ	WALLEY A	
Likelihood of Failure and Impact	Negligible	Severe		
Very Likely	Low	Moderate	High	Extreme
Likely	Low	Moderate	High	High
Somewhat likely	Low	Low	Moderate	Moderate
Unlikely	Low	Low	Low	Low





Part A

We identified 48 trees; 7 of them had surveyor tags on them, and the rest we attached our tag to (#1 to #41).

Of the 48 inventoried trees, 26 are recommended for removal due to the high risk they will pose to workers, future home owners, and the development area. (Out of those 26 trees, there are 15 that have suffered significant machine damage within their CRZ). The other 22 should be retained and monitored. Those trees were seen to have some initial symptoms of stress, but in my opinion should be able to safely remain. It is recommended that the retained and monitor trees be assessed again in one year, February 2024. One of the inventoried trees is within the SPEA; it is the big-leaf maple, #41, slated for retention and monitoring.

Tree Risk Assessment Summary

Trees #2, #3, #96, #4, #5, #6, #7, #8, #273, #22, #23, #24, #60, #27, #28, #29, #30, #33, #34, #36, #89, #40,

#94, #41:

Likelihood of Failure: probable Likelihood of Impacting a Target: high

= Likelihood of Failure Impacting a Target: likely

Consequences: severe

= Tree Risk Rating: HIGH

Trees #1, #87, #35, #37, 39, #41:

Likelihood of Failure: possible
Likelihood of Impacting a Target: high

= Likelihood of Failure Impacting a Target: somewhat likely

Consequences: minor to severe

= Tree Risk Rating: MODERATE

Trees #9, #99, #10, #11, #12, #13, #14, #15, #16, #17, #18, #19, #20, #21, #25, #26, #31, #32, #38:

Likelihood of Failure: improbable

Likelihood of Impacting a Target: high

= Likelihood of Failure Impacting a Target: unlikely

Consequences: minor to severe

= Tree Risk Rating: LOW





Part B

Wind Throw Assessment

There is evidence of a wind throw concern along the north edge of the cut areas. We noted seven hemlock trees that had all blown over in the same direction, pointing to the north/northeast. This appeared rather recent, as we saw broken roots that had not yet oxidized. This has happened probably within the last few months to a year ago.

None of the trees that fell over would have hit any of the building footprint areas, and the forested portion along the south end of the property seems not to have had any wind thrown trees - the same goes for the forested area to the west of the clearing.

We conclude that wind throw is not a huge concern for the proposed new development, but we do caution that all trees should be assessed on a regular basis.

This concludes Part A and B of the report. The associated Tree Evaluation Summary can be found on Pages 24 to 30.





Part C

Estimates of Tree Coverage:

We noted a distinct difference in stand density throughout the project area necessitating the creation of two sets of density measurements. One set of sample plots for "standard density forest" and one set of sample plots for "lower density forest". In total, 33 sample plots were measured in the retained forest adjacent to cleared areas and the numbers of protected trees within these plots were counted in order to derive an average factor for our baseline calculations. (All measurements are in square meters (M²).

Referance Chart A on Page 12 for sample plot calculations. The resulting Factors are:

- Average Factor for Standard Density forest used is 0.0322 trees per M².
- Average Factor for Low Density forest used is 0.0089 trees per M².

Diagram of Low Density Areas and the location of the sample plots. Note: Spread sheet (Chart A) can be Found on Page 12 of this report. The inserted diagram below can be found on Page 20.







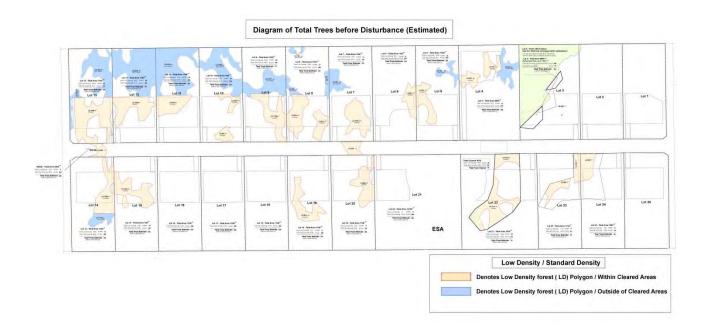
Part C

Tree Coverage before disturbance:

We have estimated the tree coverage before disturbance to be 4,142 trees including the road right of way. This calculation factors both standard density (SD) and lower density (LD) forest structure. Polygons of the lower density forest areas were created and the areas of the polygons were calculated in M².

A diagram containing all relevant information of the resulting areas can be found on Page 22. Chart B-2, which is a summary of areas calculated can be found on page 15 of this report.

Inserted below is a diagram of the Low Density Area Polygons; Blue represents the Low Density areas in the remaining forest and Orange represents the Low Density Areas within the Cleared areas. This plan can be found on Page 22.



Total number of trees removed and total number of trees over-cleared

Datum required for determining the number of trees removed:

- 1- Sample plot totals to derive tree densities. Located in Chart A, located on page 12.
- 2- Total number of sq² meters cleared. Supplied by Wade & Associates and can be found within the attached "Forest Density Basemap" located on Page 21.
- 3- Area (M²) of "Lower Density" forest structure. Polygon measurements can be located within the "Forest Density Basemap" located on Page 21.



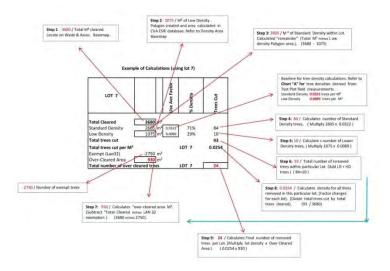


Part C

In order to accurately determine the estimated number of trees removed, we found that the calculations had to be broken down into a "Lot by Lot" basis. This is due to the overlapping of the Low Density and Standard density forest within the confines of the measurements supplied by Wade& Associates Basemap of cleared tree areas.

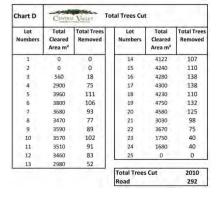
*Note: there is a slight difference in totals between the figures derived for "Total trees before disturbance" and "Total number of Trees removed". This is due to rounding errors. We are holding the numbers generated from the more stringent calculations show in Chart B-1.

Calculations: Below is a diagram demonstrating the strategies used for determining the final removed tree count. The calculation strategy chart B-1 can be located on Pages 13 and 14 of this report.



Estimate of Total Trees Removed.

We estimated that the total number of trees removed is 2,010 within the Lots, and an additional 292 trees within the dedicated road for a total of **2,302** trees. This Data is calculated during the procedure demonstrated in Chart B-1 (as above) and then extracted into Chart D. * see Chart D on Page 17.







Part D

Tree Replacement

The replacement requirements will be confirmed by the city in relation to their policies. The replacement trees must meet city requirements for minimum size at planting (i.e. 6 cm DBH for deciduous species and 3.0 meters height for coniferous species) and criteria.

