

Tree Care Unlimited,.LLC 5600 Rosewood St. Lake Oswego, OR 97035

March 23, 2012

Joel Komarek, P.E. Director, Lake Oswego—Tigard Water Supply Partnership P.O. Box 369 Lake Oswego, OR 97034

Dear Mr. Komarek,

Attached please find the Tree Assessment for the Water Treatment Properties at 4260 Kenthorpe Way, 4245, 4305 & 4315 SW Mapleton Dr., West Linn, Oregon. I performed the field work between August 24 and August 30. The work included assessing 410 trees of which 189 are regulated and subject to City of West Linn Tree Ordinance and Community Development Code. The report includes the assessment of all trees on site and recommendations that should be followed during preconstruction, demolition & construction, and post construction phases of the project.

Sincerely,

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Kay Kinyon International Society of Aboriculture Certified Arborist PN 0409A



Lake Oswego & Tigard Water Treatment Plant 4260 Kenthorpe Way, 4245, 4605 & 4315 Mapleton Drive West Linn, Oregon

TREE PROTECTION PLAN

Prepared For

Lake Oswego-Tigard Water Supply Partnership P.O. Box 369 Lake Oswego, Oregon 97034

Residential and Commercial Removal•Pruning•Arboricultural Services•Consultation MEMBER: Tree Care Industry Association•International Society of Arboriculture•Oregon Construction Contractors Assoc.State Licensed Tree Service #195179•Insured P.O. Box 1566•Lake Oswego, OR 97035•503-635-3165•Fax 503-635-1549 Visit our website at www.tclu.com•E-mail: info@tclu.com



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Subject:

Address of the Report:

Date of the Report:

Report Submitted To:

ARBORIST REPORT

Tree Assessment

4260 Kenthorpe Way, 4245, 4305 & 4315 Mapleton Dr. West Linn, Oregon

March 23, 2012

Joel Komarek Director, Lake Oswego-Tigard Water Supply Partnership City of Lake Oswego P.O. Box 369 Lake Oswego, OR 97034 Phone: 503-697-6588 FAX: 503-534-5225 E-mail: jkomarek@ci.oswego.or.us

SUMMARY

I have completed an on site assessment of all trees 6 inches in diameter or greater on the properties at 4260 Kenthorpe Way, 4245, 4305 & 4315 Mapleton Drive. This assessment includes 410 trees of which 189 are regulated by The City of West Linn Ordinance 1542 and Development Code Chapter 55. The City of West Linn considers 41 of the 189 regulated trees to be Significant Trees. The majority of the regulated trees, approximately 79% are native or naturalized species. The remaining 21% are more exotic species that appear to have been introduced. There appear to be no Heritage trees on site.

A grove of mostly Oregon Ash trees exists along the northern end of 4245 & 4305 Mapleton Dr. Most trees in the grove contain serious defects. At 4260 Kenthorpe Way, development has displaced most native trees in a grove situation on the rest of the site.

ASSIGNMENT

Tree Care & Landscapes Unlimited, Inc. was asked to perform an assessment of all trees 5 inches or greater in diameter on site including estimated height and canopy spread. The assessment also includes form, crown class, age class, and tree health. The work is to include determining if any of the assessed trees qualify for designation as a City of West Linn Heritage Tree or significant tree clusters.

OBSERVATIONS

The assessment reviewed 410 trees. Of those, 189 are regulated.

Trees covered by City of West Linn regulation include 20 different species. Regulated trees are Oregon White Oak, Pacific Madrone and Pacific Dogwood with a 6 inch diameter DBH and all other trees with a DBH of 12 inches or greater. A break out of the species is shown below in "Table 1–4260 Kenthorpe Way, 4245, 4305 & 4315 Mapleton Dr. Tree Species".

COMMON NAME	COUNT	PERCENT
American Elm	1	0.53%
American Sweetgum	2	1.06%
Bigleaf Maple	19	10.05%
Black Cottonwood	9	4.76%
Blue Atlas Cedar	1	0.53%
Crabapple	1	0.53%
Deodar Cedar	5	2.65%
Douglas Fir	3	1.59%
European White Birch	5	2.65%
Giant Sequoia	5	2.65%
Grand Fir	4	2.12%
Hawthorn	3	1.59%
Hinoki Falsecypress	1	0.53%
London Planetree	1	0.53%
Norway Maple	1	0.53%
Oregon Ash	55	29.10%
Oregon White Oak	12	6.35%
Pacific Yew	1	0.53%
Pine	11	5.82%
Red Alder	8	4.23%
Red Oak	1	0.53%
Spruce	9	4.76%
Western Red Cedar	29	15.34%
Willow	2	1.06%
	189	100.00%

Table 1—4260 Kenthorpe Way, 4245, 4305 & 4315 Maple Dr. Regulated Trees by Species

The complete Tree Assessment is found in the attached "Appendix 1—4260 Kenthorpe Way, 4245, 4305 & 4315 Mapleton Dr. Tree Assessment". "Appendix 2—4260 Kenthorpe Way, 4245, 4305 & 4315 Maple Dr. Tree Map" shows the location of all inventoried trees.

All diameters as listed in **Appendix--1** under the column, "DBH", are in inches. All diameters are measured at 54 inches above mean ground level at the base of the plant or at the narrowest trunk area below stem break in the case of multiple stem trees. Exceptions are noted in the "Comments" column. Height and spread of trees is estimated. Trunk area method was used to determine multiple stem tree diameters.

The column headed "Crown Class" refers to the stature of trees described as being Dominant, Co-dominant, or Below Canopy. The terms are relative to the subject tree grove. Dominant trees are the larger trees that have established relatively free from competition. Co-dominant trees form the majority of the grove and have grown up together as a group. Below Canopy trees have growth that has been restricted by nearby trees. The restriction may be moderate to severe.

"Age Class" refers to the maturity of a tree. The terms Over-mature, Mature, Semi-mature and Young are used to describe this attribute. Over-mature trees are older and display significant decline such as large cavities. Mature trees are older trees that are usually near their full size and may have defects that are not significant. Semi-mature trees are maturing trees usually in good health and in the transition from young to mature. Young trees are usually much smaller than semi-mature trees and are still exhibiting juvenile vigor. The column headed "Tree Health" describes the condition of trees surveyed which are indicated as being Very Good, Good, Fair, Poor, Very Poor or Dead. Trees rated as Very Good are prime specimens with no visible defects. Trees rated as good may have minor defects but are stable trees in good health. Trees rated as Fair usually contain at least one visible defect that may become more significant some time in the future. Poor trees contain at least one significant visible defect. The defect may be structural or cosmetic. They are usually displaying reduced vigor and may be candidates for removal. Trees rated as Very Poor contain significant defect are hazardous or near hazardous. Dead trees are dead and should be removed before decay advances to the point that they become hazardous.

DISCUSSION

The majority of trees on site are native or naturalized trees. The most significant concentration of mature native trees is located along the northeast side of 4305 Mapleton Dr. and runs along its north end and continues across the north end of 4245 Mapleton Dr. Most of the trees in the grove are over-mature Oregon Ash. A large number of these trees are in very poor condition. All trees in very poor condition are found in this grove. Most of them contain large cavities in their lower bole and root crown areas. The size and number of cavities indicates the need to further evaluate these trees for hazard risk. Details regarding these trees are shown in Table 2 below. This table is restricted to regulated trees as defined by City of West Linn Tree Ordinance (Oregon White Oak 6" DBH or greater, Pacific Madrone 6" DBH or greater and all others 12" DBH or greater).

13429	Western Red Cedar	24	Very Poor	24" x 20' cavity from ground on S. side.						
13886	Willow	19	Very Poor	4 stems 12,6,11,8. Severe cavities & decay all stems.						
14199	Oregon Ash	17	Very Poor	Stem failure at 30' above ground.						
14327	Oregon Ash	15	Very Poor	Broken top. 4" limb cavity at 6.5' above ground on E side.						
14367	Oregon Ash	30	Very Poor	2 stems 24,18. 4" diameter cavity at 3' above ground on S side. 2" x 12" cavity at 30' above ground on S side. Bark inclusions with excessive end weight. History of large limb failure.						
14392	Oregon Ash	28	Very Poor	Cavities in trunk from ground up.						
14395	Oregon Ash	21	Very Poor	10" x 3.5' cavity from 4' to 7.5' above ground on N side.						
14399	Oregon Ash	27	Very Poor	16" x60" cavity from ground on S side goes all the way through trunk.						
14401	Oregon Ash	15	Very Poor	3 stems 12,7,6. Thin crown. Stressed.						
14403	Oregon Ash	25	Very Poor	2 stems 22,17. Broken tops on both stems. History of large limb failure.						
14404	Oregon Ash	15	Very Poor	18" x 12' cavity from ground on S side.						
14404.1	Oregon Ash	18	Very Poor	24" x 5' cavity from ground on N side.						

Table 2—VERY POOR REGULATED TREES TO BE FURTHER EVALUATEDNO.COMMON NAMEDBHTREECOMMENTS

HEALTH

NO.	COMMON NAME	DBH	TREE HEALTH	COMMENTS
14404.2	Oregon Ash	14	Very Poor	10" x 24" cavity from ground on E side.
14405	Oregon Ash	16	Poor	4 stems 8,7,11,4. 18 x 24" cavity from ground on E side.
14484	Oregon Ash	33	Very Poor	12" limb cavity at 4' above ground on N side.
14486	Oregon Ash	25	Very Poor	2 stems 22,12. 8"x24" cavity from ground on E side. Broken top. History of limb failure. Thin crown.
14488	Oregon Ash	14	Very Poor	12" x 8' cavity from ground on N side.
14489	Oregon Ash	18	Very Poor	Stem failure at 15' above ground.
14490	Oregon Ash	25	Very Poor	Stem failures at 25' above ground.
14491	Oregon Ash	29	Very Poor	4" x 24" cavity from ground on N side. 6" x 4' cavity at 40' above ground on S side.
14492	Oregon Ash	19	Very Poor	24" x 8' cavity from ground on E. side.
14493	Oregon Ash	28	Very Poor	3" x 16" cavity from ground on N side.
14493.1	Oregon Ash	16	Very Poor	3" x 4.5' cavity from ground on S side. High crown.
14494	Oregon Ash	19	Very Poor	2"x4" cavity at 2' above ground on N side.
14495	Oregon Ash	20	Very Poor	2" x 12" cavity from 1.5' above ground on E. side.
14496	Oregon Ash	29	Very Poor	2 stems 23,17. 17" stem is hollow from ground'.
14498	Oregon Ash	18	Very Poor	Cavities.
15481	Black Cottonwood	12	Very Poor	Broken top at 30' above ground.
15490	Western Red Cedar	24	Very Poor	Broken top at 30' above ground.
15491	Western Red Cedar	22	Very Poor	Broken top at 20' above ground.
15492	Western Red Cedar	12	Very Poor	Brokne top at 20" above ground.
15581	Western Red Cedar	20	Very Poor	Broken trunk is hollow.
15594	Bigleaf Maple	16	Very Poor	Broken top at 30' above ground.
15607	Bigleaf Maple	33	Very Poor	Failed stem with cavity at 15' above ground.
15610	Bigleaf Maple	29	Very Poor	Dead leader on S. side.
15625	Red Alder	14	Very Poor	Broken top.
15626	Red Alder	18	Very Poor	Broken top.
15629.1	Bigleaf Maple	21	Very Poor	Broken top.
105019	Oregon Ash	32	Very Poor	Decay in lower bole.
105024	Oregon Ash	12	Very Poor	18" x 12' cavity from ground on W side.
105027	Oregon Ash	20	Very Poor	2 stems 12,16. 15"x24" cavity from ground W.

Eleven regulated Oregon White Oaks exist on the site but are not organized into a native oak grove. Instead, they are scattered across the entire site. Five of the Oaks(#14180, #14191, #14252, #14349 & #14480) are growing inside the property lines of the three tax lots that front on Mapleton Dr. A sixth Oregon White Oak(#14438) is growing in the Mapleton Dr. right of way. Six Oregon White Oaks exist on the 4260 Kenthorpe property. They include Trees #13728.3, #13886.1, #13992.4, #14245, #14403.1 & #15476.

The remaining trees appear to have been planted by past residents. They include fruit trees and introduced ornamental landscape varieties. There are also a number of native west coast species not necessarily native to the Willamette Valley that have been planted as landscape trees. Many trees at 4315 Mapleton Dr. are examples of these plantings. Most trees at 4260 Kenthorpe Way are less than 12" DBH and appear to have been planted as a result of past development. These trees are predominantly Western Red Cedar, Douglas Fir and other ornamental landscape varieties. The inventory of all trees on site was reviewed to determine if there are any candidates that could be considered as possible Heritage Trees. Three possibilities meeting minimum diameter requirements emerged. However, none of them met the score requirement of 180 points. The trees and their scores are shown below in "Table 3 Heritage Tree Candidates".

No.	Species	Diameter	DBH Rating	Condition	Location	Historical Factor	Heritage Score
4 4 4 7 0	Giant	50	r.	F	0	4	450
14478	Sequoia	59	5	5	6	1	150
	Giant						
14479	Sequoia	49	5	5	6	1	150
14482	Oregon Ash	39	5	2	6	1	60

Table 3—Heritage Tree Candidates

RECOMMENDATIONS FOR HEALTH & LONG TERM WELFARE OF TREES

I. <u>Before Construction:</u>

- a. Identify and number the trees to be protected, verify by mapping and/or tagging and note their size in D.B.H. (Diameter at Breast Height), variety, health and structural conditions, review plans.
- b. Check with local government agencies for tree protection ordinances.
- c. Remove any low limbs that may be in the way of construction equipment, and prune as needed to adhere NAA standards.
- d. Leave a protective covering on the soil, i.e., existing groundcover or mulch.
- e. Notify all other contractors that these trees are to be saved and protected.
- f. Install a temporary 6' high no-climb fence to protect the trees and their root systems. Install tree protection sign on fence. Posts located 10' on center as a general rule. For every inch in diameter of the trunk (D.B.H.) allow one half foot of radius from the trunk as the protected area. (Example: 24" D.B.H. = 12' radius of protected root system.) Ideally, we need to protect more than the drip zone. The drip zone into the trunk is the support roots that hold the tree up. The roots from that drip zone out provide nutrition, water and oxygen. Try to avoid loss of more than 30% of root on any one side. This allows some encroachment within the drip line. This should be determined on a case by case site conditions reviewed.
- g. Identify any insect or disease problems that may require treatment.
- h. Engineer and design proposed structures and construction to avoid root loss. Bridge type foundations can save major roots.
- i. Consider tree removals adjacent to trees to be saved for wind related stability concerns.
- j. Check for past and proposed grade and drainage changes, consider the effects.
- k. Check trees for stability.
- I. Remove all trees that would not survive the effects of change. Remove all hazardous trees.
- m. Minimize environmental changes.

The following are written recommendations for the health and long-term welfare of trees, that will be followed during preconstruction, demolition, construction phases of the project phases of the project. The following specifications also include recommendations for methods of avoiding injury, damage treatment and inspection schedule. These recommendations shall apply to the overall project schedule.

TREE PROTECTION ZONE (TPZ)

Each tree to be retained shall have a designated tree protection zone (TPZ) identifying the area sufficiently large enough to protect the tree and roots from disturbance. The standard for computing the size of the TPZ shall be drip line radius plus 10 feet. The drip line of any tree is considered to be the outer edge of the tree's canopy. Tree Inventory spreadsheets list a tree's canopy diameter under the column "Spread" in feet. For example, a tree listed to have a "Spread" of 30 has drip line radius of 15 feet plus 10 feet to combined for a TPZ radius of 25 feet.. The tree protection zone shall be shown on all site plans for the project. Improvements or activities such as paving, utility and irrigation trenching and other ancillary activities shall occur outside the tree protection zone, unless authorized by the City Arborist, or by project approval. Unless otherwise specified, the protective fencing shall serve as the tree protection zone. Activities prohibited within the tree protection zone include:

- Storage or parking vehicles, building materials, refuse, excavated spoils or dumping of poisonous materials on or around trees and roots. Poisonous materials include, but are not limited to, paint, petroleum products, concrete or stucco mix, dirty water or any other material which may be deleterious to tree health.
- The use of tree trunks as a winch support, anchorage, as a temporary power pole, sign posts or other similar function.
- Cutting of tree roots by utility *trenching,* foundation digging, placement of curbs and trenches and other miscellaneous excavation without prior approval of the City Arborist.
- Soil disturbance or grade change.
- Drainage changes.

Activities permitted or required within the tree protection zone include:

- Mulching. During construction, wood chips may be spread within the TPZ to a 4-to 6-inch depth, leaving the trunk clear of mulch to help inadvertent *compaction* and moisture loss from occurring. The mulch may be removed if improvements or other landscaping is required. Mulch material shall be 2-inch unpainted, untreated wood chip mulch or approved equal.
- Root Buffer. When areas under the tree canopy cannot be fenced, a temporary buffer is required and shall cover the root zone and remain in place at the specified thickness until final grading stage.
- Irrigation, aeration, fertilizing or other beneficial practices that have been specifically approved for use within the tree protection zone.
- Erosion Control. If a tree is adjacent to or in the immediate proximity to a grade slope of 8% or more, then approved erosion control or silt barriers shall be installed outside the TPZ to prevent siltation and/or erosion within the tree protection zone.

TREE PROTECTION FENCING

Fenced enclosures shall be erected around trees to be protected to achieve three primary goals, (1) to keep the foliage crowns and branching structure clear from contact by equipment, materials and activities; (2) to preserve roots and soil conditions in an intact and non-compacted state and;

(3) to identify the tree protection zone in which no soil disturbance is permitted and activities are restricted, unless otherwise approved.

- **Size and type of fence:** All trees to be preserved shall be protected with six foot high chain link fences six foot high "no climb" wire fencing. Fences are to be mounted on two inch diameter galvanized iron posts or 8' studded tee steel fence posts, driven into the ground to a depth of at least 2-feet at no more than 10-foot spacing. This detail shall appear in the construction plan set, and can be referenced in the City's Construction Standards.
- Area to be fenced: The fences shall enclose the entire area within the tree protection zone of the tree(s) to be saved throughout the life of the project as mapped by the building permit approval, or as mapped within the tree protection and preservation plan contained in the Arborist Report for the project. The fencing shall remain until final improvement work within the area is required, typically near the end of the project. If the fencing must be located on paving or sidewalk that will not be demolished, the posts may be supported by an appropriate grade level concrete base. For trees situated within a narrow planting strip, only the planting strip shall be enclosed with the required chain link protective fencing in order to keep the sidewalk and street open for public use. Trees situated in a small tree well or sidewalk planter pit, shall be wrapped with 2-inches of orange plastic fencing as padding from the outside. During installation of the wood slats, caution shall be used to avoid damaging any bark or branches. Major scaffold limbs may also require plastic fencing as directed by the project arborist or City Arborist.
- **Duration:** Tree fencing shall be erected before demolition, grubbing, grading or construction begins and remain in place until final inspection of the project permit, except for work specifically required in the approved plans in which case the project arborist or City Arborist (in the case of street trees) must be consulted.
- **Warning Sign:** A warning sign shall be prominently displayed on each fence. The sign shall be a minimum of 8.5 x 11-inches and clearly state:

WARNING:

Tree Protection Zone.

• **Violations:** The penalty for the unauthorized removal or relocation of a tree protection fence, and/or unauthorized activity within a TPZ, is \$500, plus \$500 per day until the fence is repaired or replaced and any damage to the tree properly mitigated.

TREE PROTECTION ALERNATIVE

In situations where construction impact intrudes into a TPZ but is compatible with the long term viability of the tree(s) as determined by the project arborist the project arborist may prescribe alternative tree protection to fencing. Such protection measures may include minimum 12 inch thick wood chip layer over a soil cloth base. Steel plates placed over the ground to protect TPZ from soil compaction may also be an example of a project arborist prescribed alternative protection measure.