We calculated that there were **549** trees over-cleared, therefore **1647** replacement trees are required. Additional replacement trees are required for various reasons that total **47**. The replacement categories are listed below;

- 3 replacement trees for each "over-cleared" tree. With **549** trees in the over cut area this totals **1647 replacement trees**.
- 3 replacement trees for each tree damaged by construction activities. There are **13** damaged trees totaling **39 replacements trees**.
- 4 replacement trees for each tree damaged by construction activities within the SPEA. There are **2** damaged trees within the SPEA, totaling **8 replacements trees.**

Total replacement trees = 1694. (See Planting Strategy Site Plan on Page 23 for suggested planting locations).

We did not include the space that was cleared for the roadway (9500 m²), as this will become a municipal street servicing all the homes, and is a necessary function of the new neighbourhood. Also, we understand that there was a Skidder road for logging that dissected the property. *See Below



Diagram showing Skidder road prior to lot clearing.

We also did not include a portion of the eastern side of the property which has been cleared over the years for farming by the settling family. This area is approximately 35,005 M².





Note; on most Air Photo's the SE corner of the property appears to be heavily bushed, however this area was infused with 2nd growth suckers and Blackberry bush. There were no significant trees.

Part D

All Charts relevant to determining tree replacement numbers can be located on Pages 12 to 18.

Part E

Planting Plan

Replacement Trees:

We have designed a planting strategy that places **1694** replacement trees (1647 from over-clearing) and (47 from excavator damage) along the North/South Lot boundaries and towards the back of Lots without overcrowding. **Note:** See Tree Replacement Detail Site Plan on Page 23.

We have included the **50** trees required by the "2 trees per lot requirement" within the plan. The District of Mission has requested the 2 trees per lot be chosen from Group One list of trees as noted in LAN32. My recommendations would be 1 Douglas maple and 1 Yellow cedar on each lot. (Not included in replacement numbers)

We are also showing an approximate location for 53 Boulevard trees. (Not include in replacement numbers)

The final decision on replacement tree totals will be made by the District of Mission.

Suggestions for Replacement tree types:

For the required two trees for each new lot, we recommend some of the following deciduous ornamental species that would be able to thrive at this site:

- Raywood ash, Fraxinus oxycarpa 'Raywood'
- Autumn Applause ash, Fraxinus americana 'Autumn Applause'
- English oak, Quercus robur
- red oak, Quercus rubrum
- red horse-chestnut, Aesculus carnea

For the required replanting of the over-cleared areas, and replacements for the trees that need to be cut down due to machine damage in their CRZ, we suggest the following evergreen species:

- western red cedar, Thuja plicata
- yellow cedar, Chamaecyparis nootkatensis
- Douglas-fir, *Pseudotsuga menziesii*
- sitka spruce, Picea sitchensis
- western hemlock, Tsuga heterophylla





The tree stock and the installation work should conform to BC Landscape and Nursery (BCLNA) standards. Trees should be planted 1.5m to 2.0m away from buildings, driveways, roads, underground

Part E

Infrastructure, other trees, etc.

At time of planting, deciduous trees should be a minimum of 6cm in caliper (trunk diameter, measured 15cm up); evergreen trees should be a minimum of 3m in height.

Within the plan we have inserted the required 50 trees (2 per Lot), and have designed spacing for Boulevard trees. Neither of these is included in the replacement total.

Tree Protection Fences

In order to ensure that there was no further damage to existing trees; a 5 meter buffer zone was established on site and is marked with posts and signage. Prior to any excavation or construction activity within the 5M buffer zone, tree protection fences must be constructed at the specified distance from the tree trunks. The protection barrier or temporary fencing must be at least 1.2 meters in height and constructed of 2 by 4 lumber with orange plastic mesh screening. This must be constructed prior to tree removal, excavation or construction and remain intact throughout the entire period of construction. An arborist must be on site to inspect the protective fencing and to go over proper work procedures. (See attached Fencing Instructions located on page 35.

Limitations of Report

Sketches, diagrams, and photographs contained in this report being intended as visual aids, should not be constructed as engineering reports or legal surveys. Only the subject tree(s) was inspected and no others. This report does not imply or in any other way infer that other trees on this site or near this site are sound and healthy.

If there are any further questions, please do not hesitate to contact our office.

Respectfully submitted,

Bob Kwak

Certified Arborist PN #1736A

Qualified Tree Risk Assessor (TRAQ)

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12634 Bell Street, Notission BC **Schedule of Calculations** ENTRAL VALLEY Low and Standard Density Forest Structure ARBORIST CONSULTING LTD.

	Calculations :			st structure ts)		e Calculation ructure (bas			=
Lot	Sample Size	Sq M	Orientation	# Trees	Lot	Sample Size	Sq M	Orientation	# Trees
1	N/A	•		0	1	N/A	0	•	0
2	N/A			0	2	N/A	0		0
3	N/A			0	3	N/A	0		0
4	10x20	200	NS	3	4LD	10x20	200	NS	2
4	10x20	200	EW	2					
5	10x20	200	NS	2	5LD	10x20	200	NS	2
6	10x20	200	NS	5	6LD	10x20	200	NS	1
7	10x20	200	EW	6	7LD	10x20	200	NS	1
8	10x20	200	NS	7	8LD	10x20	200	NS	2
9	10x20	200	NS	8	9LD	10x20	200	EW	2
10	10x20	200	NS	10	10LD	10x20	200	EW	1
11	10x20	200	NS	5	11LD	10x20	200	EW	1
12	10x20	200	EW	4	12LD	10x20	200	EW	2
13	10x20	200	EW	3	13LD	10x20	200	EW	2
14 15	10x20	200	NS	4	14LD	10x20	200	NS	2
15 16	10x20 10x20	200	NS NS	12 10	15LD 16LD	10x20	200	NS	3 0
16		200				N/A			-
17	10x20	200	EW	12	17LD	N/A			0
18	10x20	200	EW	8	18LD	N/A			0
19	10x20	200	NS	6	19LD	10x20	200	NS	2
20	10x20	200	NS	8	20LD	10x20	200	NS	2
21	10x20	200	EW	5	21LD	N/A	0		
22	5x10	50	NS	4	22LD	N/A	0		
23	N/A			0	23LD	N/A	0		0
24	N/A			0	24LD	N/A	0		0
25	N/A			0	25LD	N/A	0		0
	Standard Fore	st density c	alculatio	n		Lower Fores	t density ca	culation	
		Total Sq.		Total Trees			Total Sq.		Total Trees
		meters					meters		
otal Sq. met	ers	3850		124	Total Sq. mete	ers	2800		25
tandard De	nsity Factor:	(124 / 385	.O)	0.0322	Low Density F	actor:	(25 / 2800)	0.0089

ATTACHMENT A: ARBORIST REPORT 12631 Bell Street, Mission BC

Over-cleared Tree Calculations by Lot



Chart B-1 (2 pages)	Ť											
LOT 1 EXEMPT	Use "Ave"	Factor % Density	Trees Cut	LOT 2 EXEMPT		Use "Ave" Factor	% Density	Trees Cut					
Total Cleared Standard Density Low Density Total number of ove	0 m ² 0 m ² 0 m ² er cleared trees	LOT 1	0 0	Total Cleared Standard Density Low Density Total number of over clea	0 m ² 0 m ² 0 m ² ared trees		LOT 2	0 0					
LOT 3 EXEMPT	Use "Ave"	Factor % Density	Trees Cut	LOT 4		Use "Ave" Factor	% Density	Trees Cut	LOT 5		Use Ave Factor	% Density	Trees Cut
Total Cleared Standard Density Low Density Total trees cut Total trees cut per N Exempt (Lan32) Over-Cleared Area Total number of over	-2750 m ² -2190 m ²		18 0 18 0.0322	Total Cleared Standard Density Low Density Total trees cut Total trees cut per M² Exempt (Lan32) Over-Cleared Area Total number of over clea	2900 m ² 2114 m ² 786 m ² -2750 m ² 150 m ² ared trees		73% 27% LOT 4	68 7 75 0.0259	Total Cleared Standard Density Low Density Total trees cut Total trees cut per M Exempt (Lan32) Over-Cleared Area Total number of over	-2750 m ²	0.0089	82% 18% LOT 5	105 6 111 0.0281
LOT 6	Use Ave	Factor % Density	Trees Cut	LOT 7		Use Ave Factor	% Density	Trees Cut	LOT 8		Use Ave Factor	% Density	Trees Cut
Total Cleared Standard Density Low Density Total trees cut Total trees cut per N Exempt (Lan32) Over-Cleared Area Total number of ove	-2750 m ² 1050 m ²		100 6 106 0.0280	Total Cleared Standard Density Low Density Total trees cut Total trees cut per M ² Exempt (Lan32) Over-Cleared Area Total number of over clear	3680 m ² 2605 m ² 1075 m ² -2750 m ² 930 m ² red trees		71% 29% LOT 7	84 10 93 0.0254	Total Cleared Standard Density Low Density Total trees cut Total trees cut per M Exempt (Lan32) Over-Cleared Area Total number of over	-2750 m ²	0.0089	57% 43% LOT 8	64 13 77 0.0222
LOT 9	Use Ave	Factor % Density	Trees Cut	LOT 10		Use Ave Factor	% Density	Trees Cut	LOT 11		Use Ave Factor	% Density	Trees Cut
Total Cleared Standard Density Low Density Total trees cut Total trees cut per N Exempt (Lan32) Over-Cleared Area Total number of over	-2750 m ² 840 m ²		79 10 89 0.0249	Total Cleared Standard Density Low Density Total trees cut Total trees cut per M ² Exempt (Lan32) Over-Cleared Area Total number of over clear	3570 m ² 2998 m ² 572 m ² -2750 m ² 820 m ² ared trees		84% 16% LOT 10	97 5 102 0.0285	Total Cleared Standard Density Low Density Total trees cut Total trees cut per M Exempt (Lan32) Over-Cleared Area Total number of over	-2750 m ²	0.0089	74% 26% LOT 11	83 8 91 0.0260
LOT 12	Use Ave	Factor % Density	Trees Cut	LOT 13		Use Ave Factor	% Density	Trees Cut	LOT 14		Use Ave Factor	% Density	Trees Cut
Total Cleared Standard Density Low Density Total trees cut Total trees cut per N Exempt (Lan32) Over-Cleared Area Total number of over	-2750 m ² 710 m ²	89 35%	72 11 83 0.0239	Total Cleared Standard Density Low Density Total trees cut Total trees cut per M² Exempt (Lan32) Over-Cleared Area Total number of over clea	2980 m ² 1085 m ² 1895 m ² -2750 m ² 230 m ² ired trees		36% 64% Lot 13	35 17 52 0.0174	Total Cleared Standard Density Low Density Total trees cut Total trees cut per M Exempt (Lan32) Over-Cleared Area Total number of over	-2750 m ²	0.0089	74% 26% Lot 14	98 10 107 0.0261

ATTACHMENT A: ARBORIST REPORT 12631 Bell Street, Mission BC

Over-cleared Tree Calculations by Lot



		1		1			_				r -				
LOT 15		Use Ave Factor	% Density	Trees Cut	LOT 16			Use Ave Factor	% Density	Trees Cut	LOT 17		Use Ave Factor	% Density	Trees Cut
Total Cleared Standard Density Low Density Total trees cut Total trees cut per M Exempt (Lan32) Over-Cleared Area Total number of over	-2750 m ²	2 0.0322 2 0.0089	74% 26% LOT 15	100 10 110 0.0260	Total Cleared Standard Density Low Density Total trees cut Total trees cut per M² Exempt (Lan32) Over-Cleared Area Total number of over clear	-2750 1530	m² m² m² m²	0.0322 0.0089	100% 0% LOT 16	138 0 138 0.0322	Standard Density 4: Low Density Total trees cut Total trees cut per M ² Exempt (Lan32) -2	750 m² 550 m²	0.0089	100% 0% LOT 17	138 0 138 0.0322
LOT 18		Use Ave Factor	% Density	Trees Cut	LOT 19			Use Ave Factor	% Density	Trees Cut	LOT 20		Use Ave Factor	% Density	Trees Cut
Total Cleared Standard Density Low Density Total trees cut Total trees cut per Mi Exempt (Lan32) Over-Cleared Area Total number of over	-2750 m ²	2 0.0322 2 0.0089	74% 26% LOT 18	100 10 110 0.0260	Total Cleared Standard Density Low Density Total trees cut Total trees cut per M² Exempt (Lan32) Over-Cleared Area Total number of over clear	4750 3838 912 -2750 2000 red trees	m² m² m²		81% 19% LOT 19	124 8 132 0.0277	Standard Density 35 Low Density 5 Total trees cut Total trees cut per M ² Exempt (Lan32) -27	580 m ² 598 m ² 982 m ² 750 m ² 830 m ² ared tre	0.0089	79% 21% LOT 20	116 9 125 0.0272
LOT 21		Use Ave Factor	% Density	Trees Cut	LOT 22			Use Ave Factor	% Density	Trees Cut	LOT 23 EXEMPT		Use Ave Factor	% Density	Trees Cut
Total Cleared Standard Density Low Density Total trees cut Total trees cut per Mi Exempt (Lan32) Over-Cleared Area Total number of over	-2750 m ² - 280 m ²	2 0.0322 2 0.0089	100% 0% LOT 21	98 0 98 0.0322	Total Cleared Standard Density Low Density Total trees cut Total trees cut per M² Exempt (Lan32) Over-Cleared Area Total number of over clear	-2750 920	m² m² m² m²	0.0322 0.0089	50% 50% LOT 22	59 16 75 0.0205	Standard Density 10 Low Density 7 Total trees cut Total trees cut per M² Exempt (Lan32) -27	750 m ² 034 m ² 716 m ² 750 m ² 000 m ² ared tre	0.0089	59% 41% LOT 23	33 6 40 0.0227
LOT 24 EXEMPT		Use Ave Factor	% Density	Trees Cut	LOT 25 EXEMPT			Use Ave Factor	% Density	Trees Cut	ROAD EXEMPT		Use Ave Factor	% Density	Trees Cut
Total Cleared Standard Density Low Density Total trees cut Total trees cut per Mi Exempt (Lan32) Over-Cleared Area Total number of over	-2750 m ² - 1070 m ²	2 0.0322 2 0.0089	65% 35% LOT 24	35 5 40 0.0239	Total Cleared Standard Density Low Density Total number of over clea	0	m² m² m²		LOT 25	0 0 0	Standard Density 85 Low Density 5 Total trees cut Total trees cut per M ² Exempt (Lan32)	500 m ² 905 m ² 595 m ² 0 m ² 500 m ² ared tre	0.0089	94% 6% ROAD	287 5 292 0.0307