CONSTRUCTION MEETING AND INSPECTION SCHEDULE

A certified arborist may be required to be retained by the applicant during the construction of large development projects. This project arborist retained shall conduct the following required inspections for the duration of construction activity. Correspondence may be as simple as e-mail in some cases or may require larger documents with tables, photographs, etc. for others.

- **Inspection of Protective Tree Fencing:** The City Arborist shall be in receipt of a written statement from the applicant or project arborist verifying that the protective tree fencing has been installed and may be inspected by the City Arborist prior to issuance of a demolition, grading, or building permit, unless otherwise approved.
- **Pre-Construction Meeting:** Prior to commencement of construction, the applicant or contractor shall conduct a pre-construction meeting to discuss tree protection with the job site superintendent, grading equipment operators, various inspectors, certified arborist, and City Arborist.
- **Monthly Inspections:** If a project arborist is required for the development project, he/she shall perform monthly inspections to monitor changing conditions and tree health. The City Arborist shall be in receipt of an inspection summary during the first week of each calendar month or, immediately if there are any changes to the approved plans or protection measures.
- **Special Activity Within the Tree Protection Zone:** Work in this area (TPZ) requires the direct onsite supervision of the project arborist or City Arborist.
- **Project Summary and Conclusion:** A brief summary discussing the project's trees shall be submitted to the City Arborist at the conclusion of all construction activity. It shall include concerns about trees that may have been negatively impacted as well as recommendations for care of the trees in the future.

TREE PRUNING, SURGERY AND REMOVAL

Prior to construction, various trees may require that branches be pruned clear from structures, activities, building encroachment or may need to be strengthened by means of mechanical support or surgery. The most compelling reason to prune is to develop a strong, safe framework and tree structure. Such pruning, surgery or the *removal* of trees shall adhere to the following standards:

- **Minimum Pruning:** If the project arborist recommends that trees be pruned, and the type of pruning is left unspecified, the standard pruning shall consist of *'crown cleaning'* as defined by ISA pruning guidelines. Trees shall be pruned to reduce hazards and develop a strong, safe framework.
- **Maximum Pruning:** Maximum pruning should only occur in special situations approved by the City Arborist. No more than one-third (33 percent) of the functioning leaf and stem area may be removed within one calendar year of any tree, or removal of foliage so as to cause the unbalancing of the tree. It must be recognized that trees are individual in form and structure, and that pruning needs may not always fit strict rules. The project arborist shall assume all responsibility for special pruning practices that vary from the standards outlined in this manual.
- **Tree Workers:** Pruning shall not be attempted by construction or contractor personnel, but shall be performed by a qualified tree care specialist or certified tree worker, according to specifications contained within the City of West Linn Tree Technical Manual.
- **Surgery:** Prior to construction, if it is necessary to promote health and prolong useful life or the structural characteristics, then trees shall be provided the appropriate treatments as specified by the project arborist or City Arborist.
- **Tree Removal:** Removal of trees that extend into the branches or roots of protected trees shall not be attempted by demolition or construction personnel, grading or other heavy equipment. A certified arborist or tree worker shall remove the tree carefully in a manner that causes no damage above or below ground to trees that remain.
- **Stump Removal:** Before performing stump extraction, the developer shall first consider whether or not roots may be entangled with trees that are to remain. If so, these stumps shall have their roots severed before extracting the stump. *Removal* shall include the grinding of stump and roots to a minimum depth of 24-inches but expose soil beneath

stump to provide drainage. In sidewalk or small planter areas to be replanted with a new tree, the entire stump shall be removed and the planting pit dug to a depth of 30-inches. If dug below 30-inches, compact the backfill to prevent settling. Large surface roots three feet from the outside circumference shall be removed, including the spoils and backfilled with City approved topsoil to grade, and the area tamped to settle the soil.

II. During Construction:

- a. Keep equipment off of the root system to avoid compaction.
- b. Keep equipment away from structure to prevent damage to trunk and limbs.
- c. Don't allow chemicals to be dumped on the ground near the tree, i.e., gasoline, diesel, paint, herbicide, cleaner, thinners, etc.
- d. Provide means of temporary irrigation if the project runs through the summer.
- e. If roots or limbs are cut or damaged, have them inspected by an ISA Certified Arborist and repaired or treated according to his/her recommendations.
- f. Protect the trees from excessive heat, i.e., equipment, paving and/or burning.
- g. Avoid trenching through the root systems, boring under them or hand digging can save roots.
- h. Contact the ISA Certified Arborist familiar with the site prior to and during any activity within the drip zone or tree protection fencing for consultation.

CONSTRUCTION ACTIVITY

Construction is normally prohibited in the TPZ. Under certain circumstances it may be necessary to work in the TPZ, however only with approval from the City Arborist. If any construction activity is to occur in the TPZ the following guidelines apply:

Excavation and Grading

The following guidelines shall be followed in regard to excavation and grading activities:

- 1. Contractor shall notify the Project Arborist and City Arborist a minimum of 24 hours in advance of the activity in the tree protection zone.
- 2. The Contractor shall manually probe for roots under the supervision of an International Society of Arboriculture Certified Arborist when working within the TPZ.
- 3. Roots that are encountered shall be cut to sound wood and repaired. Roots 2-inches and greater must remain injury free and uncut.
- 4. Any approved excavation, demolition or extraction of material shall be performed with equipment sitting outside the tree protection zone. Methods permitted are by hand digging, hydraulic or pneumatic air excavation technology. Avoid excavation within the TPZ during hot, dry weather. If excavation or trenching for drainage, utilities, irrigation lines, etc.,
- 5. Grade changes within the tree protection zone are not permitted unless approved by the Project Arborist.
- 6. Grade changes outside of the tree protection zone shall not significantly alter drainage within the TPZ.
- 7. Grade changes under specifically approved circumstances shall not allow more than 6inches of fill soil added or allow more than 4-inches of existing soil to be removed from natural grade.
- 8. Grade fills over 6-inches or impervious overlay shall incorporate an approved permanent aeration system, permeable material or other approved mitigation.

- 8. Grade cuts exceeding 4-inches shall incorporate retaining walls or an appropriate transition equivalent.
- 9. If excavation or trenching for drainage, utilities, irrigation lines, etc., it is the duty of the contractor to tunnel under any roots 2-inches in diameter and greater. Prior to excavation for foundation/footings/walls, grading or trenching within the TPZ, roots shall first be severed cleanly 1-foot outside the tree protection zone and to the depth of the future excavation. The trench must then be hand dug and roots pruned with approved root pruning equipment.
- If injurious activity or interference with roots greater than 2-inches will occur within the tree protection zone, plans shall specify a design of special foundation, footing, walls, concrete slab or pavement designs subject to *City Arborist* approval. Discontinuous foundations such as concrete pier and structural grade beam must maintain natural grade (not to exceed a 4-inch cut), to minimize root loss and allow the tree to use the existing soil.
- 11. Basement excavations shall be designed outside the tree protection zone of all protected trees unless approved by the City Arborist, and shall not be harmful to other neighboring property trees.
- 12. Use of backhoes, steel tread tractors or any heavy vehicles within the TPZ is prohibited unless approved by the Project Arborist. If allowed, a protective root buffer is required. The protective buffer shall consist of a base course of tree chips spread over the root area to a minimum of 6-inch depth, layered by 3/4-inch quarry gravel to stabilize 3/4-inch plywood on top. This buffer within the tree protection zone shall be maintained throughout the entire construction process.

Trenching, Tunneling and Directional Drilling for Utilities

- 1. If trenching or pipe installation has been approved within the tree protection zone, then the trench shall be either cut by hand, air-spade, hydraulic vacuum excavation or, by mechanically boring the tunnel under the roots with a horizontal directional drill and hydraulic or pneumatic air excavation technology.
- 2. Utility pipe must be installed immediately, backfilled with soil and soaked within the same day.
- 3. Street Trees that are in conflict with utility infrastructure where the conflict cannot be resolved may be removed if approved by the City Arborist. All Street Tree removals are subject to replacement.
- 4. Emergency utility repairs shall be exempt from the above restriction zones within the Tree Protection Zone. The City Arborist shall be contacted after any such repairs that may result in significant tree damage or removal.

Pavement and Hardscape

Conflicts may occur when tree roots grow adjacent to paving, foundations, sidewalks or curbs (hardscape). Improper or careless extraction of these elements can cause severe injury to the roots and instability or even death of the trees. The following alternatives must first be considered before root pruning within the tree protection zone of a tree:

- 1. Grinding a raised sidewalk edge.
- 2. Ramping the walking surface over the roots.
- 3. Routing the sidewalk around the tree roots.
- 4. Install flexible paving or rubberized sections.
- 5. On private property, new sidewalk or driveway design should consider alternatives to

conventional pavement and sidewalk materials. Substitute permeable materials for typical asphalt or concrete overlay, sub-base or footings to consider are: permeable paving materials (such as ECO-Stone or RIMA pavers), interlocking pavers, flexible paving, wooden walkways, porches elevated on posts and brick or flagstone walkways on sand foundations.

Removal of existing pavement over tree roots shall include the following precautions:

- 1. Break hardscape into manageable pieces with a jackhammer or pick and hand load the pieces onto a loader. The loader must remain on undisturbed pavement or off exposed roots.
- 2. Do not remove base rock that has been exploited by established absorbing roots.

Replacement of pavement or sidewalk:

- 1. An alternative to the severance of roots greater than 2- inches in diameter should be considered before cutting roots.
- 2. If an alternative is not feasible, remove the sidewalk, remove roots only as approved by the City Arborist and replace sidewalk using #3 dowels at the expansion joint if within 10-feet of a street tree. Use a wire mesh reinforcement within if within 10-feet of the trunk of a protected or street tree. Any work in the right-of-way requires a street work permit from Public Works Department.

Conflicts and associated costs can be avoided or reduced by the following planting practices:

- 1. Plant deep rooted trees that are proven to be non-invasive.
- 2. Over soil that shrinks and swells, install a sidewalk with higher strength that has wire mesh and/or expansion slip joint dowel reinforcement.
- 3. Follow soil loosening planting techniques to promote deep rooting.
- 4. Install root barrier only along the hardscape area of the tree and allow roots to use open lawn or planter strip areas.
- 5. Dedicate at least 10-linear feet of planting space for the growth of each tree.
- 6. When designing hardscape areas near trees, the project architect or engineer should consider the use of recommended base course material such as an engineered structural soil mix.

Invasive species removal

Often, contractors will be required to remove invasive plant species from the understory in TPZ's. In most cases, native understory plants shall be saved and the area will be fully cleared of invasive species. The following practices must be followed when removing invasives:

- 1. The preferred method for invasive plant removal, is by hand, extracting the entire plant, including the roots. Other manual methods include cutting the plants to ground level, either mechanically, or with hand tools, and spraying the new growth with an approved herbicide. In either case, native understory plants may not be harmed or removed.
- If heavy machinery is used, for example, a brush rake attached to an excavator, the machine must stay outside of the TPZ and "reach" into the area, carefully extracting the invasives without damaging the protected trees or native understory whatsoever.

3. In some cases, a restoration of native understory may be required. An approved list of native plants is included as <u>appendix B</u>

RECOMMENDATION FOR CONSTRUCTION DAMAGE TO PROTECTED TREES

Any damage or injury to trees shall be reported within 6-hours to the Project Arborist and Site Superintendent or City Arborist so that mitigation can take place. All mechanical or chemical injury to branches, trunk or to roots over 2-inches in diameter shall be reported in the monthly inspection report. In the event of injury, the following mitigation and damage control measures shall apply:

- **Root injury:** If trenches are cut and tree roots 2-inches or larger are encountered they must be cleanly cut back to a sound wood lateral root. All exposed root areas within the TPZ shall be backfilled or covered within one hour. Exposed roots may be kept from drying out by temporarily covering the roots and draping layered burlap or carpeting over the upper 3-feet of trench walls. The materials must be kept wet until backfilled to reduce evaporation from the trench walls.
- **Bark or trunk wounding:** Current bark treatment methods shall be performed by a qualified tree care specialist within two days.
- **Scaffold branch or leaf canopy injury:** Remove broken or torn branches back to an appropriate branch capable of resuming terminal growth within five days. If leaves are heat scorched from equipment exhaust pipes, consult the Project Arborist within 6 hours.

Construction Injury Mitigation

A mitigation program may be required if it is found the approved development will cause drought stress, dust accumulation or soil compaction to trees that are to be saved. To help reduce impact injury, one or more of the following mitigation measures shall be implemented and supervised by the Project Arborist as follows:

- **Irrigation Program:** Irrigate to wet the soil within the tree protection zone to a depth of 24-inches to 30-inches. Or, apply sub-surface irrigation at regular specified intervals by injecting on approximate 3-foot centers, 10-gallons of water per inch trunk diameter within the tree protection zone. Duration shall be until project completion or monthly until seasonal rainfall totals at least 8-inches of rain, unless specified otherwise by the certified arborist.
- **Dust Control Program:** During periods of extended drought, wind or grading, spray wash trunk, limbs and foliage to remove accumulated construction dust.
- **Compaction Mitigation:** If inadvertent compaction of the soil has occurred within the tree protection zone, the soil shall be loosened by one or more of the following methods to promote favorable root conditions: vertical mulching, soil fracturing, core-venting, radial trenching or other method approved by the City Arborist.
- Aeration System: If an approved paving, hardscape or other compromising material encroaches within the tree protection zone, an aeration system may be required and shall be designed by the Project Arborist and used within this area.

MITIGATION TREE MAINTENANCE RECOMMENDATIONS

TREE PLANTING SPECIFICATIONS

Planting specifications apply for trees that are planted as a replacement for a tree approved for removal. Using the following specifications will result in consistent city-wide plantings, and superior tree growth and vitality. To achieve this, landscape architects shall incorporate these items into their specifications.

PLANTING STOCK

It is the contractor's responsibility to supply stock that meets ANSI 760.1-1996 and City of West Linn *Tree Technical Manual Standards*. All plants and trees installed within the City of West Linn shall conform with American Association of Standards, ANSI Z60.1, *Specifications for Acceptance of Nursery Trees at the Time of Delivery*, in all ways.

- Plants shall be sound, healthy, vigorous, and free of plant disease and insect pests and their eggs.
- Container stock shall be grown for at least 8-months in containers in which delivered and shall not be root bound or have girdling roots.
- Trees shall not have been topped or headed.
- Plants and trees with broken tops, branches or injured trunks shall be rejected.

RECOMMENDED MITIGATION TREES

There are many trees available that are appropriate for use as mitigation trees, and new varieties are being developed every year. The City shall maintain a list of appropriate trees for planting in the City, either as street trees, or for use in yards, parks, etc. and is <u>appendix A</u> to the City of West Linn Tree Technical Manual. The list will be updated periodically as new varieties are available, or as information is received about diseases, insects and other nuisances. Please consider the location, size of planting area, and other site specific variables when choosing a tree.

MISCELANEOUS MATERIALS

The following materials shall be used unless otherwise specified:

- **Tree stakes:** Support stakes shall be treated 2-inch diameter pine or equal, two stakes per tree. No cross brace shall be used. After installation, stakes shall be trimmed so that the branches clear the top of the stake.
- **Tree Ties:** Twist brace, fabric-reinforced rubber (3/8-inch minimum), or equivalent approved by the City of West Linn shall be used and installed in a figure eight fashion to support the tree to the stakes.
- **Mulch:** Screened untreated wood chips, bark dust or approved equal, spread to a 2-inch depth out to the edge of the root ball. The mulch should be kept at least two inches away from the trunk and shall be applied to each tree.
- **Mower guards:** For trees in turf areas requiring regular mowing, the tree stem shall be protected with Tree Guard or equivalent.
- **Tree Grates:** Where sidewalk width is less than 8-feet and new trees will be installed in a tree well, metal tree grates shall be used and approved by Public Works. Minimum size grates shall be 4' x 4' unless specified otherwise. All tree grates shall be mounted in frames inset into a concrete foundation within the sidewalk or surface material and shall be flush with the surrounding surface.

SOIL PREPARATION AND CONDITIONING

- All debris, wood chips, pavement, concrete and rocks over 2-inches in diameter shall be removed from the planting pit to a minimum of 24-inchdepth, unless specified.
- Trees in a confined planter pit or sidewalk area: The planting hole shall be excavated to a minimum of 30-inches deep x the width of the exposed area. Scarify the sides of the pit. Soil beneath the root ball shall be compacted to prevent settling. Trees in all other areas: Excavate the hole's width a minimum of three times the diameter of the container, and deep enough to allow the root ball of the container to rest on firm soil. Scarify the sides and the bottom of the pit. The height of the container root ball should be 1-2-inches higher than grade level, except when structural urban tree soil mix is used, in which case the tree may be planted at level grade. If the soil is dry, add a few inches of water in the hole. Let it drain before planting the tree.

PLACING THE TREE

Roots: Remove tree from the container and trim the root ball in the following Way. Straighten and/or cut cleanly any thick circling roots. For thin roots, make three to four vertical cuts 1/2-inch deep around root ball and spread the bottom out if necessary

Orientation: Locate the tree in the hole, and rotate the tree to direct the main branches away from the street side, if possible.

Filling the Hole: Place the aeration tubes, fill the hole halfway up with original soil (amended soil only when approved), and gently tamp out air pockets with a pole or shovel handle. Add about 1 -inch of water, and let drain. Fill the rest of the hole to grade, water the fill soil, and let drain.

Staking: Place the stakes at the edge of the root ball (drive them 2-feet into undisturbed ground), and avoid contact with the branches. If in a windy area, set the stakes in a plane at right angles to the wind. Remove the nursery stake. Loosely place two ties in a figure eight around the trunk, as low as needed to hold the tree upright and nail to the stake. Stakes shall be trimmed so that the branches clear the top of the stake. Do not install a cross-brace.

Berm, Mulch and Water: In non-turf areas, form a soil berm 3 to 4-inches high at the outermost edge of the root ball. Place 1 to 2-inches of mulch or bark over root ball and berm, keeping the mulch away from the trunk a minimum of 2-inches. Fill the berm with water to capacity.

Turf Areas: In turf areas that receive regular watering, the watering berm may be eliminated. The turf shall be maintained a minimum of one foot from the new tree stem, and mulch placed on top of the root ball. The mulch shall not be touching the tree stem.

Aeration Tubes for Trees: If required, 4-inch diameter perforated aeration tubes with grated plastic caps placed at the edge of the root ball to the bottom of the pit. Irrigation heads shall not be installed inside the aeration pipes. Any of the above holes, pipes, grates or fixtures shall include the installation of Filter Fabric wrap over the side openings and secured as recommended by manufacturer when connected to an approved aeration system.

Alternate Specifications: Occasionally, tree planting must occur in poor or difficult soil where standard planting techniques will result in poor-to-average performance or mortality (such as unique or unusual regional geology, slope,oil volume, restrictive physical or chemical properties, poor drainage, etc.). In this case, the responsible party must investigate alternative solutions to enable long term tree

growth. Alternative planting specifications or plans that vary from the native or typical soil conditions shall be submitted to the *City Arborist* for approval prior to installation. Alternative or specified soils, such as engineered, amended or structural urban tree soil mix, including written specifications and physical samples, shall be submitted for approval from the City Arborist and/or Landscape Architect.

III. <u>Recommendations for Maintenance and Post Construction Activity</u>

The following maintenance standards apply to maintenance obligations for trees along the pipeline route for a period of two years following completion of the improvement installation.

- a. Carefully landscape the area under the tree, being careful of the roots and structure. Use plantings that will live under the same conditions as that of the tree.
- b. Provide insect and disease control, fertilization and pruning as needed or adhere to long term protection plan if provided.
- c. Avoid direct irrigation spraying onto the trunk. The amount of irrigation needed to keep new plantings alive can often be enough to kill mature trees.
- d. Do not cover existing root systems with more than 2" of soil. The more soil you add, the greater the chances of damaging the root system.
- e. Provide irrigation and/or drainage to emulate pre-construction conditions.
- f. These practices shall be followed during and post construction in accordance with the construction schedule provided for in the Construction Management Plan, as approved by the City of West Linn.

PRUNING STANDARDS

The most compelling reason to prune trees is to develop a strong, safe framework. All work to be performed on trees shall be in accordance with the standards set forth in this manual. All specifications for working on trees shall be written and shall be administered by a qualified arborist, and shall be designed to promote the preservation of tree structure and health. All work on trees shall be in accordance with the most current industry standards. Climbing and pruning practices shall not injure the tree except for the pruning cuts. To reduce the probability of insect infestation, disease or infection, seasonal recommendations apply, except when public safety is a concern. All species should not be pruned during the flush of spring shoot growth. Trees with thin bark should not be pruned in summer when sunscald injury may be a factor. Deciduous trees are best pruned November-February. Hazardous trees of any species may be pruned any time of the year for abatement reasons.

Mature Trees

There are six types of pruning that may be required on mature trees. Prior to entering the tree, the tree worker is required to be familiar with these types of pruning as stated in the Performance Standards, ANSI, A300-1995. 'Species-specific' pruning promotes the natural shape of the tree (i.e. excurrent, decurrent, vase-shaped, fast growing, etc.) The six pruning types are:

- Crown Cleaning
- Crown Thinning
- Crown Raising
- Crown Restoration
- Crown Reduction
- Utility Pruning

Distressed Trees

Distressed trees require as much leaf area as possible to overcome stressed conditions. To avoid additional injury, the following measures shall be followed for these trees:

- If a tree has been damaged by injury or disturbance, delay pruning until deadwood becomes evident (typically 1-3 years after injury). Crown cleaning is then recommended.
- Trees that have received little or no care or maintenance may need moderate crown thinning, reduction of end weights or entire crown restoration.

Young Trees

By pruning trees early, it will improve life expectancy and is a proven, cost-effective measure. Added benefits are also reflected in safer trees with fewer branch failures. For trees that serve as a replacement tree, they shall be pruned in the following way:

- Prune during the second year after planting to improve their structure, and only minor crown cleaning every 3-7 years thereafter. Refer to *ISA Tree Pruning Guidelines.*
- Do not top the main leader except to position the lowest main branch. Other main branches should be spaced at least 18-inches apart to alleviate a tight grouping branches.
- Select permanent branching and allow temporary low branching on the lowest part of the trunk to remain.

FERTILIZING

This section outlines performance standards for fertilizing and apply only if fertilizing is specified. Fertilizing mature trees is generally not necessary. Fertilizing may be specified for trees that will be impacted by upcoming disturbance, grade changes or a modified environment. Benefits gained from the increase stored resources may aid the tree to overcome the stress caused by disturbance. The Project Arborist shall determine specific amounts of fertilizer to be applied to specifics trees as may be necessary.

Foliar disease

Leaf spot or galls may be chronic or reoccur with specific seasons. Though many of these diseases destroy leaf tissue and become unsightly, they may not significantly reduce the trees health and therefore normally need not be treated unless otherwise specified.

TREE PLANTING SPECIFICATIONS

Planting specifications apply for trees that are planted as a replacement for a tree approved for removal. Using the following specifications will result in consistent city-wide plantings, and superior tree growth and vitality. To achieve this, landscape architects shall incorporate these items into their specifications.

PLANTING STOCK

It is the contractor's responsibility to supply stock that meets ANSI 760.1-1996 and City of West Linn *Tree Technical Manual Standards.* All plants and trees installed within the City of West Linn

shall conform with American Association of Standards, ANSI Z60.1, *Specifications for Acceptance of Nursery Trees at the Time of Delivery*, in all ways.

- Plants shall be sound, healthy, vigorous, and free of plant disease and insect pests and their eggs.
- Method of application: The method shall be subsurface injection, on approximate 3-foot centers (within the root ball on young trees; 2-feet out on older trees) and out to the approximate dripline perimeter. Specific situations may justify other variations such as vertical mulch, soil-fracture or surface-broadcast methods.
- Material and Rates: Unless specified otherwise, fertilizer formula shall be a slow-release, complete fertilizer with chelate trace elements (e.g. 22-14-14 or 20-20-20) and mixed at label rates not to exceed 4-pounds nitrogen per 100-gallons of water. Extraordinary cases may require soil and tissue sampling to correct target deficiencies.
- Amount: Unless specified otherwise, volume shall be determined by mixing 10-gallons of water per inch of trunk diameter when measured at 54-inches above natural grade.
- Timing: Timing should not be detrimental to tree health. Best results are derived from applications made during the prior growing season. Apply fertilizer between May and September for best results.

WATERING

Newly installed trees and root zone impacted trees, including drought tolerant species, are dependent upon supplemental irrigation until established, typically for two years. Periods of extreme heat, wind or drought may require more or less water than recommended in these specifications. The method and amount that is applied may vary depending upon soil composition, heat, wind, companion plantings, rainfall amounts. The watering of trees or their replacements shall follow the standards set forth in this manual.

New Trees

During the establishment period (1-2 years) trees should be watered thoroughly to their root depth as frequently as needed. The minimum standards shall be as follows:

- 3 months in the ground: 4 times per month or as necessary
- 6 months in the ground: 2 times per month or as necessary
- 12 months in the ground: 1 time per month or as necessary

Mature trees and root zone impacted trees

• 1 time per month during irrigation season (usually June through September)

Watering Methods

The following options shall fulfill the watering requirements. One or more of the following may be utilized dependent upon unique circumstances subject to the City Arborist determination. The options are as follows: Automated Watering Systems. All new trees shall be provided with one of the following automatic watering systems. Other city maintained systems shall be per Parks Department specifications.

<u>Bubbler Heads</u> (Preferred). One or two bubbler heads mounted on flexible tubing are to be placed adjacent to or on top of the root ball. The placement of bubbler within an aeration tube is not allowed.

<u>Drip Loop System</u>. A continuous loop of drip tubing circling around the trunk at a point two-thirds out from the trunk to the edge of the root ball (for new trees 36-inch box size and greater, a second loop of drip tubing is required at a point just beyond the root ball on native soil). Hand watering systems. Recommended for trees that are part of a development project that must be watered to insure tree survival during the course of construction until automatic irrigation is installed. Flood watering. Newly installed trees must be 'flood or basin-watered' on top of the root ball to allow the water to infiltrate through the root zone. Subsurface injections using a hydraulic spray pump (practical for use in hard, compacted soils or steep hillsides).

<u>Soaker Hose</u>. Slow, deep watering using a garden type soaker hose. Wetting agent. A root ball that has been allowed to dry out beyond the wilting point shall require the addition of a wetting agent to the water (such as Aqua-grow or equivalent).

Amount

Unless otherwise specified, the volume of water applied at each irrigation should be in the range of 10-gallons per inch of trunk diameter when measured at 54-inches above natural grade. The final decision of whether to water or not should be based on accurate soil probe samples that are taken from the root ball.

SOIL IMPROVEMENT

During development, compaction of the soil is the largest single factor responsible for the decline of older trees. Ninety percent of the damage to the upper eighteen inches of soil occurs during the first pass of heavy equipment - and cannot be reversed. Every effort to avoid compaction of soil porosity within the tree protection zone shall be taken at all times. When required as mitigation for injury or a prohibited action, the following performance standards for improvement of compacted or damaged soil shall be implemented:

Aeration

Soil that is damaged or compacted within the dripline of trees shall be loosened or aerated to promote root growth and enhance tree vitality. One of the following aeration methods shall be specified an in effort to correct compacted soil conditions:

- Vertical Mulching: Auger holes 2 to 4-inch diameter, 2 to 3-feet deep, on 4-foot centers and backfilled with porous material such as perlite, vermiculite or volcanic rock.
- Radial Trenching: With an air excavator, excavate a soil trench 3 to 6-inches wide and a minimum of 12-inches deep from (approximately) 3-feet from the trunk out to the dripline area. The trenches shall radiate out from one foot apart at the closest point.
- Soil-fracturing with a pneumatic air-driven device.
- Subsurface injections under moderate hydraulic pressure using a three foot probe and applied on 3-foot centers under the dripline.

Drainage

Adequate drainage must be provided to the surrounding soil for the planting of new trees. If the trees are to be planted in impermeable or infertile soil, and water infiltration rates are less than 2-

inches an hour, then one of the following drainage systems or other approved measures must be implemented:

- French drain, a minimum of three feet in depth
- Drain tiles or lines beneath the trees
- Auger six drain holes at the bottom perimeter of the planting pit, a minimum of 4-inches in diameter, 24-inches deep and filled with medium sand or fine gravel

INSECT AND DISEASE CONTROL

Generally, insect populations do not threaten tree health to the point of mortality. More often, when their populations become too great they create a nuisance. If action is warranted, Integrated Pest Management (I.P.M.) suggests that the pest source be identified and targeted with a specific and timely treatment. If insects or disease can lead to the death of *a protected tree*, then it is the responsibility of the property owner to evaluate the condition according to the guidelines set forth in this manual, and treat the problem in a timely fashion to prevent further deterioration of the tree.

Insects

Accurate timing is critical for success. Nontoxic materials should be used whenever possible to control leaf-chewing insects.

Disease and Decay - above ground

Disease such as heart-rot decay that erodes the health or weakens the structure of a tree may compromise the safety of people or property. It is the property owner's responsibility to correct a known hazardous condition in a timely fashion.

Consult with a certified arborist for remedy possibilities, for example, pruning out infected branches, thinning, or the spray application of a chemical treatment.

Disease - below ground

Soil-borne diseases, such as Armillaria or Phytophthora, are present in West Linn soils. Often, a poor landscape design surrounding old trees encourages harmful, and often lethal diseases. Combined with poorly drained soil, these factors often activate normally dormant fungi to become opportunistic and infect the tree to cause the decline and eventual death of the tree. This decline can be slow and may not be evident for many years. To identify cultural conditions that may lead to diseases such as Verticillium, Phytophthora or other soilborne fungi, review the *Sunset Western Garden Book* or consult with a Certified Arborist. The following conditions that favor a disease environment must be avoided:

- Compacting of the soil within the tree's dripline, adding fill dirt, roto-tilling, trenching, removing soil from the tree root area.
- Excessive or regular watering on or near the tree trunk area and planting incompatible water-loving plants within the tree's dripline.
- Landscape Design: When planning landscaping around a tree, an evaluation
 of the tree and soil must be performed to determine if there is a disease
 present. If the tree is diseased and landscaping will contribute to decline,
 permanent damage or render it hazardous, it is the obligation of the property
 owner to take reasonable measures to reduce or eliminate the conditions that
 may cause the decline of the protected or designated tree.

Foliar disease

Leaf spot or galls may be chronic or reoccur with specific seasons. Though many of these diseases destroy leaf tissue and become unsightly, they may not significantly reduce the trees health and therefore normally need not be treated unless otherwise specified.

IV. Construction Meeting and Inspection Schedules

A certified arborist shall be retained by the applicant during the construction of the projects. This project arborist retained shall conduct the following required inspections for the duration of construction activity. Correspondence may be as simple as e-mail in some cases or may require larger documents with tables, photographs, etc. for others. See construction schedule and Construction Management Plan in the Land Use application

- **Inspection of Protective Tree Fencing:** The City Arborist shall be in receipt of a written statement from the applicant or project arborist verifying that the protective tree fencing has been installed and may be inspected by the City Arborist prior to issuance of a demolition, grading, or building permit, unless otherwise approved.
- **Pre-Construction Meeting:** Prior to commencement of construction, the applicant or contractor may be required to conduct a pre-construction meeting to discuss tree protection with the job site superintendent, grading equipment operators, certified arborist, and City Arborist.
- **Monthly Inspections:** The Project Arborist shall perform monthly inspections to monitor changing conditions and tree health. The City Arborist shall be in receipt of an inspection summary during the first week of each calendar month or, immediately if there are any changes to the approved plans or protection measures.
- **Special Activity Within the Tree Protection Zone:** Work in this area (TPZ) requires the direct onsite supervision of the City Arborist.
- **Project Summary and Conclusion:** A brief summary discussing the project's trees shall be submitted to the City Arborist at the conclusion of all construction activity. It shall include concerns about trees that may have been negatively impacted as well as recommendations for care of the trees in the future.

NOTE: This tree protection plan identifies construction protection measures to prevent unwarranted tree loss. The identified measures limit the amount of earth disturbance surrounding the trees, and limit the removal of the tree's root systems. Due to the variation of every project, it is unlikely that all of the above identified measures can be practicably applied to each individual tree; nor is it likely each measure is necessary to retain each tree. Prior to the beginning of construction a meeting between a certified arborist and the necessary contractors will be held to determine the appropriate level of protection for each tree, in relation to what work needs to be completed in the tree's vicinity. On site supervision by a certified arborist will be determined and supplied as necessary.

CONCLUSIONS

Of the 410 trees on site, 46% are trees regulated by City of West Linn ordinance. About 30 percent of the regulated trees are native Oregon Ash most of which are in Poor to Very Poor condition and should be further evaluated for hazard risk. No trees qualifying for status as Heritage Trees were found.

Sincerely,

agfinger

Kay Kinyon Tree Care & Landscapes Unlimited, Inc. Certified Arborist by the International Society of Arboriculture, #PN-0409

Appendix 1--4260 Kenthorpe Way, 4245, 4305 & 4315 Mapleton Dr. Tree Assessment

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NO.	COMMON NAME	BOTANICAL NAME	DBH	HEIGHT	SPREAD	FORM	CROWN CLASS	AGE CLASS	TREE HEALTH	REGULATED	SIGNIFICANT	GROVE	COMMENTS
13082	Black Cottonwood	Populus trichocarpa	21	80	40	Fair	Dominant	Mature	Poor	Yes		Yes	6" x 24" cavity from ground on N. side.
13083	Black Cottonwood	Populus trichocarpa	23	90	45	Fair	Fair	Mature	Fair	Yes		Yes	
13084	Black Cottonwood	Populus trichocarpa	16	80	40	Fair	Dominant	Mature	Fair	Yes		Yes	
13387	Shore Pine	Pinus contorta	8	25	15	Good	Below Canopy	Young	Good	No		Yes	
13388	Western Red Cedar	Thuja plicata	15	30	30	Good	Below Canopy	Young	Good	Yes		Yes	6 stems 10,6,6,7,3,3.
13389	Western Red Cedar	Thuja plicata	12	30	20	Good	Below Canopy	Young	Good	Yes		Yes	6 stems 10,0,0,1,3,5.
13390.1	Douglas Fir	Pseudotsuga menziesii	6	25	15	Good	Below Canopy	Young	Good	No		Yes	
13402		Tsuga canadensis	8		15	Good		Semi-mature	Good			No	
	Canadian Hemlock		24	25 35	20		Single tree			No			24" v 20' covity from ground on S. cido
13429	Western Red Cedar	Thuja plicata				Fair	Co-dominant	Mature	Very Poor	Yes	Yes	Yes	24" x 20' cavity from ground on S. side.
13431	Grand Fir	Abies grandis	10	25	15	Good	Below Canopy	Young	Good	Yes		Yes	
13431.2	Western Red Cedar	Thuja plicata	11	30	20	Good	Below Canopy	Young	Good	No		Yes	
13431.3	Western Red Cedar	Thuja plicata	6	20	10	Good	Below Canopy	Young	Good	No		Yes	
13431.6	Western Red Cedar	Thuja plicata	6	25	12	Good	Below Canopy	Young	Good	No		Yes	
13431.7	Western Red Cedar	Thuja plicata	11	30	12	Good	Below Canopy	Young	Good	No		Yes	
13431.8	Western Red Cedar	Thuja plicata	7	30	12	Good	Below Canopy	Young	Good	No		Yes	
13432	Western Red Cedar	Thuja plicata	39	40	25	Good	Co-dominant	Semi-mature	Good	Yes	Yes	Yes	
13433	Western Red Cedar	Thuja plicata	29	40	30	Good	Co-dominant	Mature	Poor	Yes	Yes	Yes	7" x 6' cavity from ground on W. side.
13434	Western Red Cedar	Thuja plicata	29	40	30	Good	Co-dominant	Mature	Poor	Yes	Yes	Yes	6" x 20' cavity from ground on W. side.
13435	Bigleaf Maple	Acer macrophyllum	39	70	40	Good	Dominant	Mature	Good	Yes	Yes	Yes	2 stems 26,29.
13437	Pacific Waxmyrtle	Myrica californica	11	20	25	Fair	Below Canopy	Mature	Poor	No		Yes	4 stems 7,7,3,4. Topped. Stem cavities.
13438	Pacific Waxmyrtle	Myrica californica	10	20	25	Fair	Below Canopy	Mature	Poor	No		Yes	Topped. Trunk cavity. Measured at 3' above ground.
13441	Bigleaf Maple	Acer macrophyllum	26	70	40	Fair	Co-dominant	Over-mature	Very Poor	Yes		Yes	3' x 3' cavity with bark inclusion from ground on W. side.
13442	Western Red Cedar	Thuia plicata	31	80	30	Good	Dominant	Mature	Good	Yes	Yes	Yes	
13443	Grand Fir	Abies grandis	28	80	20	Fair	Co-dominant	Over-mature	Poor	Yes	Yes	Yes	4" x 24" cavity from ground on W. side.
13463	Grand Fir	Abies grandis	30	60	25	Fair	Co-dominant	Mature	Poor	Yes	Yes	Yes	Thin crown.
13464	Grand Fir	Abies grandis	29	60	25	Fair	Co-dominant	Mature	Fair	Yes	Yes	Yes	
13542	Magnolia	Magnolia sp.	10	25	20	Good	Below Canopy	Young	Good	No	163	No	
13614	Western Red Cedar	Thuja plicata	11	30	20	Good	Co-dominant	Young	Good	No		No	
			_	25	-			<u>,</u>	Good				2 stows / F
13615	Magnolia	Magnolia sp.	8		20	Good	Below Canopy	Young		No		Yes	2 stems 6,5.
13616	Western Red Cedar	Thuja plicata	15	30	25	Good	Co-dominant	Young	Good	Yes		Yes	3 stems 8,7,10.
13617	Western Red Cedar	Thuja plicata	13	45	20	Good	Dominant	Semi-mature	Good	Yes		Yes	2 stems 10,8.
13618	Blue Atlas Cedar	Cedrus atlantica 'Glauca'	14	50	25	Good	Dominant	Semi-mature	Good	Yes		Yes	
13619	Deodar Cedar	Cedrus deodara	18	60	30	Good	Dominant	Semi-mature	Good	Yes		Yes	
13620	Deodar Cedar	Cedrus deodara	19	50	25	Good	Dominant	Semi-mature	Good	Yes		Yes	
13621	Shore Pine	Pinus contorta	10	30	20	Fair	Co-dominant	Young	Poor	No		Yes	
13622	Shore Pine	Pinus contorta	10	30	15	Fair	Co-dominant	Young	Fair	No		Yes	
13623	Shore Pine	Pinus contorta	11	30	15	Fair	Co-dominant	Young	Poor	No		Yes	Borers.
13626	Shore Pine	Pinus contorta	9	35	15	Fair	Co-dominant	Young	Poor	No		Yes	Thin crown. High crown. Borers.
13627	Shore Pine	Pinus contorta	11	35	15	Good	Co-dominant	Young	Good	No		Yes	
13628	Deodar Cedar	Cedrus deodara	15	45	20	Good	Co-dominant	Young	Good	Yes		Yes	
13629	Blue Atlas Cedar	Cedrus atlantica 'Glauca'	9	35	15	Good	Co-dominant	Young	Poor	No		Yes	Girdling root.
13630	Deodar Cedar	Cedrus deodara	14	40	20	Good	Co-dominant	Young	Good	Yes		Yes	
13631	Blue Atlas Cedar	Cedrus atlantica 'Glauca'	11	35	15	Good	Co-dominant	Young	Good	No		Yes	
13658	Bigleaf Maple	Acer macrophyllum	17	30	30	Good	Below Canopy	Young	Good	No		Yes	8 stems 8,5,8,5,6,7,4,4
13689	Pacific Waxmyrtle	Myrica californica	11	20	25	Fair	Below Canopy	Mature	Poor	Yes		Yes	6 stems 6,5,3,3,5,5. Cavities in all stems. Topped. Stem
13690	Pacific Waxmyrtle	Myrica californica	9	12	15	Fair	Below Canopy	Mature	Poor	No		Yes	2 stems 6,3.
13728	Western Red Cedar	Thuja plicata	8	35	20	Fair	Co-dominant	Young	Good	No		Yes	
13728.1	Vine Maple	Acer circinatum	10	25	20	Good	Co-dominant	Young	Good	No		Yes	
13728.3	Oregon White Oak	Quercus garryana	14	25	25	Fair	Co-dominant	Young	Good	Yes		Yes	
13729	Western Red Cedar	Thuja plicata	13	35	20	Fair	Co-dominant	Young	Good	Yes		Yes	3 stems 5,10,7.
13730	Western Red Cedar	Thuja plicata	13	35	20	Fair	Co-dominant	Young	Good	Yes		Yes	2 stems 7,12.
13730.1	Vine Maple	Acer circinatum	10					<u> </u>		No		Yes	
13736	Western Red Cedar	Thuja plicata	11	25	20	Fair	Co-dominant	Young	Good	No		Yes	
13737	Shore Pine	Pinus contorta	10	25	20	Fair	Co-dominant	Young	Good	No		Yes	
13738	Western Red Cedar	Thuia plicata	10	25	20	Fair	Co-dominant	Young	Good	No		Yes	
13739	Western Red Cedar	Thuja plicata	10	25	20	Fair	Co-dominant	Young	Good	No		Yes	
13739.2	Western Red Cedar	Thuja plicata	10	25	20	Fair	Co-dominant Co-dominant	Young	Good	No		Yes	
13739.2	Western Red Cedar	Thuja plicata	8	30	20	Good	Co-dominant Co-dominant	Young	Good	No		Yes	
13030	western keu ceudi	inuja piicata	0	30	20	6000	50-uumindill	Toung	0000	NU		162	