CENTRAL VALLEY ARBORIST CONSULTING LTD.

12634 Bell Street, Notission BC Summary of Density Calculations (by lot)

Chart B-2 Summary of; Over Cleared Trees / Replacement Trees Required / **Total Area Cleared (by Lot)** *see chart B-1 for breakdown **Lot Numbers Total** Exempt **Over Cleared Total Over-**Replacement Cleared Clearing (M2) Area (m²) Cleared **Trees Required** Area m² LAN32 **Trees** (X3)**Total Cleared Exempt Clearing** Over Cleared Area Total Over-Replacement Area m² (M2) LAN32 Cleared Trees Trees Required (m²)(X3)76,112 56,240 19,872 **ROAD**



1/268/1HBellTStreetpHMission+BC **Total Trees before Disturbance Calculations (by lot)**

Chart C

Summary of Density Calculation (by Lot)

Lot	Total Lot m ²	Total M ² Low Density 0.0089	Total Trees Low Density	Total M ² Standard Density 0.0322	Total Trees Standard Density	Total Trees before Disturbance	Note
1	7100	-	Open		Open	0	-
2	7100		Open		Open	0	
3	9900	Special / Partia	l	5057	164	164	*see map
4	9900	1417	13	8483	273	286	
5	7100	1089	10	6011	194	204	
6	7100	681	6	6419	207	213	
7	7100	1559	14	5541	178	192	
8	7100	1959	17	5141	166	183	
9	7100	2235	20	4865	157	177	
10	7100	2171	19	4929	159	178	
11	7100	3115	28	3985	128	156	
12	7100	3930	35	3170	102	137	
13	7100	3479	31	3621	117	148	
14	7100	1496	13	5604	180	193	
15	7100	1120	10	5980	193	203	
16	7100	0		7100	229	229	
17	7100	0		7100	229	229	
18	7100	0		7100	229	229	
19	7100	912	8	6188	199	207	
20	7100	982	9	6118	197	206	
21	14100	0		14100	454	454	
22	12500	1844	16	1826	59	75	
23	7100	716	6	1034	33	39	
24	7100	596	5	1084	35	40	
25	7100		Open		Open	0	
	Estimated t	otal trees before	e disturbance	(not including ro	ad).	4,142]
ROAD	7100	595	5	8905	287	292	* Not included in replacement
	Estimated t	otal trees before	e disturbance	(including road).	ſ	4,434	1

4,434

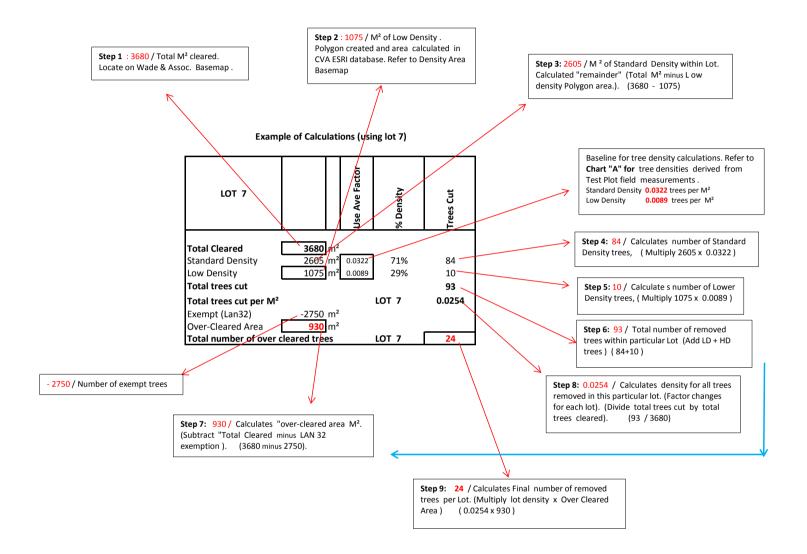


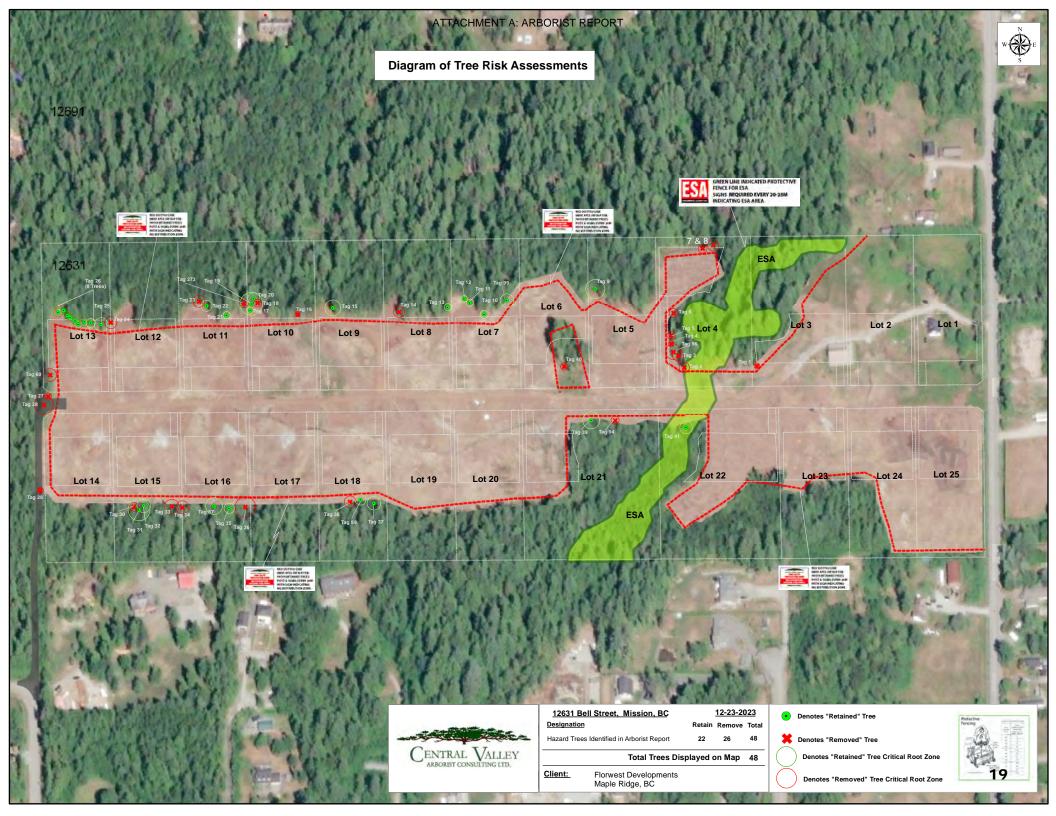
ATTACHMENT A: ARBORIST REPORT 12631 Bell Street, Mission BC Total Trees cut on property