NO.	COMMON NAME	BOTANICAL NAME	DBH	HEIGHT	SPREAD	FORM	CROWN CLASS	AGE CLASS	TREE HEALTH	REGULATED	SIGNIFICANT	GROVE	COMMENTS
13884	Oregon Ash	Fraxinus latifolia	8	50	20	Fair	Below Canopy	Semi-mature	Fair	No		Yes	
13885	Oregon Ash	Fraxinus latifolia	22	80	40	Fair	Dominant	Mature	Fair	Yes		Yes	
13885.2	Oregon Ash	Fraxinus latifolia	27	90	50	Good	Dominant	Mature	Good	Yes	Yes	Yes	
13885.5	Oregon Ash	Fraxinus latifolia	8	35	20	Poor	Below Canopy	Semi-mature	Poor	No	Yes	Yes	Suppressed.
13885.7 13885.9	Western Red Cedar Oregon Ash	Thuja plicata Fraxinus latifolia	21 13	60 70	25 30	Good Fair	Co-dominant Co-dominant	Mature Mature	Good Fair	Yes Yes		Yes Yes	Higher crown.
13886	Willow	Salix sp.	19	30	20	Poor	Below Canopy	Mature	Very Poor	Yes		Yes	4 stems 12,6,11,8. Severe cavities & decay all stems.
13886.1	Oregon White Oak	Quercus garryana	18	70	30	Fair	Co-dominant	Semi-mature	Fair	Yes	Yes	Yes	2 stems 10,15.
13886.2	Oregon Ash	Fraxinus latifolia	21	70	30	Fair	Co-dominant	Mature	Fair	Yes	Yes	Yes	2 310113 10,13.
13886.3	Vine Maple	Acer circinatum	9	15	20	Good	Below Canopy	Mature	Good	No		Yes	
13887	Willow	Salix sp.	10	25	20	Poor	Below Canopy	Mature	Very Poor	No		Yes	Broken top. Decay.
13960	Norway Maple	Acer platanoides	21	45	30	Good	Co-dominant	Mature	Fair	Yes	Yes	Yes	3" x 3' cavity from ground on S. side.
13960.1	Oregon Ash	Fraxinus latifolia	18	70	50	Fair	Dominant	Mature	Good	Yes	Yes	Yes	3 stems 13,11,7.
13960.4	Douglas Fir	Pseudotsuga menziesii	6	15	14	Good	Below Canopy	Young	Good	No		Yes	
13960.8	Redosier Dogwood	Cornus sericea	6	20	20	Fair	Below Canopy	Mature	Fair	No		Yes	2 stems 4,4
13960.9	Douglas Fir	Pseudotsuga menziesii	8	25	15	Good	Below Canopy	Young	Good	No		Yes	
13985	Douglas Fir	Pseudotsuga menziesii	7	25 25	15	Good	Below Canopy	Young	Good Good	No		Yes	
13985.1 13986	Douglas Fir Douglas Fir	Pseudotsuga menziesii	7	25	15 15	Good Good	Below Canopy Below Canopy	Young	Good	No No		Yes Yes	
13986.1	Douglas Fir	Pseudotsuga menziesii Pseudotsuga menziesii	6	25	15	Good	Below Canopy	Young Young	Good	No		Yes	9' NW #13985, 8' NE #13986. Tag missing.
13986.2	Douglas Fir	Pseudotsuga menziesii	7	25	15	Good	Below Canopy	Young	Good	No		Yes	7 NW #13703, 0 NE #13700. Tag missing.
13987	Douglas Fir	Pseudotsuga menziesii	8	25	15	Good	Below Canopy	Young	Good	No		Yes	
13990.1	Sweet Cherry	Prunus avium	6	25	15	Fair	Below Canopy	Young	Fair	No		Yes	
13990.2	Sweet Cherry	Prunus avium	8	25	15	Fair	Below Canopy	Young	Fair	No		Yes	
13990.3	Western Red Cedar	Thuja plicata	6	25	15	Good	Below Canopy	Young	Good	No		Yes	
13992	Sweet Cherry	Prunus avium	8	25	15	Fair	Below Canopy	Young	Fair	No		Yes	3 stems 4,4,5.
13992.1	Western Red Cedar	Thuja plicata	25	40'	40'	Fair	Co-dominant	Semi-mature	Poor	Yes	Yes	Yes	Topped.
13992.2	Douglas Fir	Pseudotsuga menziesii	9	30	20	Good	Below Canopy	Young	Good	No		Yes	
13992.3	Douglas Fir	Pseudotsuga menziesii	10	30	20	Good	Single tree	Young	Good	No		Yes	
13992.4	Oregon White Oak	Quercus garryana	34	90	60	Good	Dominant	Mature	Good	Yes	Yes	Yes	3 stems 27,15,15.
13992.5	Douglas Fir	Pseudotsuga menziesii	8	25	15	Good	Below Canopy	Young	Good	No		Yes	
13992.6 14160	Red Maple Western Red Cedar	Acer rubrum Thuja plicate	9 11	30 30	20 25	Good Fair	Below Canopy Co dominant	Young Mature	Good Poor	No No		Yes Yes	Appears to be off property. Wound seam from ground to 18' above ground . Not 12".
14160.1	Pear, Common	Pyrus communis	14	30	25	Poor	Below canopy	Mature	Poor	No		Yes	2 stems 9,10. Fruit Tree
14163	European White Birch	Betula pendula	7	30	23	1001	below carlopy	Wature	Dead	NO		163	
14164	Spruce	Picea sp.	14	40	35	Fair	Co dominant	Semi-Mature	Good	Yes		Yes	
14165	Spruce	Picea sp.	10	30	20	Fair	Co dominant	Semi-Mature	Fair	No		Yes	Not 12".
14166	Giant Sequoia	Sequoiadendron giganteum	30	50	35	Good	Dominant	Mature	Good	Yes	Yes	Yes	
14167	Scotch Pine	Pinus sylvestris	17	40	30	Fair	Co dominant	Mature	Fair	Yes		Yes	
14168	Red Oak	Quercus rubra	25	55	50	Good	Dominant	Mature	Good	Yes	Yes	Yes	
14168.2	Western Red Cedar	Thuja plicata	6	25	20	Good	Below canopy	Young	Good	No		Yes	Not 12".
14170	Common Apple	Malus pumila	23	35	35	Poor	Below canopy	Over-mature	Poor	No		Yes	Stag headed. Fruit tree.
14171	London Planetree	Platanus × acerifolia	30	50	50	Fair	Dominant	Mature	Fair	Yes	Yes	Yes	2" x 6" cavity at ground on E side.
14171.1 14173	Western Red Cedar	Thuja plicata Picca sp	7	25 30	15 20	Fair	Below canopy	Young Somi Maturo	Fair	No No		Yes	Not 12". Suppressed Not 12"
14173	Spruce Douglas Fir	Picea sp. Pseudotsuga menziesii	22	30 55	30	Poor Good	Below canopy Dominant	Semi-Mature Mature	Poor Good	Yes		Yes Yes	Suppressed. Not 12".
14174	Arborvitae	Thuja occidentalis	8	20	30	Poor	Below canopy	Mature	Fair	No		Yes	Not 12".
14175	Shore Pine	Pinus contorta	13	40	25	Poor	Below canopy	Mature	Poor	Yes		Yes	Old broken top.
14177	Western Red Cedar	Thuja plicata	9	20	15	Good	Below canopy	Young	Good	No		Yes	
14178	Western Red Cedar	Thuja plicata	9	25	20	Good	Below canopy	Young	Good	No		Yes	Not 12".
14179	Western Red Cedar	Thuja plicata	11	25	20	Good	Co dominant	Young	Good	No		Yes	Not 12".
14180	Oregon White Oak	Quercus garryana	21	50	45	Good	Dominant	Mature	Good	Yes	Yes	Yes	
14181	Douglas Fir	Pseudotsuga menziesii	12	35	20	Fair	Below canopy	Semi-Mature	Fair	Yes		Yes	
14183	Spruce	Picea sp.	10	30	25	Poor	Co dominant	Semi-Mature	Fair	No		No	Leans W. Not 12"
14184	Arborvitae	Thuja occidentalis	9	20	8	Poor	Below canopy	Mature	Fair	No	V.	No	3 stems 3 stems 6,6,3. Not 12"
14191	Oregon White Oak	Quercus garryana	28	45	45	Good	Dominant	Mature	Good	Yes	Yes	No	N-+ 100
14196 14197	Plum	Prunus sp.	11 23	25	35 30	Very Poor	Below canopy	Over-mature	Fair	No Yes		Yes	Not 12".
14197	Spruce Scotch Pine	Picea sp. Pinus sylvestris	23 14	45 30	20	Good Poor	Co dominant Co dominant	Mature Mature	Good Poor	Yes		Yes Yes	Thin crown.
14198	Oregon Ash	Fraxinus latifolia	14	65	30	Very Poor	Co dominant	Over-mature	Very Poor	Yes		Yes	Stem failure at 30' above ground.
14199	Pine, Ponderosa	Pinus ponderosa	16	45	35	Fair	Co dominant	Mature	Poor	Yes		Yes	Thin crown.
14200	English Holly	Ilex aquifolium	8	20	15	Poor	Below canopy	Young	Fair	No		Yes	4 stems 5,4,4,3. Not 12"
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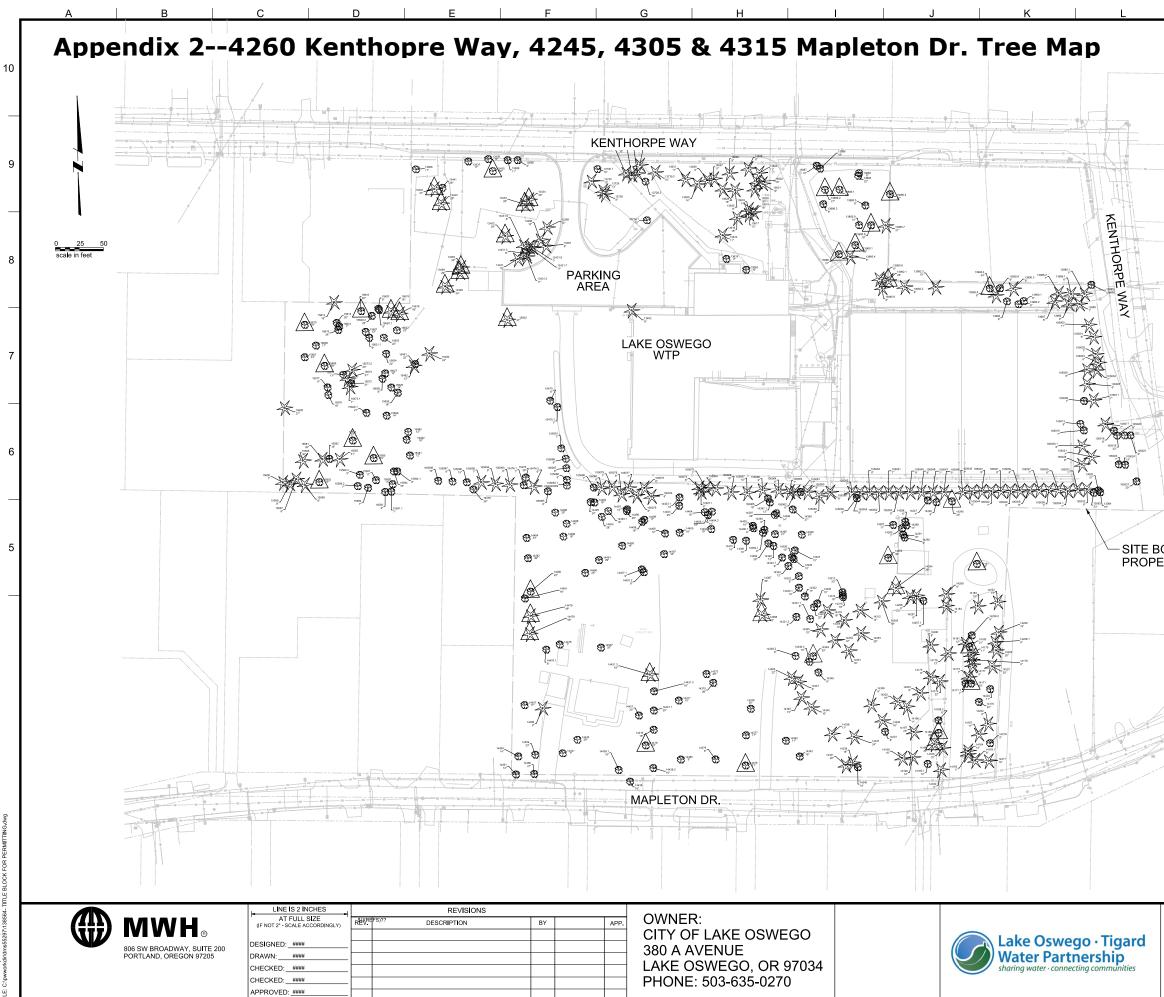
NO.	COMMON NAME	BOTANICAL NAME	DBH	HEIGHT	SPREAD	FORM	CROWN CLASS	AGE CLASS	TREE HEALTH	REGULATED	SIGNIFICANT	GROVE	COMMENTS
14202	Pine, White	Pinus monticola	19	40	35	Good	Co dominant	Mature	Fair	Yes		Yes	
14204	Shore Pine	Pinus contorta	9	25	20	Poor	Below canopy	Mature	Poor	No		Yes	Not 12".
14206	Hinoki Falsecypress	Chamaecyparis obtusa	8	20	10	Poor	Below canopy	Mature	Poor	No		No	Not 12".
14217	Spruce	Picea sp.	10	30	20	Fair	Co dominant	Semi-Mature	Fair	No		Yes	Not 12".
14218	Red Alder	Alnus rubra	9	25	20	Fair	Co dominant	Young	Good	No		Yes	Not 12".
14222	Douglas Fir	Pseudotsuga menziesii	6	20	12	Fair	Below canopy	Young	Fair	No		Yes	Not 12".
14224	European White Birch	Betula pendula	11	40	25	Fair	Co dominant	Mature	Poor	No		Yes	7" x 10' cavity from 6' to 16' above ground on W side. Not 12"
14227	Scotch Pine	Pinus sylvestris	20	40	30	Fair	Co dominant	Mature	Fair	Yes		Yes	High crown.
14228	Douglas Fir	Pseudotsuga menziesii	20	60	30	Fair	Dominant	Mature	Poor	Yes		Yes	
14228.1	Pine	Pine sp.	9	30	20	Poor	Co dominant	Mature	Poor	No		Yes	Suppressed. Not 12".
14228.2	European White Birch	Betula pendula	9	35	20	Poor	Co dominant	Semi-Mature	Poor	No		Yes	Leans S. Not 12"
14229	Western Red Cedar	Thuja plicata	19	30	20	Poor	Co dominant	Mature	Poor	Yes		Yes	Dead top. Root zone over filled.
14232	Spruce	Picea sp.	13	30	20	Fair	Co dominant	Mature	Fair	Yes		No	
14245	Oregon White Oak	Quercus garryana	20	45	35	Good	Dominant	Mature	Good	Yes		Yes	
14246	Black Cottonwood	Populus trichocarpa	8	30	20	Fair	Co dominant	Young	Fair	No		Yes	
14247	Black Cottonwood	Populus trichocarpa	7	30	20	Fair	Co dominant	Young	Fair	No		Yes	
14252	Oregon White Oak	Quercus garryana	30	55	40	Very Good	Dominant	Mature	Very Good	Yes	Yes	No	
14254	Giant Sequoia	Sequoiadendron giganteum	39	60	35	Good	Co dominant	Mature	Good	Yes	Yes	Yes	
14256	English Holly	Ilex aquifolium	6	20	16	Fair	Below canopy	Young	Fair	No		Yes	Not 12"
14257	English Holly	Ilex aquifolium	6	20	15	Fair	Below canopy	Young	Fair	No		Yes	Not field tagged. Not 12"
14257.1	English Holly	Ilex aquifolium	6	20	15	Fair	Below canopy	Young	Fair	No		Yes	Not field tagged. Not 12"
14259	Shore Pine	Pinus contorta	8	30	12	Fair	Below canopy	Mature	Fair	No		No	Not 12".
14287 14288	Willow Black Cattonwood	Salix sp.	11	40 35	35 15	Fair Fair	Below canopy	Young	Fair Fair	No No		Yes Yes	6 stems 5,5,5,4,4,4. Not 12" Not 12".
14288	Black Cottonwood Black Cottonwood	Populus trichocarpa Populus trichocarpa	6 11	45	25	Fair	Below canopy Below canopy	Young Young	Fair	No		Yes	Not 12 . Not 12".
14289	Black Cottonwood	Populus trichocarpa	7	35	15	Fair	Below canopy	Young	Fair	No		Yes	Not 12".
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14291 14292	Black Cottonwood	Populus trichocarpa	10 9	40 35	20 20	Fair	Below canopy	Young	Fair	No No		Yes	Not 12".
14292	Black Cottonwood	Populus trichocarpa Picea sp.	9 18	40	20	Fair Poor	Below canopy Co dominant	Young Mature	Fair Fair	Yes		Yes Yes	Not 12".
14303	Spruce Pacific Yew	Taxus brevifolia	14	20	30	Good	Below canopy	Mature	Good	Yes		Yes	
14312	Black Cottonwood	Populus trichocarpa	23	65	40	Fair	Co dominant	Young	Fair	Yes		Yes	
14314	Black Cottonwood	Populus trichocarpa	18	55	30	Fair	Co dominant	Young	Fair	Yes		Yes	2 stems 16,8.
14315	Black Cottonwood	Populus trichocarpa	19	50	30	Fair	Co dominant	Young	Fair	Yes		Yes	2 stems 15,11
14319	Spruce	Picea sp.	18	45	30	Good	Co dominant	Mature	Good	Yes		Yes	
14320	Willow	Salix sp.	10	45	30	Poor	Below canopy	Mature	Fair	No		Yes	2 stems 6,8. High crown. Not 12".
14321	Black Cottonwood	Populus trichocarpa	22	70	45	Good	Co dominant	Mature	Good	Yes		Yes	
14321.1	Cherry, Sweet	Prunus avium	6	30	20	Fair	Below canopy	Young	Fair	No		Yes	Fruit tree.
14321.3	Cherry, Sweet	Prunus avium	6	30	20	Fair	Below canopy	Young	Fair	No		Yes	Fruit tree.
14322	Bigleaf Maple	Acer macrophyllum	17	40	35	Fair	Co dominant	Mature	Fair	Yes		Yes	
14323	Oregon Ash	Fraxinus latifolia	9	35	20	Fair	Co dominant	Young	Fair	No		Yes	Not 12".
14323.1	Oregon Ash	Fraxinus latifolia	10	35	20	Fair	Co dominant	Young	Fair	No		Yes	Not 12".
14324	Oregon Ash	Fraxinus latifolia	12	50	30	Fair	Below canopy	Mature	Fair	Yes		Yes	
14324.1	Oregon Ash	Fraxinus latifolia	6	35	20	Poor	Below canopy	Young	Poor	No		Yes	Trunk cavity. Not 12"
14325	Oregon Ash	Fraxinus latifolia	15	60	30	Poor	Co dominant	Mature	Fair	Yes		Yes	2 stems 14,4. 4" stem is dead. Leans N.
14326	Oregon Ash	Fraxinus latifolia	13	55	30	Fair	Co dominant	Semi-Mature	Fair	Yes		Yes	
14327	Oregon Ash	Fraxinus latifolia	15	55	30	Poor	Below canopy	Over-mature	Very Poor	Yes		Yes	Broken top. 4" limb cavity at 6.5' above ground on E side.
14328	Oregon Ash	Fraxinus latifolia	24	70	40	Fair	Dominant	Mature	Fair	Yes		Yes	
14336	Spruce	Fraxinus latifolia	9	25	20	Fair	Below canopy	Young	Fair	No		Yes	
14337	Spruce	Picea	24	30	40	Good	Co dominant	Mature	Good	Yes		Yes	
14338	Pine, Ponderosa	Pinus ponderosa	17	40	30	Good	Dominant	Mature	Fair	Yes		No	
14339	Pine, Ponderosa	Pinus ponderosa	18	40	35	Poor	Co dominant	Mature	Fair	Yes		Yes	2 stores 10.0
14340	Hawthorn, English	Crataegus laevigata	14	25	30	Poor	Co dominant	Mature	Fair	Yes		Yes	2 stems 10,9.
14341 14342	Western Red Cedar	Thuja plicata Fraxinus latifolia	20 16	30 40	40 35	Poor Fair	Co dominant Below canopy	Mature Young	Fair Fair	Yes	ł	Yes	Topped. 4 stems 10.9.8.4.
14342	Oregon Ash Douglas Fir	Pseudotsuga menziesii	10	20	35 15	Fair Very Poor	Below canopy	Young	Very Poor	No		No	Broken top with cavity. Not 12"
14344		Fraxinus latifolia	10	50	40	Fair	Co dominant	Mature	Fair	Yes		Yes	5" x 7" cavity from 15' above ground to 22' above ground.
14345	Oregon Ash Hawthorn, Common	Craetagus monogyna	6	25	20	Poor	Below canopy	Young	Fair	No		Yes	Measured at 3' above ground. Not 12"
14347	Common Apple	Malus pumila	6	25	20	Fair	Below canopy	Mature	Fair	No		Yes	Not 12". Fruit Tree.
14348.2	Black Locust	Robinia pseudoacacia	9	20	20	Poor	Below canopy	Young	Fair	No		Yes	2 stems 6,6. Not 12"
14348.2	Black Locust	Robinia pseudoacacia Robinia pseudoacacia	10	25	20	Fair	Below canopy	Young	Fair	No		Yes	
14348.3	Oregon White Oak	Quercus garryana	30	60	50	Good	Dominant	Mature	Good	Yes	Yes	Yes	
14347	Gregori Write Odk	Quercus gari yarla	30	00	50	0000	Dominant	Mature	0000	163	103	163	

NO.	COMMON NAME	BOTANICAL NAME	DBH	HEIGHT	SPREAD	FORM	CROWN CLASS	AGE CLASS	TREE HEALTH	REGULATED	SIGNIFICANT	GROVE	COMMENTS
14351	Pine, Ponderosa	Pinus ponderosa	16	35	25	Fair	Co dominant	Mature	Fair	Yes		Yes	
14352	Pine, Ponderosa	Pinus ponderosa	12	45	20	Poor	Co dominant	Young	Fair	Yes		Yes	Crooked trunk. High crown.
14353	Deodar Cedar	Cedrus deodara	28	40	40	Good	Co dominant	Mature	Fair	Yes		Yes	
14354	Pine	Pine sp.	14	30	25	Fair	Co dominant	Mature	Fair	Yes		Yes	
14355	Spruce	Picea sp.	15	50	25	Fair	Co dominant	Mature	Fair	Yes		Yes	This secure 1 and and 5 milting
14362	Pear, Dwarf Fruiting	Pyrus communis	11	25 55	20 30	Fair	Below canopy	Mature	Poor	No		No	Thin crown. Leaf spot. Fruit tree.
14365 14366	Hinoki Falsecypress Western Red Cedar	Chamaecyparis obtusa Thuja plicata	22 42	55 80	30 40	Fair Fair	Co dominant Dominant	Mature Mature	Fair Good	Yes Yes	Yes	Yes Yes	
14366	Oregon Ash	Fraxinus latifolia	30	65	40	Poor	Dominant	Over-mature	Very Poor	Yes	res	Yes	2 stems 24,18. 4" diameter cavity at 3' above ground on S
14307	Red Alder	Alnus rubra	20	50	40	Good	Co dominant	Mature	Good	Yes		No	2 stems 24,10. 4 diameter cavity at 5 above ground on 5
14375	Oregon Ash	Fraxinus latifolia	26	50	50	Good	Dominant	Mature	Good	Yes		No	2 stems 19,18.
14376	Cherry, Fruiting	Prunus avium	20	30	35	Fair	Below canopy	Mature	Poor	No		No	Measured at 3' above ground. Fruit tree.
14377	Cherry, Fruiting	Prunus avium	17	40	40	Fair	Below canopy	Mature	Fair	No		No	Fruit tree.
14378	American Sweetgum	Liquidambar styraciflua	31	95	40	Fair	Dominant	Mature	Fair	Yes	Yes	No	
14379	Common Apple	Malus pumila	8	35	30	Fair	Below canopy	Mature	Fair	No		No	Measured at 3' above ground. Fruit tree.
14380	Common Apple	Malus pumila	9	25	25	Fair	Below canopy	Mature	Fair	No		No	Measured at 2.5' about ground.
14391	Oregon Ash	Fraxinus latifolia	14	55	30	Fair	Co dominant	Mature	Fair	Yes		Yes	2 stems 10,9.
14392	Oregon Ash	Fraxinus latifolia	28	85	55	Good	Dominant	Over-mature	Very Poor	Yes		Yes	Cavities in trunk from ground up.
14392.1	Hawthorn, Common	Crataegus monogyna	6	25	15	Very Poor	Below canopy	Over-mature	Very Poor	No		Yes	Dead top. Not 12".
14393	Oregon Ash	Fraxinus latifolia	13	55	30	Fair	Co dominant	Mature	Fair	Yes		Yes	
14395	Oregon Ash	Fraxinus latifolia	21	70	40	Poor	Co dominant	Over-mature	Very Poor	Yes		Yes	10" x 3.5' cavity from 4' to 7.5' above ground on N side.
14397	Oregon Ash	Fraxinus latifolia	22	80	55	Fair	Dominant	Over-mature	Poor	Yes		Yes	
14398 14397.1	Oregon Ash Oregon Ash	Fraxinus latifolia Fraxinus latifolia	29 12	80 55	55 25	Fair Fair	Dominant Balaw appapu	Over-mature Semi-Mature	Poor Fair	Yes Yes		Yes Yes	Die back in crown. History of large limb failure.
14397.1	Oregon Ash	Fraxinus latifolia	27	75	50	Poor	Below canopy Dominant	Over-mature	Very Poor	Yes		Yes	16" x60" cavity from ground on S side goes all the way
14399	Oregon Ash	FLAXILIUS IAULUIIA	21	/5	50	PUUI	Dominant	Over-mature	very Poor	res		res	through trunk.
14400	Hawthorn, Common	Crataegus monogyna	10	25	25	Poor	Below canopy	Mature	Very Poor	No		Yes	2 stems . Not 12"
14400.1	Common Hawthorn	crataegus monogyna	6	25	25	Poor	Below	Mature	Very Poor	Yes		163	2 316113 . NOT 12
14401	Oregon Ash	Fraxinus latifolia	15	55	30	Poor	Co dominant	Over-mature	Poor	Yes		Yes	3 stems 12,7,6. Thin crown. Stressed.
14402	Oregon Ash	Fraxinus latifolia	19	65	35	Good	Co dominant	Mature	Good	Yes		Yes	3 stems 17,7,4. 4" &7" stems have large cavities.
14403	Oregon Ash	Fraxinus latifolia	25	70	40	Poor	Dominant	Over-mature	Very Poor	Yes		Yes	2 stems 22,17. Broken tops on both stems. History of
	-												large limb failure.
14403.1	Oregon White Oak	Quercus garryana	18	65	45	Good	Dominant	Mature	Good	Yes		Yes	
14404	Oregon Ash	Fraxinus latifolia	15	65	35	Fair	Co dominant	Over-mature	Very Poor	Yes		Yes	18" x 12' cavity from ground on S side.
14404.1	Oregon Ash	Fraxinus latifolia	18	70	35	Fair	Co dominant	Over-mature	Very Poor	Yes		Yes	24" x 5' cavity from ground on N side.
14404.2	Oregon Ash	Fraxinus latifolia	14	55	30	Fair	Co dominant	Over-mature	Very Poor	Yes		Yes	10" x 24" cavity from ground on E side.
14405	Oregon Ash	Fraxinus latifolia	16	60	40	Fair	Co dominant	Mature	Poor	Yes		Yes	4 stems 8,7,11,4. 18 x 24" cavity from ground on E side.
14405.1	Hawthorn, Common	Crataegus monogyna	5	20	15	Poor	Below canopy	Mature	Fair	No		Yes	Not 12"
14406	Hawthorn, Common	Crataegus monogyna	12	40 45	20 35	Poor	Below canopy	Mature	Fair	Yes		Yes	Measured at 1' above ground.
14407 14407.1	Hawthorn, Common Oregon Ash	Crataegus monogyna Fraxinus latifolia	16 9	45	25	Fair Fair	Below canopy Below canopy	Mature Young	Fair Fair	Yes No		Yes Yes	Measured at 1' above ground. 2 stems 7,6. Located at 4245 Mapleton Dr. Not 12"
14407.1	Oregon Ash	Fraxinus latifolia	9	40	25	Poor	Below canopy	Young	Poor	No		Yes	3" x 10" cavity from ground on N side. Located at 4245
14407.2	Oregon Ash	riaxinus iatiitula	7	40	25	FUUI	below carlopy	roung	FUUI	NO		res	Mapleton Dr. Not 12"
14411	Sweet Cherry	Prunus avium	10	25	20	Fair	Below canopy	Young	Fair	No		No	2 stems 7,7.
14418	European White Birch	Betula pendula	19	65	40	Poor	Dominant	Mature	Poor	Yes	Yes	Yes	Thin crown.
14419	European White Birch	Betula pendula	15	65	40	Poor	Dominant	Mature	Poor	Yes		Yes	Thin crown.
14421	American Sweetgum	Liquidambar styraciflua	23	70	40	Good	Dominant	Mature	Good	Yes	_	Yes	
14421.1	European White Birch	Betula pendula	20	65	40	Fair	Dominant	Mature	Poor	Yes		Yes	
14421.2	European White Birch	Betula pendula	16	60	40	Fair	Dominant	Mature	Poor	Yes		Yes	
14421.3	Giant Sequoia	Sequoiadendron giganteum	43	80	40	Fair	Dominant	Mature	Good	Yes	Yes	No	2 stems 27,30
14435	American Elm	Ulmus americana	29	65	50	Poor	Dominant	Mature	Poor	Yes		Yes	Die back in crown. Suspect Dutch Elm disease.
14438	Oregon White Oak	Quercus garryana	18	25	30	Fair	Co dominant	Mature	Good	No		No	Off property in Mapleton R/W.
14438.1	Crapemyrtle	Lagerstroemia sp.	10	20	40	Good	Below canopy	Mature	Good	No		No	Measured at ground. Not 12"
14438.2	European White Birch	Betula pendula	16	40	30	Poor	Dominant	Mature	Poor	Yes		Yes	Thin crown.
14441	Japanese Maple	Acer palmatum	7	20	20	Good	Below canopy	Mature	Good	Yes		Yes	Measured at 1' above ground. Not 12".
14456 14457	Spruce	Picea sp.	9	30 30	25	Fair	Co dominant	Young	Fair Fair	No		Yes	Not 12"
14457	English Walnut Common Apple	Juglans regia Malus pumila	23	30	35 30	Fair Poor	Co dominant Co dominant	Mature Mature	Fair Fair	No		No Yes	Topped. Fruit Tree Topped. Fruit Tree
14459	Common Apple	Malus pumila Malus pumila	23	25	30	Poor	Below canopy	Mature	Poor	No		Yes	Topped. Fruit Tree
14460	Common Apple	Malus pumila Malus pumila	12	25	20	Poor	Below canopy	Mature	Poor	No		Yes	Topped. Fruit Tree
14463	Common Apple	Malus pumila	14	20	20	Poor	Below canopy	Mature	Poor	No		Yes	Topped. Fruit Tree
14405	Red Alder	Alnus rubra	7	30	20	Good	Co dominant	Semi-mature	Good	No		Yes	Not 12".
	nou muon	71110370010			20	0000	2.5 dominant		0000		•	100	Pres := :