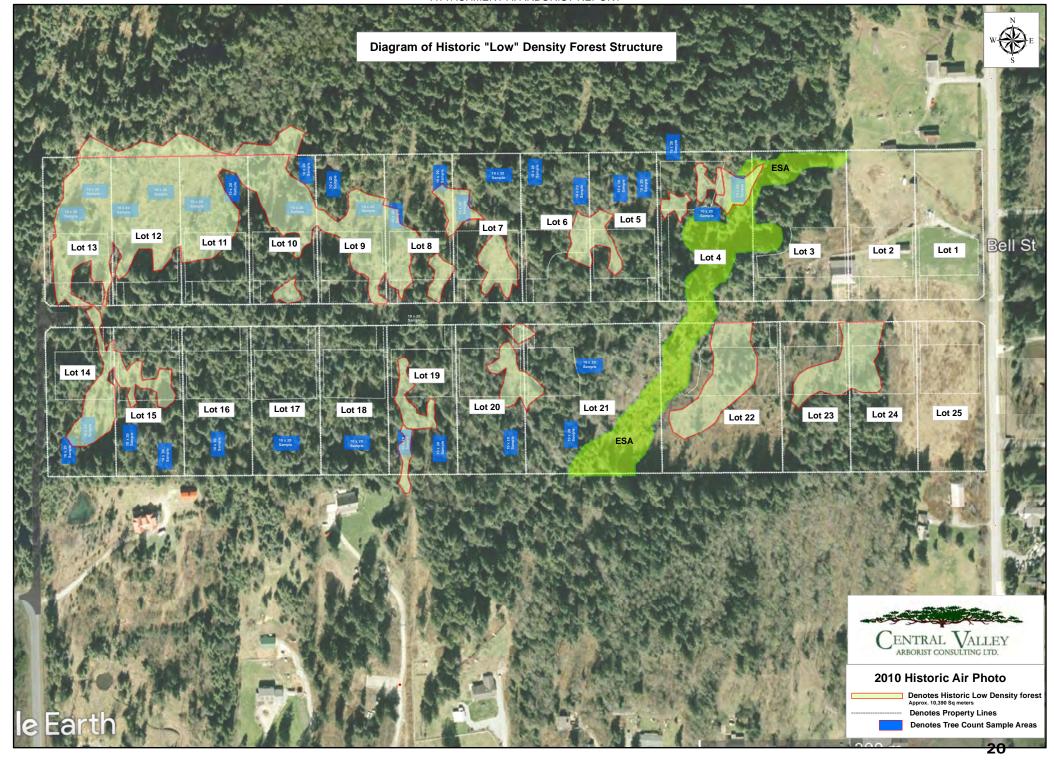
Chart D	Summary of Total Trees Cut							
Lot Numbers	Total Cleared Area m ²	Total Trees Removed		Lot Numbers	Total Cleared Area m ²	Total Trees Removed		
1	0	0		14	4122	107		
2	0	0		15	4240	110		
3	560	18		16	4280	138		
4	2900	75		17	4300	138		
5	3960	111		18	4230	110		
6	3800	106		19	4750	132		
7	3680	93		20	4580	125		
8	3470	77		21	3030	98		
9	3590	89		22	3670	75		
10	3570	102		23	1750	40		
11	3510	91		24	1680	40		
12	3460	83		25	0	0		
13	2980	52		·	·	·		

Total Trees Cut	2010
Road	292











Client:

Florwest Developments Box 21009 Maple Ridge, BC V2X 1P7

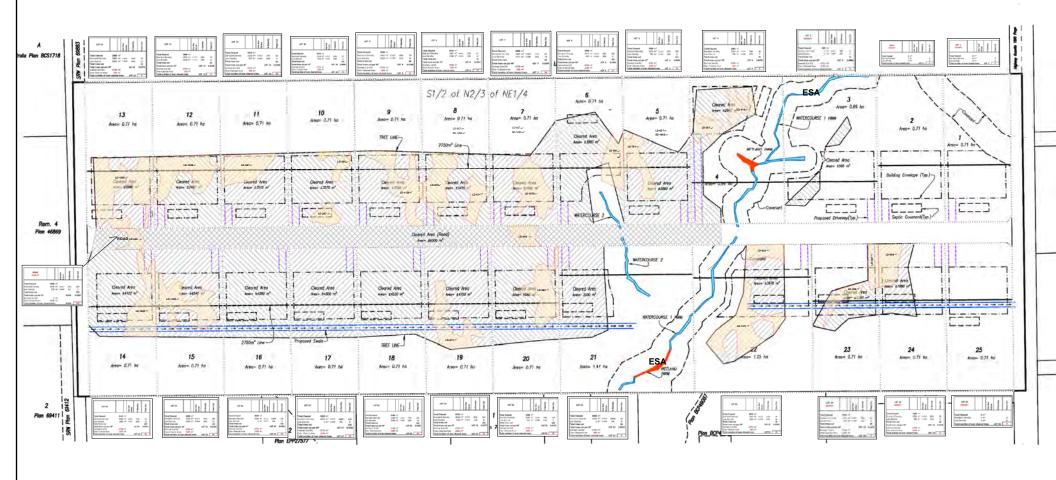
Site Location:

12631 Bell Street Mission, BC

Feb. 06, 2023

Basemap / Low & High Density Forest Structure







Low Density / Standard Density

Denotes Low Density forest (25)



Client:

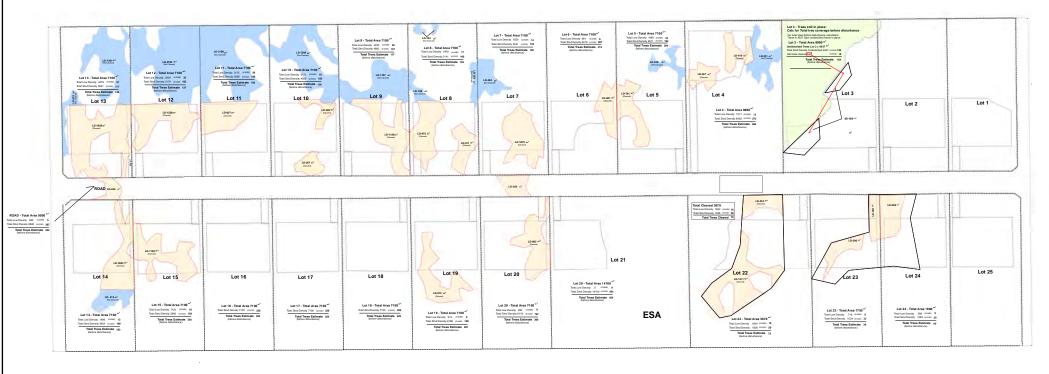
Florwest Developments Box 21009 Maple Ridge, BC V2X 1P7 Site Location:

12631 Bell Street Mission, BC

Feb. 13, 2023

Diagram of Total Trees before Disturbance (Estimated)





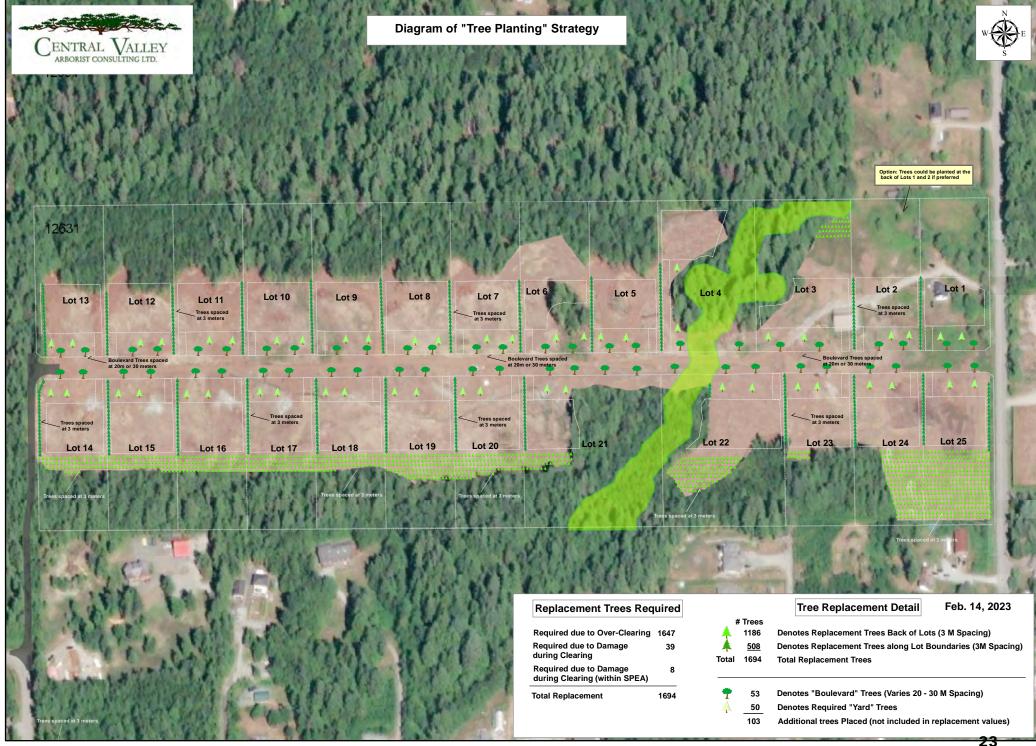
Summary	of	Density	Calculation	(b	y Lot)

Lot	Total Lot m ²	Total M ² Low Density 0.0089	Total Trees Low Density	Total M ² Standard Density 0,0322	Standard Density	Total Trees before Disturbance	Note
1	7100		Open		Open	0	-
2	7100		Open		Open	0	
3	9900	Special / Partia	-	5057	164	164	Front Street
4	9900	1417	13	BASS	273	286	
5	7100	1089	10	B011	194	204	
6	7100	681	6	6419	207	213	
7	7100	1559	14	5541	178	192	
В	7100	1959	17	5141	166	183	
9	7100	7235	20	4865	157	177	
10	7100	2171	19	4520	159	178	
11	7100	3115	28	3985	128	156	
12	7100	3930	39.	3170	102	137	
13	7100	3479	31	3521	117	148	
14	7100	1496	13	5604	180	193	
15	7100	1120	10	5980	193	203	
16	7100	0		7100	229	229	
17	7100	.0		7100	229	229	
18	7100	0		7100	229	229	
19	7100	912	8	5188	199	207	
20	7100	982	9	5338	197	206	
21	14100	.0		14100	454	454	
22	12500	1644	16	1826	59	75	
23	7100	716	6	1034	33	39	
24	7100	596	5	1084	35	40	
25	7106		Open		Duen	0	
		Estimated total	Trees before	disturbance	1	4,142	1
DAD	7100	595	5	8905	287	292	* Not incoded in replacement

Denotes Low Density forest (LD) Polygon / Within Cleared Areas

Denotes Low Density forest (LD) Polygon / Outside of Cleared Areas

22





Tree Evaluation Summary

12631 Bell Street Mission, BC



ID #	Species	DBH (cm)	canopy spread radius (m)	~HT (m)	LCR (%)	Condition, TRAQ rating	Comments	Recommendations
1	western hemlock, Tsuga heterophylla	29	3.6	26	40	health poor, structure good; MODERATE risk rating	Lot 3; branch tip dieback, yellowing – tree dying; CRZ impacted by machinery	REMOVE
2	western hemlock, Tsuga heterophylla	54	4.6	45	30	health very poor, structure good; HIGH risk rating	Lot 4; branch tip dieback; CRZ impacted by machinery (3.4m from trunk)	REMOVE
3	western hemlock, Tsuga heterophylla	59	4.3	50	30	health very poor, structure good; HIGH risk rating	Lot 4; decay in trunk, bark falling off; CRZ impacted by machinery (3.4m from trunk)	REMOVE
4	western hemlock, Tsuga heterophylla	29	2.9	30	40	health very poor, structure good; HIGH risk rating	Lot 4; sparse canopy, dying	REMOVE
5	western hemlock, Tsuga heterophylla	43	2.3	30	40	health very poor, structure fair; HIGH risk	Lot 4; sparse canopy, bark falling off, dying	REMOVE
6	western hemlock, Tsuga heterophylla	46	2.8	30	80	health poor, structure good; HIGH risk rating	Lot 4; physical damage, east side of trunk; CRZ impacted by machinery (<1.0m from trunk)	REMOVE
7	western hemlock, Tsuga heterophylla	59	0	38	0	DEAD; HIGH risk rating	north of Lot 4 (in forest); dead from natural causes, targets new build	REMOVE
8	western hemlock, Tsuga heterophylla	46	0	40	0	DEAD; HIGH risk rating	north of Lot 4 (in forest); dead from natural causes, targets new build	REMOVE
9	(4) western hemlock, Tsuga heterophylla; (1) western red cedar.	20-80	2.0-5.0	35	70	health poor-fair, structure good; LOW risk rating	Lot 5; large hemlock with branch tip dieback; 3 small hemlocks with vellowing foliage; 1 cedar, no	retain & monitor