NO.	COMMON NAME	BOTANICAL NAME	DBH	HEIGHT	SPREAD	FORM	CROWN CLASS	AGE CLASS	TREE HEALTH	REGULATED	SIGNIFICANT	GROVE	COMMENTS
14476.1	Oregon Ash	Fraxinus latifolia	8	35	20	Good	Below canopy	Young	Good	No		Yes	2 stems 6,6. Not 12"
14478	Giant Sequoia	Sequoiadendron giganteum	59	95	45	Good	Dominant	Mature	Good	Yes	Yes	Yes	
14479	Giant Sequoia	Sequoiadendron giganteum	49	110	50	Good	Dominant	Mature	Good	Yes	Yes	Yes	
14480	Oregon White Oak	Quercus garryana	22	55	30	Fair	Co dominant	Mature	Poor	Yes	Yes	Yes	3" x 14" cavity from 1' above ground on W side.
14481	Oregon Ash	Fraxinus latifolia	16	55	30	Fair	Co dominant	Mature	Fair	Yes		Yes	
14482	Oregon Ash	Fraxinus latifolia	39	75	35	Fair	Dominant	Mature	Fair	Yes		Yes	History of large limb failure.
14484	Oregon Ash		33	75	35	Fair	Dominant	Over-mature	Very Poor	Yes			12" limb cavity at 4' above ground on N side.
14486	Oregon Ash	Fraxinus latifolia	25	70	35	Fair	Co dominant	Over-mature	Very Poor	Yes		Yes	2 stems 22,12. 8"x24" cavity from ground on E side. Broken top. History of limb failure. Thin crown.
14488	Oregon Ash	Fraxinus latifolia	14	60	30	Very Poor	Below canopy	Over-mature	Very Poor	Yes		Yes	12" x 8' cavity from ground on N side.
14489	Oregon Ash	Fraxinus latifolia	18	65	35	Very Poor	Below canopy	Over-mature	Very Poor	Yes		Yes	Stem failure at 15' above ground.
14490	Oregon Ash	Fraxinus latifolia	25	25	20	Poor	Below canopy	Over-mature	Very Poor	Yes		Yes	Stem failures at 25' above ground.
14491	Oregon Ash	Fraxinus latifolia	29	80	40	Poor	Co dominant	Over-mature	Very Poor	Yes		Yes	4" x 24" cavity from ground on N side. 6" x 4' cavity at 40' above ground on S side.
14492	Oregon Ash	Fraxinus latifolia	19	70	35	Very Poor	Below canopy	Over-mature	Very Poor	Yes		Yes	24" x 8' cavity from ground on E. side.
14493	Oregon Ash	Fraxinus latifolia	28	70	40	Poor	Co dominant	Over-mature	Very Poor	Yes		Yes	3" x 16" cavity from ground on N side.
14493.1	Oregon Ash	Fraxinus latifolia	16	60	30	Very Poor	Co dominant	Over-mature	Very Poor	Yes		Yes	3" x 4.5' cavity from ground on S side. Highcrown.
14494	Oregon Ash	Fraxinus latifolia	19	70	35	Poor	Co dominant	Over-mature	Very Poor	Yes		Yes	2"x4" cavity at 2' above ground on N side.
14495	Oregon Ash	Fraxinus latifolia	20	75	4040	Poor	Co dominant	Over-mature	Very Poor	Yes		Yes	2" x 12" cavity from 1.5' above ground on E. side.
14496	Oregon Ash	Fraxinus latifolia	29	75	40	Poor	Co dominant	Over-mature	Very Poor	Yes		Yes	2 stems 23,17. 17" stem is hollow from ground'. One stem tagged 14497.
14498	Oregon Ash	Fraxinus latifolia	18	65	30	Very Poor	Co dominant	Over-mature	Very Poor	Yes		Yes	2 stems 17,18. Cavities. One stem tagged 14499.
14507	Crabapple	Malus sp.	25	25	35	Fair	Below canopy	Mature	Fair	No		No	4 stems 7,7,5,6.
15470	Black Cottonwood	Populus trichocarpa	6	25	15	Good	Below Canopy	Young	Good	No		Yes	
15470.1	Willow	Salix sp.	7	20	20	Fair	Single tree	Mature	Fair	No		Yes	2 stems 4,5.
15476	Oregon White Oak	Quercus garryana	26	90	50	Good	Dominant	Mature	Good	Yes		Yes	
15476.1	Douglas Fir	Pseudotsuga menziesii	7	25	15	Good	Below Canopy	Young	Good	No		Yes	
15476.2	Douglas Fir	Pseudotsuga menziesii	6	25	15	Poor	Below Canopy	Young	Poor	No		Yes	Partial uproot.
15478	Oregon Ash	Fraxinus latifolia	28	85	50	Poor	Dominant	Over-mature	Very Poor	Yes		Yes	12" cavity at 50' above ground.
15478.1	Douglas Fir	Pseudotsuga menziesii	4	25	15	Good	Below Canopy	Young	Good	No		Yes	
15481	Black Cottonwood	Populus trichocarpa	12	35	20	Poor	Single Tree	Mature	Very Poor	Yes		Yes	Broken top at 30' above ground.
15482	Red Alder	Alnus rubra	16	60	30	Poor	Co-dominant	Mature	Poor	Yes		Yes	Broken top.
15483	Red Alder	Alnus rubra	12	40	20	Poor	Co-dominant	Mature	Poor			Broken to	
15490	Western Red Cedar	Thuja plicata	24	30	15	Poor	Single Tree	Mature	Very Poor	Yes		Yes	Broken top at 30' above ground.
15491	Western Red Cedar	Thuja plicata	22	40	15	Poor	Single Tree	Mature	Very Poor	Yes		Yes	Broken top at 20' above ground.
15492	Western Red Cedar	Thuja plicata	12	35	15	Poor	Single Tree	Mature	Very Poor	Yes		Yes	Broken top at 20' above ground.
15502	Grand Fir	Abies grandis	37	40	20	Fair	Single Tree	Mature	Poor	Yes	Yes	Yes	Broken top.
15572	Bigleaf Maple	Acer macrophyllum	21	50	25	Poor	Co-dominant	Semi-mature	Poor	Yes		Yes	Broken top.
15573	Western Red Cedar	Thuja plicata	21	60	25	Good	Co-dominant	Semi-mature	Fair	Yes		Yes	
15573.1	Western Red Cedar	Thuja plicata	7	25	15	Fair	Below Canopy	Semi-mature	Fair	No		Yes	Corrected lean S.
15573.2	Western Red Cedar	Thuja plicata	20	20	15	Poor	Below Canopy	Semi-mature	Poor	Yes		Yes	Suppressed.
15574	Bigleaf Maple	Acer macrophyllum	17	50	25	Fair	Co-dominant	Semi-mature	Fair	Yes		Yes	
15576	Red Alder	Alnus rubra	18	60	30	Fair	Co-dominant	Mature	Fair	Yes		Yes	Bark inclusion in lower bole.
15577	Bigleaf Maple	Acer macrophyllum	8	35	20	Poor	Below Canopy	Semi-mature	Poor	No		Yes	Suppressed.
15581	Western Red Cedar	Thuja plicata	20 15	35 80	30 45	Very Poor	Below Canopy	Over-mature	Very Poor	Yes		Yes	Broken trunk is hollow.
15582 15583	Oregon Ash Western Red Cedar	Fraxinus latifolia Thuja plicata	31	80	45 50	Good Good	Dominant	Semi-mature Mature	Good	Yes Yes		Yes Yes	
			23	80 90		Fair	Dominant	Mature	Good Fair		Vac		
15584 15585	Bigleaf Maple Oregon Ash	Acer macrophyllum Fraxinus latifolia	23	90 80	60 45	Good	Dominant Dominant	Mature	Good	Yes Yes	Yes Yes	Yes Yes	
15585	Black Cottonwood	Populus trichocarpa	24 11	45	45 25	Fair	Co-dominant	Young	Fair	No	162	Yes	
15587	Oregon Ash	Fraxinus latifolia	7	45	25	Good	Co-dominant Co-dominant	Young	Good	No		Yes	
15589.2	Oregon Ash	Fraxinus latifolia	7	45	20	Good	Co-dominant Co-dominant	Young	Good	No		Yes	
15589.3	Oregon Ash	Fraxinus latifolia	9	45 50	20	Good	Co-dominant	Semi-mature	Good	No		Yes	
15569.3	Oregon Ash	Fraxinus latifolia	7	35	25	Fair	Co-dominant	Young	Fair	No		Yes	
15592	Black Cottonwood	Populus trichocarpa	11	40	25	Fair	Below Canopy	Young	Fair	No		Yes	
15593	Black Cottonwood	Populus trichocarpa	9	35	20	Fair	Co-dominant	Young	Fair	No		Yes	
15594	Bigleaf Maple	Acer macrophyllum	16	30	15	Very Poor	Below Canopy	Semi-mature	Very Poor	Yes		Yes	Broken top at 30' above ground.
15594.1	Bigleaf Maple	Acer macrophyllum	6	25	15	Poor	Below Canopy	Young	Poor	No		Yes	Broken top.
15595	Western Red Cedar	Thuja plicata	30	80	25	Good	Dominant	Mature	Good	Yes		Yes	broken top.
15597	Western Red Cedar	Thuja plicata	6	25	15	Good	Below Canopy	Young	Good	No		Yes	
15598	Western Red Cedar	Thuja plicata	6	25	15	Fair	Below Canopy	Young	Good	No		Yes	
15599	Western Red Cedar	Thuja plicata	8	25	15	Good	Below Canopy	Young	Good	No		Yes	
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15600	Western Red Cedar	Thuja plicata	7	25	15	Good	Below Canopy	Young	Good	No		Yes	
15602	Bigleaf Maple	Acer macrophyllum	17	70	35	Good	Dominant	Semi-mature	Good	Yes	Yes	Yes	
15605	Western Red Cedar	Thuja plicata	27	60	40	Fair	Co-dominant	Mature	Poor	Yes		Yes	Broken top. Severe cavities in lower bole.
15606	Bigleaf Maple	Acer macrophyllum	28	90	50	Fair	Dominant	Over-mature	Very Poor	Yes	Yes	Yes	24" x 36" cavity from ground on N. side.
15607	Bigleaf Maple	Acer macrophyllum	33	50	35	Very Poor	Co-dominant	Over-mature	Very Poor	Yes		Yes	Failed stem with cavity at 15' above ground.
15608	Red Alder	Alnus rubra	17			Dead				Yes		Yes	
15610	Bigleaf Maple	Acer macrophyllum	29	75	45	Fair	Dominant	Mature	Fair	Yes	Yes		
15612	Spruce	Picea sp.	16	40	30	Fair	Co-dominant	Mature	Poor	Yes		Yes	Broken top. Straddles property line.
15613	Bigleaf Maple	Acer macrophyllum	20	50	35	Fair	Co-dominant	Mature	Poor	Yes		Yes	1" x 8" cavity at 3' to3'-8" above ground on W. side.
15614	Bigleaf Maple	Acer macrophyllum	7	25	10	Fair	Co-dominant	Mature	Poor	No		Yes	Broken top.
15615	Bigleaf Maple	Acer macrophyllum	24	50	35	Poor	Co-dominant	Mature	Poor	Yes		Yes	Broken top.
15616	Bigleaf Maple	Acer macrophyllum	30	80	45	Good	Dominant	Mature	Good	Yes	Yes	Yes	
15618	Western Red Cedar	Thuja plicata	42	60	40	Good	Dominant	Mature	Good	Yes	Yes	Yes	
15619 15620	Western Red Cedar Bigleaf Maple	Thuja plicata	18 9	55 45	30 20	Good	Dominant	Semi-mature Mature	Good Poor	Yes No	Yes	Yes	Commenced
15620	Bigleaf Maple	Acer macrophyllum		45	15	Poor Poor	Below Canopy Below Canopy	Mature	Poor	No		Yes Yes	Suppressed. Suppressed.
15620.1	Bigleaf Maple	Acer macrophyllum	6 22	45 65	30		Co-dominant	Mature	Fair	Yes		Yes	Suppressed.
15620.2	Bigleaf Maple Bigleaf Maple	Acer macrophyllum Acer macrophyllum	12	65 50	20	Fair Fair	Co-dominant Co-dominant	Mature	Fair	Yes		Yes	1
15621.1	Bigleaf Maple	Acer macrophyllum Acer macrophyllum	9	50	20	Fair	Co-dominant Co-dominant	Mature	Fair	No		Yes	1
15621.1	Oregon Ash	Fraxinus latifolia	22	80	45	Fair	Dominant	Mature	Fair	Yes		Yes	
15622	Bigleaf Maple	Acer macrophyllum	22	70	45 50	Good	Dominant	Mature	Good	Yes		Yes	
15624	Bigleaf Maple	Acer macrophyllum	22	80	45	Good	Dominant	Mature	Good	Yes		Yes	
15625	Red Alder	Alnus rubra	14	30	20	Very Poor	Co-dominant	Mature	Very Poor	Yes		Yes	Broken top.
15626	Red Alder	Alnus rubra	18	30	20	Very Poor	Co-dominant	Mature	Very Poor	Yes		Yes	Broken top.
15627	Red Alder	Alnus rubra	14	50	30	Fair	Co-dominant	Semi-mature	Fair	Yes		Yes	broken tep.
15628	Red Alder	Alnus rubra	8	20	10	Very Poor	Below Canopy	Semi-mature	Very Poor	No		Yes	Broken top.
15629	Willow	Salix sp.	14	50	30	Fair	Co-dominant	Mature	Fair	Yes		Yes	
15629.1	Bigleaf Maple	Acer macrophyllum	21	45	20	Very Poor	Co-dominant	Mature	Very Poor	Yes		Yes	Broken top.
105000	Douglas Fir	Pseudotsuga menziesii	11	30	20	Good	Co-dominant	Young	Good	No		Yes	
105001	Douglas Fir	Pseudotsuga menziesii	6	25	15	Good	Co-dominant	Young	Good	No		Yes	
105002	Douglas Fir	Pseudotsuga menziesii	7	25	15	Good	Co-dominant	Young	Good	No		Yes	
105003	Douglas Fir	Pseudotsuga menziesii	6	25	15	Good	Co-dominant	Young	Good	No		Yes	
105004	Douglas Fir	Pseudotsuga menziesii	7	25	15	Good	Co-dominant	Young	Good	No		Yes	
105005	Douglas Fir	Pseudotsuga menziesii	8	25	15	Good	Co-dominant	Young	Good	No		Yes	
105006	Red Osier Dogwood	Cornus sericea	5	20	20	Good	Co-dominant	Young	Good	No		Yes	
105007	Douglas Fir	Pseudotsuga menziesii	6	25	15	Good	Co-dominant	Young	Good	No		Yes	
105009	Black Cottonwood	Populus trichocarpa	7	25	15	Good	Co-dominant	Young	Good	No		Yes	
105011	Douglas Fir	Pseudotsuga menziesii	7	25	15	Good	Co-dominant	Young	Good	No		Yes	
105013	Black Cottonwood	Populus trichocarpa	9	25	15	Good	Co-dominant	Young	Good	No		Yes	Lost top.
105015	Willow	Salix sp.	7	20	20	Fair	Below Canopy	Young	Fair	No		Yes	3 stems 3,4,4.
105017	Western Red Cedar	Thuja plicata	7	25	15	Good	Co-dominant	Young	Good	No		Yes	
105018	Bigleaf Maple	Acer macrophyllum	8	25	15	Good	Co-dominant	Young	Good	No		Yes	
105019	Oregon Ash	Fraxinus latifolia	32	70'	35	Fair	Dominant	Over-mature	Poor	Yes		Yes	Decay in lower bole.
105020	Sweet Cherry	Prunus avium	8	50	30	Fair	Co-dominant	Semi-mature	Fair	No		Yes	
105021 105023	Sweet Cherry Douglas Fir	Prunus avium	9 7	50 25	30 15	Fair Fair	Co-dominant	Semi-mature	Fair Poor	No No		Yes Yes	Girdled with staking wires.
	2	Pseudotsuga menziesii Fravinus latifalia	12	25 35	20		Co-dominant Below Capopy	Young		Yes		Yes	Birdied with staking wires. 18" x 12' cavity from ground on W side.
105024 105027	Oregon Ash Oregon Ash	Fraxinus latifolia Fraxinus latifolia	20	35 75	30	Very Poor Fair	Below Canopy Dominant	Over-mature Over-mature	Very Poor Very Poor	Yes		Yes	2 stems 12,16. 15" x 24" cavity from ground on W side.
105027	Western Red Cedar	Thuja plicata	20	30	30	Good	Co-dominant	Young	Good	No		Yes	2 stems 12,10. 15 x 24 cavity from ground on W. side.
105028	Western Red Cedar	Thuja plicata	о 8	25	15	Good	Co-dominant Co-dominant	Young	Good	No		Yes	
105030.1	Western Red Cedar	Thuja plicata	0 7	25	15	Good	Co-dominant Co-dominant	Young	Good	No		Yes	
105031	Douglas Fir	Pseudotsuga menziesii	6	25	15	Good	Co-dominant	Young	Good	No		Yes	
105032	Western Red Cedar	Thuja plicata	7	25	15	Good	Co-dominant	Young	Good	No		Yes	
105034.1	Western Red Cedar	Thuja plicata	7	25	15	Good	Co-dominant	Young	Good	No		Yes	
105035	Western Red Cedar	Thuja plicata	6	25	15	Good	Co-dominant	Young	Good	No		Yes	1
105036	Western Red Cedar	Thuja plicata	7	25	15	Good	Co-dominant	Young	Good	No		Yes	1
105030	Western Red Cedar	Thuja plicata	7	25	15	Good	Co-dominant	Young	Good	No		Yes	1
105038	Western Red Cedar	Thuja plicata	8	25	15	Good	Co-dominant	Young	Good	No	İ	Yes	
105039	Western Red Cedar	Thuja plicata	6	25	15	Good	Co-dominant	Young	Good	No		Yes	
105040	Western Red Cedar	Thuja plicata	9	25	15	Good	Co-dominant	Young	Good	No		Yes	
105041	Western Red Cedar	Thuja plicata	9	25	15	Good	Co-dominant	Young	Good	No		Yes	
105042	Western Red Cedar	Thuja plicata	7	20	15	Poor	Co-dominant	Young	Poor	No		Yes	Dead top.
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105043	Western Red Cedar	Thuja plicata	9	25	15	Good	Co-dominant	Young	Good	No		Yes	2 stems 7,5.
105044	Western Red Cedar	Thuja plicata	6	25	15	Good	Co-dominant	Young	Good	No		Yes	
105045	Western Red Cedar	Thuja plicata	7	20	15	Poor	Co-dominant	Young	Poor	No		Yes	Dead top.
105046	Western Red Cedar	Thuja plicata	7	20	15	Poor	Co-dominant	Young	Poor	No		Yes	Dead top.
105047	Western Red Cedar	Thuja plicata	7	20	15	Poor	Co-dominant	Young	Poor	No		Yes	Dead top.
105048	Western Red Cedar	Thuja plicata	8	20	15	Poor	Co-dominant	Young	Poor	No		Yes	Dead top.
105049	Western Red Cedar	Thuja plicata	9	25	15	Good	Co-dominant	Young	Good	No		Yes	2 stems 7,5.
105050	Western Red Cedar	Thuja plicata	9	25	15	Good	Co-dominant	Young	Good	No		Yes	
105051	Western Red Cedar	Thuja plicata	7	25	15	Poor	Co-dominant	Young	Poor	No		Yes	Thin crown.
105052	Western Red Cedar	Thuja plicata	7	25	15	Good	Co-dominant	Young	Good	No		Yes	
105053	Western Red Cedar	Thuja plicata	8	25	15	Good	Co-dominant	Young	Good	No		Yes	2 stems 5,6.
105054	Western Red Cedar	Thuja plicata	8	25	15	Good	Co-dominant	Young	Good	No		Yes	2 stems 4,7.
105055	Western Red Cedar	Thuja plicata	7	25	15	Good	Co-dominant	Young	Good	No		Yes	
105056	Common Hawthorn	Crataegus monogyna	8	25	15	Fair	Co-dominant	Mature	Fair	No		Yes	
105058	Western Red Cedar	Thuja plicata	9	25	15	Good	Co-dominant	Young	Good	No		Yes	
105059	Western Red Cedar	Thuja plicata	9	25	15	Good	Co-dominant	Young	Good	No		Yes	
105060	Western Red Cedar	Thuja plicata	8	25	15	Good	Below Canopy	Young	Good	No		Yes	
10561	Oregon Ash	Fraxinus latifolia	17	70	35	Fair	Dominant	Mature	Fair	Yes		Yes	
105062	Western Red Cedar	Thuja plicata	6	25	15	Good	Below Canopy	Young	Good	No		Yes	
105063	Western Red Cedar	Thuja plicata	7	25	15	Good	Below Canopy	Young	Good	No		Yes	
105064	Western Red Cedar	Thuja plicata	6	25	15	Good	Below Canopy	Young	Good	No		Yes	
105065	Oregon Ash	Fraxinus latifolia	18	70	30	Fair	Dominant	Mature	Fair	Yes		Yes	
105066	Western Red Cedar	Thuja plicata	9	25	15	Good	Below Canopy	Young	Good	No		Yes	
105067	Western Red Cedar	Thuja plicata	10	25	15	Good	Below Canopy	Young	Good	No		Yes	
105068	Western Red Cedar	Thuja plicata	10	25	15	Good	Below Canopy	Young	Good	No		Yes	
105069	Western Red Cedar	Thuja plicata	8	25	15	Good	Below Canopy	Young	Good	No		Yes	
105070	Western Red Cedar	Thuja plicata	7	25	15	Good	Below Canopy	Young	Good	No		Yes	2 stems 6,3.
105071	Western Red Cedar	Thuja plicata	8	25	15	Good	Below Canopy	Young	Good	No		Yes	
105073	Western Red Cedar	Thuja plicata	6	25	15	Good	Below Canopy	Young	Good	No		Yes	
105074	Western Red Cedar	Thuja plicata	6	25	15	Good	Below Canopy	Young	Good	No		Yes	
105075	Western Red Cedar	Thuja plicata	6	25	15	Good	Below Canopy	Young	Good	No		Yes	
105076	Western Red Cedar	Thuja plicata	8	25	15	Good	Below Canopy	Young	Good	No		Yes	2 stems 7,3.
105077	Western Red Cedar	Thuja plicata	7	25	15	Good	Below Canopy	Young	Good	No		Yes	3 stems 5,3,3.
105078	Western Red Cedar	Thuja plicata	8	25	15	Good	Below Canopy	Young	Good	No		Yes	
105079	Western Red Cedar	Thuja plicata	7	25	15	Poor	Below Canopy	Young	Poor	No		Yes	Thin crown.
105080	Western Red Cedar	Thuja plicata	7	25	15	Good	Below Canopy	Young	Good	No		Yes	
105081	Western Red Cedar	Thuja plicata	6	25	15	Good	Below Canopy	Young	Good	No		Yes	
105084.1	Western Red Cedar	Thuja plicata	6	25	15	Good	Below Canopy	Young	Good	No		Yes	
105085	Western Red Cedar	Thuja plicata	9	25	15	Good	Below Canopy	Young	Good	No		Yes	
105086	Willow	Salix sp.	9	30	30	Fair	Below Canopy	Semi-mature	Fair	No		Yes	
105087	Red Alder	Alnus rubra	6	25	15	Good	Below Canopy	Young	Good	No		Yes	
105088	Red Alder	Alnus rubra	6	25	15	Good	Below Canopy	Young	Good	No		Yes	
105091	Red Alder	Alnus rubra	7	25	15	Good	Below Canopy	Young	Good	No		Yes	
105093	Douglas Fir	Pseudotsuga menziesii	8	25	15	Good	Below Canopy	Young	Good	No		Yes	
105094	Douglas Fir	Pseudotsuga menziesii	8	25	15	Good	Below Canopy	Young	Good	No		Yes	
105095	Douglas Fir	Pseudotsuga menziesii	7	25	15	Good	Below Canopy	Young	Good	No		Yes	
105096	Western Red Cedar	Thuja plicata	15	40	25	Good	Below Canopy	Young	Good	Yes		Yes	
105097	Western Red Cedar	Thuja plicata	8	25	15	Good	Below Canopy	Young	Good	No		Yes	
105098	Western Red Cedar	Thuja plicata	15	40	25	Good	Below Canopy	Young	Good	Yes		Yes	



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Appendix 3--4260 Kenthorpe Way, 4245, 4305 & 4315 Mapleton Dr. Regulated Trees

NO.	COMMON NAME	BOTANICAL NAME	DBH	HEIGHT	SPREAD	FORM	CROWN CLASS	AGE CLASS	TREE HEALTH	REGULATED	SIGNIFICANT	GROVE	COMMENTS
13082	Black Cottonwood	Populus trichocarpa	21	80	40	Fair	Dominant	Mature	Poor	Yes		Yes	6" x 24" cavity from ground on N. side.
13083	Black Cottonwood	Populus trichocarpa	23	90	45	Fair	Fair	Mature	Fair	Yes		Yes	
13084	Black Cottonwood	Populus trichocarpa	16	80	40	Fair	Dominant	Mature	Fair	Yes		Yes	
13388	Western Red Cedar	Thuja plicata	15	30	30	Good	Below Canopy	Young	Good	Yes		Yes	6 stems 10,6,6,7,3,3.
13389	Western Red Cedar	Thuja plicata	12	30	20	Good	Below Canopy	Young	Good	Yes		Yes	
13429	Western Red Cedar	Thuja plicata	24	35	20	Fair	Co-dominant	Mature	Very Poor	Yes	Yes	Yes	24" x 20' cavity from ground on S. side.
13432	Western Red Cedar	Thuja plicata	39	40	25	Good	Co-dominant	Semi-mature	Good	Yes	Yes	Yes	
13433	Western Red Cedar	Thuja plicata	29	40	30	Good	Co-dominant	Mature	Poor	Yes	Yes	Yes	7" x 6' cavity from ground on W. side.
13434	Western Red Cedar	Thuja plicata	29	40	30	Good	Co-dominant	Mature	Poor	Yes	Yes	Yes	6" x 20' cavity from ground on W. side.
13435	Bigleaf Maple	Acer macrophyllum	39	70	40	Good	Dominant	Mature	Good	Yes	Yes	Yes	2 stems 26,29.
13441	Bigleaf Maple	Acer macrophyllum	26	70	40	Fair	Co-dominant	Over-mature	Very Poor	Yes		Yes	3' x 3' cavity with bark inclusion from ground on W. side.
13442	Western Red Cedar	Thuja plicata	31	80	30	Good	Dominant	Mature	Good	Yes		Yes	
13443	Grand Fir	Abies grandis	28	80	20	Fair	Co-dominant	Over-mature	Poor	Yes		Yes	4" x 24" cavity from ground on W. side.
13463	Grand Fir	Abies grandis	30	60	25	Fair	Co-dominant	Mature	Poor	Yes	Yes	Yes	Thin crown.
13464	Grand Fir	Abies grandis	29	60	25	Fair	Co-dominant	Mature	Fair	Yes	Yes	Yes	
13616	Western Red Cedar	Thuja plicata	15	30	25	Good	Co-dominant	Young	Good	Yes		Yes	3 stems 8,7,10.
13617	Western Red Cedar	Thuja plicata	13	45	20	Good	Dominant	Semi-mature	Good	Yes		Yes	2 stems 10,8.
13618	Blue Atlas Cedar	Cedrus atlantica 'Glauca'	14	50	25	Good	Dominant	Semi-mature	Good	Yes		Yes	
13619	Deodar Cedar	Cedrus deodara	18	60	30	Good	Dominant	Semi-mature	Good	Yes		Yes	
13620	Deodar Cedar	Cedrus deodara	19	50	25	Good	Dominant	Semi-mature	Good	Yes		Yes	
13628	Deodar Cedar	Cedrus deodara	15	45	20	Good	Co-dominant	Young	Good	Yes		Yes	
13630	Deodar Cedar	Cedrus deodara	14	40	20	Good	Co-dominant	Young	Good	Yes		Yes	
13658	Bigleaf Maple	Acer macrophyllum	17	30	30	Good	Below Canopy	Young	Good	No		Yes	8 stems 8,5,8,5,6,7,4,4
13728.3	Oregon White Oak	Quercus garryana	14	25	25	Fair	Co-dominant	Young	Good	Yes		Yes	0 1 5 40 7
13729	Western Red Cedar	Thuja plicata	13	35	20	Fair	Co-dominant	Young	Good	Yes		Yes	3 stems 5,10,7.
13730	Western Red Cedar	Thuja plicata	13	35	20	Fair	Co-dominant	Young	Good	Yes		Yes	2 stems 7,12.
13885	Oregon Ash	Fraxinus latifolia	22	80 90	40	Fair	Dominant	Mature Mature	Fair Good	Yes	N	Yes	
13885.2 13885.4	Oregon Ash	Fraxinus latifolia	27		50	Good	Dominant			Yes	Yes	Yes	(II.) 10
13885.4	Oregon Ash Western Red Cedar	Fraxinus latifolia Thuja plicata	21 21	80 60	40 25	Fair Good	Co-dominant Co-dominant	Over-mature Mature	Very Poor Good	Yes Yes		Yes Yes	6" x 10' cavity from ground on N. side.
13885.8	Oregon Ash	Fraxinus latifolia	19	70	40	Fair	Co-dominant Co-dominant	Mature	Fair	Yes		Yes	Bark inclusion in lower bole.
13885.9	Oregon Ash	Fraxinus latifolia	13	70	30	Fair	Co-dominant Co-dominant	Mature	Fair	Yes		Yes	Higher crown.
13886	Willow	Salix sp.	19	30	20	Poor	Below Canopy	Mature	Very Poor	Yes		Yes	4 stems 12,6,11,8. Severe cavities & decay all stems.
13886.1	Oregon White Oak	Quercus garryana	19	70	30	Fair	Co-dominant	Semi-mature	Fair	Yes	Yes	Yes	2 stems 10,15.
13960	Norway Maple	Acer platanoides	21	45	30	Good	Co-dominant Co-dominant	Mature	Fair	Yes	165	Yes	3" x 3' cavity from ground on S. side.
13960.1	Oregon Ash	Fraxinus latifolia	18	70	50	Fair	Dominant	Mature	Good	Yes	Yes	Yes	3 stems 13,11,7.
13992.1	Western Red Cedar	Thuja plicata	25	40'	40'	Fair	Co-dominant	Semi-mature	Poor	Yes	Yes	Yes	Topped.
13992.4	Oregon White Oak	Quercus garryana	34	90	60	Good	Dominant	Mature	Good	Yes	Yes	Yes	3 stems 27,15,15.
14164	Spruce	Picea sp.	14	40	35	Fair	Co dominant	Semi-Mature	Good	Yes	Tes	Yes	5 Stellis 27, 15, 15.
14166	Giant Seguoia	Sequoiadendron giganteum	30	50	35	Good	Dominant	Mature	Good	Yes	Yes	Yes	
14167	Scotch Pine	Pinus sylvestris	17	40	30	Fair	Co dominant	Mature	Fair	Yes	103	Yes	
14168	Red Oak	Quercus rubra	25	55	50	Good	Dominant	Mature	Good	Yes	Yes	Yes	
14171	London Planetree	Platanus × acerifolia	30	50	50	Fair	Dominant	Mature	Fair	Yes	Yes	Yes	2" x 6" cavity at ground on E side.
14174	Douglas Fir	Pseudotsuga menziesii	22	55	30	Good	Dominant	Mature	Good	Yes	.03	Yes	
14176	Shore Pine	Pinus contorta	13	40	25	Poor	Below canopy	Mature	Poor	Yes		Yes	Old broken top.
14180	Oregon White Oak	Quercus garryana	21	50	45	Good	Dominant	Mature	Good	Yes		Yes	
14180	Douglas Fir	Pseudotsuga menziesii	12	35	20	Fair	Below canopy	Semi-Mature	Fair	Yes	Yes	Yes	
14181	Oregon White Oak	Quercus garrvana	28	45	45	Good	Dominant	Mature	Good	Yes	Yes	No	
14191	Spruce	Picea sp.	28	45	45 30	Good	Co dominant	Mature	Good	Yes	162	Yes	1
14197	Scotch Pine	Picea sp. Pinus sylvestris	14	30	20	Poor	Co dominant	Mature	Poor	Yes		Yes	Thin crown.
14198	Oregon Ash	Fraxinus latifolia	14	65	30	Very Poor	Co dominant	Over-mature	Very Poor	Yes		Yes	Stem failure at 30' above ground.
14199	Spruce	Picea sp.	15	45	25	Poor	Co dominant	Mature	Fair	Yes		Yes	stem ranare at 50 above ground.
14199	Pine, Ponderosa	Pinus ponderosa	16	45	35	Fair	Co dominant	Mature	Poor	Yes		Yes	Thin crown.
14200	Pine, White	Pinus monticola	19	40	35	Good	Co dominant	Mature	Fair	Yes		Yes	
14202	Black Cottonwood	Populus trichocarpa	18	65	35	Fair	Dominant	Mature	Good	No		Yes	Off property.
14217	Scotch Pine	Pinus sylvestris	20	40	30	Fair	Co dominant	Mature	Fair	Yes		Yes	High crown.
14228	Douglas Fir	Pseudotsuga menziesii	20	60	30	Fair	Dominant	Mature	Poor	Yes		Yes	
14229	Western Red Cedar	Thuja plicata	19	30	20	Poor	Co dominant	Mature	Poor	Yes		Yes	Dead top. Root zone over filled.
14232	Spruce	Picea sp.	13	30	20	Fair	Co dominant	Mature	Fair	Yes		No	
14232	Oregon White Oak	Quercus garryana	20	45	35	Good	Dominant	Mature	Good	Yes		Yes	
14243	oregon white Oak	Quercus garryarla	20	40	55	0000	Dominant	ivia tui e	0000	163		163	
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NO.	COMMON NAME	BOTANICAL NAME	DBH	HEIGHT	SPREAD	FORM	CROWN CLASS	AGE CLASS	TREE HEALTH	REGULATED	SIGNIFICANT	GROVE	COMMENTS
14252	Oregon White Oak	Quercus garryana	30	55	40	Very Good	Dominant	Mature	Very Good	Yes		No	
14254	Giant Sequoia	Sequoiadendron giganteum	39	60	35	Good	Co dominant	Mature	Good	Yes		Yes	
14305	Spruce	Picea sp.	18	40	25	Poor	Co dominant	Mature	Fair	Yes		Yes	
14312	Pacific Yew	Taxus brevifolia	14	20	30	Good	Below canopy	Mature	Good	Yes		Yes	
14313	Black Cottonwood	Populus trichocarpa	23	65	40	Fair	Co dominant	Young	Fair	Yes		Yes	
14314	Black Cottonwood	Populus trichocarpa	18	55	30	Fair	Co dominant	Young	Fair	Yes		Yes	2 stems 16,8.
14315	Black Cottonwood	Populus trichocarpa	19	50	30	Fair	Co dominant	Young	Fair	Yes		Yes	2 stems 15,11
14319	Spruce	Picea sp.	18	45	30	Good	Co dominant	Mature	Good	Yes		Yes	
14321	Black Cottonwood	Populus trichocarpa	22	70	45	Good	Co dominant	Mature	Good	Yes		Yes	
14322	Bigleaf Maple	Acer macrophyllum	17	40	35	Fair	Co dominant	Mature	Fair	Yes		Yes	
14324	Oregon Ash	Fraxinus latifolia	12	50	30	Fair	Below canopy	Mature	Fair	Yes		Yes	
14325	Oregon Ash	Fraxinus latifolia	15	60	30	Poor	Co dominant	Mature	Fair	Yes		Yes	2 stems 14,4. 4" stem is dead. Leans N.
14326	Oregon Ash	Fraxinus latifolia	13	55	30	Fair	Co dominant	Semi-Mature	Fair	Yes		Yes	
14327	Oregon Ash	Fraxinus latifolia	15	55	30	Poor	Below canopy	Over-mature	Very Poor	Yes		Yes	Broken top. 4" limb cavity at 6.5' above ground on E side.
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14328	Oregon Ash	Fraxinus latifolia	24	70	40	Fair	Dominant	Mature	Fair	Yes		Yes	
14337	Spruce	Picea	24	30	40	Good	Co dominant	Mature	Good	Yes		Yes	
14338	Pine, Ponderosa	Pinus ponderosa	17	40	30	Good	Dominant	Mature	Fair	Yes		No	
14339	Pine, Ponderosa	Pinus ponderosa	18	40	35	Poor	Co dominant	Mature	Fair	Yes		Yes	
14337	Hawthorn, English	Crataegus laevigata	14	25	30	Poor	Co dominant	Mature	Fair	Yes		Yes	2 stems 10,9.
14340	Western Red Cedar	Thuja plicata	20	30	40	Poor	Co dominant	Mature	Fair	Yes		Yes	Topped.
14342	Oregon Ash	Fraxinus latifolia	16	40	35	Fair	Below canopy	Young	Fair	Yes		No	4 stems 10,9,8,4.
14342	Oregon Ash	Fraxinus latifolia	15	50	40	Fair	Co dominant	Mature	Fair	Yes		Yes	5" x 7" cavity from 15' above ground to 22' above ground.
14343	Oregon Ash	Fraxinus latitulia	15	- 50	40	Fall	CO dominant	wature	Fall	Tes		Tes	5 x 7 cavity from 15 above ground to 22 above ground.
14349	Oregon White Oak	Quercus garryana	30	60	50	Good	Dominant	Mature	Good	Yes		Yes	
14347	Pine, Ponderosa	Pinus ponderosa	16	35	25	Fair	Co dominant	Mature	Fair	Yes		Yes	
14351	Pine, Ponderosa Pine, Ponderosa		10	45	25	Poor	Co dominant	Young	Fair	Yes		Yes	Concluded to the line of the second
		Pinus ponderosa		45									Crooked trunk. High crown.
14353	Deodar Cedar	Cedrus deodara	28		40	Good	Co dominant	Mature	Fair	Yes		Yes	
14354	Pine	Pine sp.	14	30 50	25 25	Fair	Co dominant	Mature	Fair	Yes		Yes	
14355 14365	Spruce	Picea sp.	15 22	50	25	Fair	Co dominant	Mature	Fair Fair	Yes		Yes Yes	
	Hinoki Falsecypress	Chamaecyparis obtusa				Fair	Co dominant	Mature		Yes			
14366	Western Red Cedar	Thuja plicata	42	80	40	Fair	Dominant	Mature	Good	Yes		Yes	
14367	Oregon Ash	Fraxinus latifolia	30	65	45	Poor	Dominant	Over-mature	Very Poor	Yes		Yes	2 stems 24,18. 4" diameter cavity at 3' above ground on S side. 2" x 12" cavity at 30' above ground on S side. Bark inclisions with excessive end weight. History of large limb failure.
14373	Red Alder	Alnus rubra	20	50	40	Good	Co dominant	Mature	Good	Yes		No	
14375	Oregon Ash	Fraxinus latifolia	26	50	50	Good	Dominant	Mature	Good	Yes		No	2 stems 19,18.
14378	American Sweetgum	Liquidambar styraciflua	31	95	40	Fair	Dominant	Mature	Fair	Yes	Yes	No	
14391	Oregon Ash	Fraxinus latifolia	14	55	30	Fair	Co dominant	Mature	Fair	Yes		Yes	2 stems 10,9.
14392	Oregon Ash	Fraxinus latifolia	28	85	55	Good	Dominant	Over-mature	Very Poor	Yes		Yes	Cavities in trunk from ground up.
14393	Oregon Ash	Fraxinus latifolia	13	55	30	Fair	Co dominant	Mature	Fair	Yes		Yes	
14395	Oregon Ash	Fraxinus latifolia	21	70	40	Poor	Co dominant	Over-mature	Very Poor	Yes		Yes	10" x 3.5' cavity from 4' to 7.5' above ground on N side.
14397	Oregon Ash	Fraxinus latifolia	22	80	55	Fair	Dominant	Over-mature	Poor	Yes		Yes	
14397.1	Oregon Ash	Fraxinus latifolia	12	55	25	Fair	Below canopy	Semi-Mature	Fair	Yes		Yes	
14398	Oregon Ash	Fraxinus latifolia	29	80	55	Fair	Dominant	Over-mature	Poor	Yes		Yes	Die back in crown. History of large limb failure.
14399	Oregon Ash	Fraxinus latifolia	27	75	50	Poor	Dominant	Over-mature	Very Poor	Yes		Yes	16" x60" cavity from ground on S side goes all the way through trunk.
14401	Oregon Ash	Fraxinus latifolia	15	55	30	Poor	Co dominant	Over-mature	Poor	Yes		Yes	3 stems 12,7,6. Thin crown. Stressed.
14402	Oregon Ash	Fraxinus latifolia	19	65	35	Good	Co dominant	Mature	Good	Yes	i	Yes	3 stems 17,7,4. 4" &7" stems have large cavities.
14403	Oregon Ash	Fraxinus latifolia	25	70	40	Poor	Dominant	Over-mature	Very Poor	Yes		Yes	2 stems 22,17. Broken tops on both stems. History of large limb failure.
14403.1	Oregon White Oak	Quercus garryana	18	65	45	Good	Dominant	Mature	Good	Yes		Yes	
14404	Oregon Ash	Fraxinus latifolia	15	65	35	Fair	Co dominant	Over-mature	Very Poor	Yes		Yes	18" x 12' cavity from ground on S side.
14404.1	Oregon Ash	Fraxinus latifolia	18	70	35	Fair	Co dominant	Over-mature	Very Poor	Yes		Yes	24" x 5' cavity from ground on N side.
14404.1	Oregon Ash	Fraxinus latifolia	14	55	30	Fair	Co dominant	Over-mature	Very Poor	Yes		Yes	10" x 24" cavity from ground on E side.
14404.2	Oregon Ash	Fraxinus latifolia	14	60	40	Fair	Co dominant	Mature	Poor	Yes		Yes	4 stems 8,7,11,4. 18 x 24" cavity from ground on E side.
14405	Hawthorn, Common	Crataegus monogyna	10	40	20	Poor	Below canopy	Mature	Fair	Yes		Yes	A stems 8,7,11,4. 18 x 24 cavity from ground on E side. Measured at 1' above ground.
14406	Hawthorn, Common	Crataegus monogyna Crataegus monogyna	12	40	20	Fair	Below canopy	Mature	Fair	Yes		Yes	Measured at 1 above ground. Measured at 1' above ground.
14407	European White Birch	Betula pendula	16	45 65	35 40	Poor		Mature		Yes	Yes	Yes	
14418	European white Birch	вециа репоціа	19	CO.	40	1004	Dominant	wature	Poor	res	res	res	Thin crown.
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NO.	COMMON NAME	BOTANICAL NAME	DBH	HEIGHT	SPREAD	FORM	CROWN CLASS	AGE CLASS	TREE HEALTH	REGULATED	SIGNIFICANT	GROVE	COMMENTS
14419	European White Birch	Betula pendula	15	65	40	Poor	Dominant	Mature	Poor	Yes		Yes	Thin crown.
14421	American Sweetgum	Liquidambar styraciflua	23	70	40	Good	Dominant	Mature	Good	Yes		Yes	
14421.1	European White Birch	Betula pendula	20	65	40	Fair	Dominant	Mature	Poor	Yes		Yes	
14421.2	European White Birch	Betula pendula	16	60	40	Fair	Dominant	Mature	Poor	Yes		Yes	
14421.3	Giant Sequoia	Sequoiadendron giganteum	43	80	40	Fair	Dominant	Mature	Good	Yes	Yes	No	2 stems 27,30
14435	American Elm	Ulmus americana	29	65	50	Poor	Dominant	Mature	Poor	Yes		Yes	Die back in crown. Suspect Dutch Elm disease.
14438	Oregon White Oak	Quercus garryana	18	25	30	Fair	Co dominant	Mature	Good	No		No	Off property in Mapleton R/W.
14438.2	European White Birch	Betula pendula	16	40	30	Poor	Dominant	Mature	Poor	Yes		Yes	Thin crown.
14478	Giant Sequoia	Sequoiadendron giganteum	59	95	45	Good	Dominant	Mature	Good	Yes		Yes	
14479	Giant Sequoia	Sequoiadendron giganteum	49	110	50	Good	Dominant	Mature	Good	Yes		Yes	
14480	Oregon White Oak	Quercus garryana	22	55	30	Fair	Co dominant	Mature	Poor	Yes	Yes	Yes	3" x 14" cavity from 1' above ground on W side.
14481	Oregon Ash	Fraxinus latifolia	16	55	30	Fair	Co dominant	Mature	Fair	Yes		Yes	
14482	Oregon Ash	Fraxinus latifolia	39	75	35	Fair	Dominant	Mature	Fair	Yes		Yes	History of large limb failure.
14484	Oregon Ash		33	75	35	Fair	Dominant	Over-mature	Very Poor	Yes			12" limb cavity at 4' above ground on N side.
14486	Oregon Ash	Fraxinus latifolia	25	70	35	Fair	Co dominant	Over-mature	Very Poor	Yes		Yes	2 stems 22,12. 8"x24" cavity from ground on E side. Broken top. History of limb failure. Thin crown.
14488	Oregon Ash	Fraxinus latifolia	14	60	30	Very Poor	Below canopy	Over-mature	Very Poor	Yes		Yes	12" x 8' cavity from ground on N side.
14489	Oregon Ash	Fraxinus latifolia	18	65	35	Very Poor	Below canopy	Over-mature	Very Poor	Yes		Yes	Stem failure at 15' above ground.
14490	Oregon Ash	Fraxinus latifolia	25	25	20	Poor	Below canopy	Over-mature	Very Poor	Yes		Yes	Stem failures at 25' above ground.
14491	Oregon Ash	Fraxinus latifolia	29	80	40	Poor	Co dominant	Over-mature	Very Poor	Yes		Yes	4" x 24" cavity from ground on N side. 6" x 4' cavity at 40' above ground on S side.
14492	Oregon Ash	Fraxinus latifolia	19	70	35	Very Poor	Below canopy	Over-mature	Very Poor	Yes		Yes	24" x 8' cavity from ground on E. side.
14493	Oregon Ash	Fraxinus latifolia	28	70	40	Poor	Co dominant	Over-mature	Very Poor	Yes		Yes	3" x 16" cavity from ground on N side.
14493.1	Oregon Ash	Fraxinus latifolia	16	60	30	Very Poor	Co dominant	Over-mature	Very Poor	Yes		Yes	3" x 4.5' cavity from ground on S side. Highcrown.
14494	Oregon Ash	Fraxinus latifolia	19	70	35	Poor	Co dominant	Over-mature	Very Poor	Yes		Yes	2"x4" cavity at 2' above ground on N side.
14495	Oregon Ash	Fraxinus latifolia	20	75	4040	Poor	Co dominant	Over-mature	Very Poor	Yes		Yes	2" x 12" cavity from 1.5' above ground on E. side.
14496	Oregon Ash	Fraxinus latifolia	29	75	40	Poor	Co dominant	Over-mature	Very Poor	Yes		Yes	2 stems 23,17. 17" stem is hollow from ground'.
14498	Oregon Ash	Fraxinus latifolia	18	65	30	Very Poor	Co dominant	Over-mature	Very Poor	Yes		Yes	Cavities.
14507	Crabapple	Malus sp.	25	25	35	Fair	Below canopy	Mature	Fair	No		No	4 stems 7,7,5,6.
15476	Oregon White Oak	Quercus garryana	26	90	50	Good	Dominant	Mature	Good	Yes		Yes	
15478	Oregon Ash	Fraxinus latifolia	28	85	50	Poor	Dominant	Over-mature	Very Poor	Yes		Yes	12" cavity at 50' above ground.
15481	Black Cottonwood	Populus trichocarpa	12	35	20	Poor	Single Tree	Mature	Very Poor	Yes		Yes	Broken top at 30' above ground.
15482	Red Alder	Alnus rubra	16	60	30	Poor	Co-dominant	Mature	Poor	Yes		Yes	Broken top.
15483	Red Alder	Alnus rubra	12	40	20	Poor	Co-dominant	Mature	Poor			Broken top.	
15490	Western Red Cedar	Thuja plicata	24	30	15	Poor	Single Tree	Mature	Very Poor	Yes		Yes	Broken top at 30' above ground.
15491	Western Red Cedar	Thuja plicata	22	40	15	Poor	Single Tree	Mature	Very Poor	Yes		Yes	Broken top at 20' above ground.
15492	Western Red Cedar	Thuja plicata	12	35	15	Poor	Single Tree	Mature	Very Poor	Yes		Yes	Broken top at 20' above ground.
15502	Grand Fir	Abies grandis	37	40	20	Fair	Single Tree	Mature	Poor	Yes	Yes	Yes	Broken top.
15572	Bigleaf Maple	Acer macrophyllum	21	50	25	Poor	Co-dominant	Semi-mature	Poor	Yes		Yes	Broken top.
15573	Western Red Cedar	Thuja plicata	21	60	25	Good	Co-dominant	Semi-mature	Fair	Yes		Yes	
15573.2	Western Red Cedar	Thuja plicata	20	20	15	Poor	Below Canopy	Semi-mature	Poor	Yes		Yes	Suppressed.
15574	Bigleaf Maple	Acer macrophyllum	17	50	25	Fair	Co-dominant	Semi-mature	Fair	Yes		Yes	
15576	Red Alder	Alnus rubra	18	60	30	Fair	Co-dominant	Mature	Fair	Yes		Yes	Bark inclusion in lower bole.
15581	Western Red Cedar	Thuja plicata	20	35	30	Very Poor	Below Canopy	Over-mature	Very Poor	Yes		Yes	Broken trunk is hollow.
15582	Oregon Ash	Fraxinus latifolia	15	80	45	Good	Dominant	Semi-mature	Good	Yes		Yes	
15583	Western Red Cedar	Thuja plicata	31	80	50	Good	Dominant	Mature	Good	Yes		Yes	
15584	Bigleaf Maple	Acer macrophyllum	23	90	60	Fair	Dominant	Mature	Fair	Yes	Yes	Yes	
15585	Oregon Ash	Fraxinus latifolia	24	80	45	Good	Dominant	Mature	Good	Yes	Yes	Yes	
15594	Bigleaf Maple	Acer macrophyllum	16	30	15	Very Poor	Below Canopy	Semi-mature	Very Poor	Yes		Yes	Broken top at 30' above ground.
15595	Western Red Cedar	Thuja plicata	30	80	25	Good	Dominant	Mature	Good	Yes		Yes	
15602	Bigleaf Maple	Acer macrophyllum	17	70	35	Good	Dominant	Semi-mature	Good	Yes	Yes	Yes	ļ
15605	Western Red Cedar	Thuja plicata	27	60	40	Fair	Co-dominant	Mature	Poor	Yes		Yes	Broken top. Severe cavities in lower bole.
15606	Bigleaf Maple	Acer macrophyllum	28	90	50	Fair	Dominant	Over-mature	Very Poor	Yes	Yes	Yes	24" x 36" cavity from ground on N. side.
15607	Bigleaf Maple	Acer macrophyllum	33	50	35	Very Poor	Co-dominant	Over-mature	Very Poor	Yes		Yes	Failed stem with cavity at 15' above ground.
15608	Red Alder	Alnus rubra	17			Dead				Yes		Yes	
15612	Spruce	Picea sp.	16	40	30	Fair	Co-dominant	Mature	Poor	Yes		Yes	Broken top. Straddles property line.
15613	Bigleaf Maple	Acer macrophyllum	20	50	35	Fair	Co-dominant	Mature	Poor	Yes		Yes	1" x 8" cavity at 3' to3'-8" above ground on W. side.
15615	Bigleaf Maple	Acer macrophyllum	24	50	35	Poor	Co-dominant	Mature	Poor	Yes		Yes	Broken top.
15616	Bigleaf Maple	Acer macrophyllum	30	80	45	Good	Dominant	Mature	Good	Yes	Yes	Yes	
15618	Western Red Cedar	Thuja plicata	42	60	40	Good	Dominant	Mature	Good	Yes	Yes	Yes	
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NO.	COMMON NAME	BOTANICAL NAME	DBH	HEIGHT	SPREAD	FORM	CROWN CLASS	AGE CLASS	TREE	REGULATED	SIGNIFICANT	GROVE	COMMENTS
									HEALTH				
15619	Western Red Cedar	Thuja plicata	18	55	30	Good	Dominant	Semi-mature	Good	Yes	Yes	Yes	
15620.2	Bigleaf Maple	Acer macrophyllum	22	65	30	Fair	Co-dominant	Mature	Fair	Yes		Yes	
15621	Bigleaf Maple	Acer macrophyllum	12	50	20	Fair	Co-dominant	Mature	Fair	Yes		Yes	
15622	Oregon Ash	Fraxinus latifolia	22	80	45	Fair	Dominant	Mature	Fair	Yes		Yes	
15623	Bigleaf Maple	Acer macrophyllum	22	70	50	Good	Dominant	Mature	Good	Yes		Yes	
15624	Bigleaf Maple	Acer macrophyllum	22	80	45	Good	Dominant	Mature	Good	Yes		Yes	
15625	Red Alder	Alnus rubra	14	30	20	Very Poor	Co-dominant	Mature	Very Poor	Yes		Yes	Broken top.
15626	Red Alder	Alnus rubra	18	30	20	Very Poor	Co-dominant	Mature	Very Poor	Yes		Yes	Broken top.
15627	Red Alder	Alnus rubra	14	50	30	Fair	Co-dominant	Semi-mature	Fair	Yes		Yes	
15629	Willow	Salix sp.	14	50	30	Fair	Co-dominant	Mature	Fair	Yes		Yes	
15629.1	Bigleaf Maple	Acer macrophyllum	21	45	20	Very Poor	Co-dominant	Mature	Very Poor	Yes		Yes	Broken top.
105019	Oregon Ash	Fraxinus latifolia	32	70'	35	Fair	Dominant	Over-mature	Poor	Yes		Yes	Decay in lower bole.
105024	Oregon Ash	Fraxinus latifolia	12	35	20	Very Poor	Below Canopy	Over-mature	Very Poor	Yes		Yes	18" x 12' cavity from ground on W side.
105027	Oregon Ash	Fraxinus latifolia	20	75	30	Fair	Dominant	Over-mature	Very Poor	Yes		Yes	2 stems 12,16. 15" x 24" cavity from ground on W. side.
105065	Oregon Ash	Fraxinus latifolia	18	70	30	Fair	Dominant	Mature	Fair	Yes		Yes	
105082	Oregon Ash	Fraxinus latifolia	18	70	30	Poor	Co-dominant	Over-mature	Very Poor	Yes		Yes	6" x 10' cavity on W. side.
105096	Western Red Cedar	Thuja plicata	15	40	25	Good	Below Canopy	Young	Good	Yes		Yes	
105098	Western Red Cedar	Thuja plicata	15	40	25	Good	Below Canopy	Young	Good	Yes		Yes	