ID #	Species	DBH (cm)	canopy spread radius (m)	~HT (m)	LCR (%)	Condition, TRAQ rating	Comments	Recommendations
10	western hemlock, Tsuga heterophylla	43	3.0	40	70	health fair, structure good; LOW risk rating	Lot 7; CRZ impacted by machinery (2.8m from trunk)	retain & monitor
11	western hemlock, Tsuga heterophylla	38	3.6	38	80	health fair, structure good; LOW risk rating	Lot 7; CRZ impacted by machinery (1.0m from trunk)	retain & monitor
12	(4) western hemlock, Tsuga heterophylla	34	3.3	20	90	health good, structure good; LOW risk rating	Lot 7; CRZ impacted by machinery (2.0m from trunk)	retain & monitor
13	group of paper birch, Betula papyrifera and bitter cherry.	20-30	4.0	15-20	70	health good, structure good; LOW risk rating	Lot 8; CRZ impacted by machinery (1.0m-2.0m from trunk)	retain & monitor
14	(1) western red cedar, Thuja plicata	59	4.5	20	75	health very poor, structure good; LOW risk rating	Lot 8; foliage browning, excess cone crop; CRZ impacted by machinery (2.8m from trunk)	REMOVE
15	(3) western hemlock, Tsuga heterophylla	50-60	5.0	30-35	80	health good, structure good; LOW risk rating	Lot 9; CRZ impacted by machinery (<1.0m from trunk)	retain & monitor
16	western hemlock, Tsuga heterophylla	25	3.4	15	50	health poor, structure good; LOW risk rating	Lot 10; foliage yellowing, tree dying - half of the CRZ buried in ~2.0m of fill	REMOVE
17	western hemlock, Tsuga heterophylla	34	4.1	30	60	health good, structure good; LOW risk rating	Lot 10; CRZ impacted by machinery (1.0m from trunk)	retain & monitor
18	western red cedar, Thuja plicata	41	4.6	25	80	DEAD; LOW risk rating	Lot 10; CRZ impacted by machinery (1.0m from trunk)	REMOVE



ID #	Species	DBH (cm)	canopy spread radius (m)	~HT (m)	LCR (%)	Condition, TRAQ rating	Comments	Recommendations
19	western red cedar, Thuja plicata	119	5.6	45	70	health very poor, structure good; LOW risk rating	Lot 10; 3 tops, foliage yellowing, excess cone crop; CRZ impacted by machinery (4.5m from trunk)	retain & monitor
20	western hemlock, Tsuga heterophylla	64	4.0	50	85	health good, structure good; LOW risk rating	Lot 10; no significant issues; CRZ impacted by machinery (1.5m from trunk)	retain & monitor
21	western hemlock, Tsuga heterophylla	37	3.9	20	30	health fair, structure fair; LOW risk rating	Lot 11; crown suppressed; CRZ impacted by machinery (1.0m from trunk)	retain & monitor
22	western hemlock, Tsuga heterophylla	57	4.1	55	40	health very poor, structure good; HIGH risk rating	Lot 11; no significant issues; CRZ impacted by machinery (1.0m from trunk)	retain & monitor
23	western hemlock, Tsuga heterophylla	63	3.5	35	25	health very poor, structure very poor; HIGH risk rating	Lot 11; one co-dom top broke off, branch tip dieback and stunted growth – tree dying	REMOVE
24	western hemlock, Tsuga heterophylla	64	3.8	55	50	health very poor, structure good; HIGH risk rating	Lot 13; branch tip dieback, stunted growth, excess cone crop; CRZ impacted by machinery	REMOVE
25	western red cedar, Thuja plicata	71	4.5	40	70	health good, structure good; LOW risk rating	Lot 13; no significant issues; CRZ impacted by machinery (4.2m from trunk)	retain & monitor
26	(7) western hemlock, Tsuga heterophylla , (1) western red cedar, Thuia nlicata	30-50	2.0-4.5	20-35	40- 80	health fair-good, structure good; LOW risk rating	Lot 13; CRZ of 8 trees impacted by machinery (<1.0m – 2.0m from trunk)	retain & monitor



ATTACHMENT A: ARBORIST REPORT

CENTRAL VALLEY

ID #	Species	DBH (cm)	canopy spread radius (m)	~HT (m)	LCR (%)	Condition, TRAQ rating	Comments	Recommendations
27	western hemlock, Tsuga heterophylla	37	3.5	30	25	health very poor, structure very poor; HIGH risk rating	west of Lot 13; tree has fallen – leans into another tree	REMOVE
28	western hemlock, Tsuga heterophylla	15,27 28,29	3.4	33	50	health very poor, structure very poor; HIGH risk rating	west of Lot 13; 4 trunks, sparse canopy, yellow foliage, stunted growth – tree dying; CRZ impacted by	REMOVE
29	western hemlock, Tsuga heterophylla	33	2.2	50	15	health fair, structure very poor; HIGH risk rating	west of Lot 14; low LCR, low trunk taper, stand-alone tree, prone to wind throw	REMOVE
30	western hemlock, Tsuga heterophylla	47	0	25	0	DEAD; HIGH risk rating	Lot 15; dead, targets new build	REMOVE
31	western red cedar, Thuja plicata	114	4.2	4.4	656	health fair, structure good; LOW risk rating	Lot 15; sparse canopy; excavator work just outside of CRZ	retain & monitor
32	western hemlock, Tsuga heterophylla	71	3.1	50	85	health fair, structure good; LOW risk rating	Lot 15; stress symptoms; excavator work just outside of CRZ	retain & monitor
33	western hemlock, Tsuga heterophylla	76	3.9	55	0	DEAD; HIGH risk rating	Lot 15; died of natural causes; may target new build	REMOVE
34	western hemlock, Tsuga heterophylla	68	3.9	50	0	health very poor, structure fair; HIGH risk	Lot 16; tree dying; excavator work within CRZ	REMOVE



ID #	Species	DBH (cm)	canopy spread radius (m)	~HT (m)	LCR (%)	Condition, TRAQ rating	Comments	Recommendations
35	western hemlock, Tsuga heterophylla	54	2.7	55	40	health fair, structure good; MODERATE risk rating	Lot 16; sparse canopy; CRZ impacted by machinery (2.0m from trunk)	retain & monitor
36	western hemlock, Tsuga heterophylla	44-63	5.7	45	60	health very poor, structure poor; HIGH risk rating		REMOVE
37	western hemlock, Tsuga heterophylla	71	2.4	50	50	health fair, structure good; MODERATE risk rating	Lot 18; tree in decline; excavator work within CRZ	retain & monitor
38	western hemlock, Tsuga heterophylla	56	2.1	45	40		Lot 18; tree in decline; excavator work within CRZ	retain & monitor
39	western red cedar, Thuja plicata	89	5.3	45	40	health poor, structure fair; MODERATE risk rating	Lot 21; sparse canopy; excavator work just outside of CRZ	retain & monitor
40	western hemlock, Tsuga heterophylla	37	2.8	30	15	health very poor, structure good; HIGH risk rating	Lot 6; dying; CRZ impacted by machinery (2.0m from trunk)	REMOVE
41	big-leaf maple, Acer macrophyllum	66	5.1	25	70	health fair, structure fair; MODERATE risk rating	Lot 22; no symptoms apparent at this time; CRZ impacted by machinery (1.7m from trunk) *in SPFA	retain & monitor
60	western hemlock, Tsuga heterophylla	67	5.9	50	60	health very poor, structure good; HIGH risk rating		REMOVE
87 Ep	western hemlock, Tsuga heterophylla	87	4.9	50	65	health fair, structure good; MODERATE risk rating	Lot 16; branch tip dieback; CRZ impacted by machinery (3.1m from trunk)	retain & monitor



ID #	Species	DBH (cm)	canopy spread radius (m)	~HT (m)	LCR (%)	Condition, TRAQ rating	Comments	Recommendations
89	western hemlock, Tsuga heterophylla	62	3.5	45	0	DEAD; HIGH risk rating	Lot 18; dead, may target new build	REMOVE
94	western hemlock, Tsuga heterophylla	43	4.3	45	35	health very poor, structure poor; HIGH risk	north of Lot 21; co-dom tops; sparse canopy, branch tip dieback	REMOVE
96	western red cedar, Thuja plicata	81	5.2	35	35	health very poor, structure very poor; HIGH risk rating	Lot 4; ~30° lean to SE; CRZ impacted by machinery (2.4m from trunk)	REMOVE
99	western hemlock, Tsuga heterophylla	71	6.8	45		health fair, structure good; LOW risk rating	Lot 7; CRZ impacted by machinery (5.0m from trunk)	retain & monitor
273	western hemlock, Tsuga heterophylla	45	4.2	30		health very poor, structure poor; HIGH risk rating	Lot 10; sparse canopy, stunted growth – tree dying; CRZ impacted by machinery (1.0m from trunk)	REMOVE











Pictures 1-3: Lot 3/Lot 4 high risk trees; clearing outside of SPEA











Pictures 4-7: examples of low-density areas (few protected-size trees)











Pictures 8-11: examples of wind damage, north edge





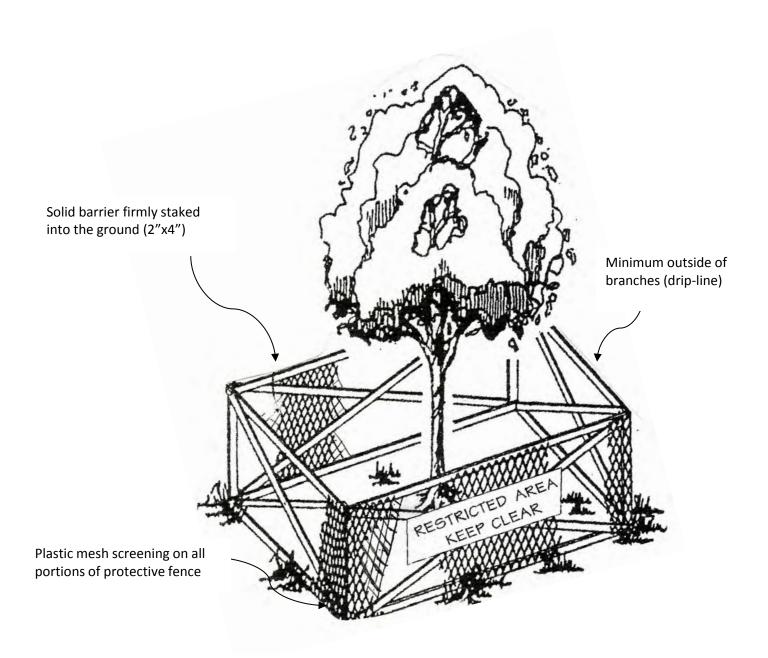




Pictures 12-14: trees in decline, south edge



PROTECTIVE FENCING INSTRUCTIONS



Note: No storage of building materials within or against protection barrier and no booms or equipment to enter dripline at anytime. Barrier is not to be moved once erected.



Qualifications of Author

Robert F. Kwak

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Cell: 604-850-4938 Email: kwak@centralvalley.ca

- President and owner of Central Valley Arborist Consulting Ltd; 2006 to present
- President and owner of Central Valley Tree and Arborist Services Ltd; 2003 to 2015
- Tamarack Tree Service, Manager for BC (Hydro contractor); 2002 to 2003
- Manager of Westland Tree Services 2000 to 2002
- President and owner of B.K. Tree Services Ltd; 1981 to 1999
- International Society of Arboriculture; Certified Arborist PN-1736A
- PNW-ISA Certified Tree Risk Assessor; Certification (TRAQ)
- WCB Wildlife Danger Tree Assessor: Parks and Recreation Module; Certification #P0072
- Consulting Arborist; June 2000 Present
- Member: International Society of Arboriculture (ISA)
 Pacific Northwest Chapter of Arborist
- Over 40 of years professional work in the tree industry and land clearing business.
- Insurance policy #040149195 (\$5,000,000 Liability) Saxbee Insurance Agencies Ltd.
- Business License: Abbotsford Intra Municipal #2021-120721
 City of White Rock #00024576
- Work Safe BC 961482-AA



Qualifications of Author

Wyatt Sjodin

- Over 30 years of experience in the field of arboriculture
- Professional Member, International Society of Arboriculture (ISA)
- Arborist; ISA Certified #PN-0430 (1993)
- Certified Tree Risk Assessor #0341 (2005)
- Wildlife/Dangerous Tree Assessor, Parks & Recreation #P3059 (2022)
- Certified Pesticide Applicator #191294 and #190700 (1993)
- Certified Utility Arborist #0025-TT-95 (1995)
- Certified Arborist Technician ITA# 00007-TA-12 (2012)
- Davey Institute of Tree Sciences graduate, (2000)



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- 5. Central Valley shall not be required to give testimony or to attend court by reason of this report unless subsequent contractual arrangements are made, including payment of an additional fee for such services as described in the fee schedule and contract of engagement.
- 6. In preparing this report, Central Valley has relied in good faith on information provided by certain persons, Governmental Bodies, government registries and agents and representatives of each of the foregoing, and Central Valley assumes that such information is true, correct and accurate in all material respects. Central Valley accepts no responsibility for any deficiency, misstatement or inaccuracy contained in this report as a result of omissions, misinterpretations or fraudulent acts of or information provided by such persons, bodies, registries, agents and representatives.
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