Appendix 4--4260 Kenthorpe Way, 4245, 4305 & 4315 Mapleton Dr. Non-Regulated Trees

NO. COMMON MAME BUTLACL MAM Date Heiror SPRAD Form Recover, LASS Recover, L											-		
13190 Sture Prine Proce conferge 8 20 15 Cond Bale Carrye Yang Goad No. Yang Cond No. 13190 Colley Prin Proce conferget 5 20 15 Cold Bale Carrye No. No. No. 13191 Dauges Prin Proceedings Carrye 4 20 15 Cold Bale Carrye No. No. No. 13191 Wester Biologic Stresses 4 20 15 Cold Bale Carrye No. No. No. 1311.1 Wester Biol Carrye Frage Carrye No. 10 Cold Bale Carrye No. No. No. No. 1311.1 Wester Biol Carrye Frage Carrye No. 10 Cold Bale Carrye No.	NO.	COMMON NAME	BOTANICAL NAME	DBH	HEIGHT	SPREAD	FORM	CROWN CLASS	AGE CLASS		REGULATED	GROVE	COMMENTS
1380 Catery Fur Proc caleryang S 20 15 Oats Rose Carego Yang Control Non Processor 13810 Catery Fur Proce Catery Fur 1 2 2 10 Control Non Non Non Non Non 13810 Catery Fur Proce Catery Fur 1 2 2 Control Non	13084.1	Douglas Fir	Fraxinus latifolia	5	20	10	Fair	Below Canopy	Young	Poor	No	Yes	Girdled with staking wires.
1398.11 Daughe R Proceedings Processor 4 6 9 15 Good Relate Carpy Young East You Income 1391.11 Datage Rel Carp Note of the processor 4 2 15 Core Relate Carpy You Note Note Note 131.11 Vesser Rel Carp Datage Rel Carp Note Note </td <td>13387</td> <td>Shore Pine</td> <td>Pinus contorta</td> <td>8</td> <td>25</td> <td>15</td> <td>Good</td> <td>Below Canopy</td> <td>Young</td> <td>Good</td> <td>No</td> <td>Yes</td> <td></td>	13387	Shore Pine	Pinus contorta	8	25	15	Good	Below Canopy	Young	Good	No	Yes	
1379-11 Doging IP Regularity Regularity<	13390	Callery Pear	Pyrus calleryana	5	20	15	Good	Below Canopy	Young	Good	No	Yes	
1398 Daugles fit Readensign nervores 4 4 5 1 Core Relation State None None None 1316.0 Core and state Data (Action State Data (Ac	13390.1	Douglas Fir	Pseudotsuga menziesii	6	25	15	Good	Below Canopy	Young	Good	No	Yes	
1310.2 Canada htembox Tage analysis B B Some markar Some markar Some markar Some markar No No 1311.1 Weeken Biel Cole Thage plata 1 A D Orent Below Cange No No No No 1311.2 Weeken Biel Cole Thage plata 1 A D Orent Below Cange No No No No 1311.1 Weeken Biel Cole Thage plata 4 20 Orent Below Cange Nong Good No No No 1311.5 Weeken Biel Cole Thage plata 1 20 1 Cole Below Cange Nong Good No													
131.11 Wester Red Cost They percent 4 20 10 Good Boor Carpoy Yong Cool No Yes 131.11 Western Red Cost They percent 1 3 0 Cool Boor Carpoy Trong Cool No Yes 131.11 Western Red Cost They percent 6 2 1 Cool Boor Carpoy Yong Cool No Yes 131.11 Western Red Cost They percent 6 2 1 Cool Boor Carpoy Yong Cool No Yes 131.11 Western Red Cost They percent 1 2 1 Cool Boor Carpoy Yong Cool No Yes 4 term 7: 1.4. Topped. Stand 1313.1 Merrine Morther Merrine Morther No Yes 4 term 7: 1.4. Topped. Stand Ander Ande						15					No		
131.1.1 Weslers Red Cost Thing percent 10 20 60.00 Baloc Zaray Yong Cost No Yes 131.31 Weslers Red Cost Thing percent 4 20 10 Good Baloc Zaray Yung Good No Yes 1321.1 Weslers Red Cost Thing percent 6 25 Cost Baloc Zaray Yung Cost No Yes 1321.1 Weslers Red Cost Thing percent 6 25 Cost Baloc Zaray Yung Cost No Yes 1321.1 Weslers Red Cost Thing percent 7 30 12 Cost Baloc Zaray Yong Cost No Yes 1321.3 Weslers Red Cost Thing percent Afric Subrey Status 10 25 Cost Baloc Zaray Yong Cost No Yes Yes Atrime Yong Cost No Yes Atrime Yong Cost No Yes Atrime Yong Cost No Yes No Yes Atrime Yong Cost No Yes N													
131.13 Western Red Coster Thrig prizet 6 20 100 Coot Bate Zenopy Young Coot No Yes 131.14 Western Red Coster Thig prizet 6 20 10 Good Bate Zenopy Young Coot No Yes 131.14 Western Red Coster Thig prizet 7 30 12 Coot Bate Zenopy Young Coot No Yes 133.14 Western Red Coster Thig prizet 7 30 12 Coot Bate Zenopy Young Coot No Yes 134.17 Western Red Coster Thig prizet 10 20 25 Fair Bate Zenopy Young Coot No													
333.14. Western Red Cost Thing Jackat 4 20 10 Good Bole Carrage Yong Good No Yong Cood No Yong No Yong No Yong No Yong No													
1341.31 Western Ref Cutur They priority 5 70 10 Good Read Non Yee 1341.41 Western Ref Cutur Thyse priority 11 30 12 Good Belox Caropy Yaang Good Noo Yee 1341.41 Western Ref Cutur Thyse priority 11 30 12 Good Belox Caropy Yeang Good Noo Noo Antern S1,2,4. Tapped. Turk Carly. Mesured al 3 store grant. 1341.8 Western Ref Cutur Thyse priorat 10 20 20 Good Belox Caropy Yuang Good Noo Noo 1341.4 Western Ref Cutur Thyse priorat 11 30 20 Good Good Root Noo Noo<													
1341.0. Western Net Code They price 6 2 1 2 Good Box Cood Non Yes 1341.0 Western Net Code Thing price 7 80 72 Good Box Code Non Yes 1341.0 Western Net Code Thing price Thing price Thing price Non Yes 1341.0 Western Net Code Thing price Thing price Non Yes Thing price Non Yes 1341.0 Net Net Code Magnola Magnola Magnola Non Second Non									5				
1343.7 Western Net Colar Thegi pictat. 11 30 12 Good Boto Yea Cood No. Yea 1343.8 Western Net Colar Thigh pictat. 11 20 25 Fair Boto Cronge Main No. Yea Anone No. Yea No. Yea Anone No.													
1313.13 Western Hed Coder Their predicate 7 30 12 Code Rese Canopy Yes 4 serms 17, 3.4. (Spped. Stem cartifies. 13137 Pactic Warrynie Myrica alformiza 10 20 25 Fait Below Canopy Mature Poor No Yes 4 stems 7, 7.3.4. (Spped. Stem cartifies. 13148 Matematica More and mature Poor No Yes 4 stems 7, 7.3.4. (Spped. Stem cartifies. 13141 Matematica More and mature Poor No Yes 4 stems 7, 7.3.4. (Spped. Stem cartifies. 13141 Matematica Mature Poor No Yes 4 stems 7, 7.3.4. (Spped. Stem 7) 13141 Matematica Mature Poor No Yes 4 stems 7, 7.3.4. (Spped. Stem 7) No Yes 4 stems 7, 7.3.4. (Spped. Stem 7) No Yes A stem 7) No No No No									5				
13137 Pacht Warrynel Myrics adfinories 11 20 25 Fair Biose Caropy Munic Poor No Yes Topped Line carlies. 15348 Pacific Warrynel Myrics adfinories 10 25 25 76 Biose Caropy Yes Topped Line Yes Topped Line 33 Yes Topped Line Topped Line Yes Topped Line Topped Lin													
13189 Pactr: Wavergette Myricz andformize 10 20 20 Fair Below Campog Num Food No Yes Togged. Trunk cavity. Measured at 3 above ground. 13141 Western Red Ceder Thule plactar 11 30 20 Good Below Campog Yeung Good No No 13151 Magnola Magnola Balow Campog Yeung Good No No No 13161 Magnola Balow Campog Yeung Good No No Yes Sterne 6.5. 13101 Diss Int Link - - Sterne 7.5 Sterne 7.5 Does Not Link Yes Sterne 7.5 Does Not Link Yes 13222 Shore Pine Prins contrint 11 35 Fiel Co-dominant Young Poor No Yes Trunc canity. Magnos Sterne 7.5 Trunc canity. Magnos Sterne 7.5 Trunc canity. Magnos Sterne 7.5 Sterne 7.5 Sterne 7.5 Sterne 7.5 Trunc canity. Magnos Stern													
13542 Magnela Magnela Magnela general Trijgs pictur 11 20 Cood Cood No No No 13141 Western Rod Codar Triggs pictur 11 20 200 Cood Rodw Campy Yuang Good No													
13141 Western Red Cedar Thill prints 11 50. 70. Cood No No No Percent control 13915 Magnola Magnola Magnola Magnola Na Verag Cood No Verag Stem 5.5. Dees Net Exit													Topped. Trunk cavity. Measured at 3' above ground.
13151 Magnola Magnola Magnola Set 8 2.5 2.0 Good Below Caroopy Young Good No Yes 2.1 Does Not Est 1307.1 Does Not Est Prove centrat 10 30 2.0 Fair Co-dominant Young Foor No Yes 1362.2 Shere Pine Prove centrita 10 30 15 Fair Co-dominant Young Foor No Yes 1362.2 Shere Pine Prove centrita 10 30 15 Fair Co-dominant Young Foor No Yes Bernes Poor No Yes Deves Deves Deves Deves Deves Deves D				-									
136171 Does Not East Proce Proce Proce Does Not East 13621 Shore Pine Proce contrat 10 30 10 Fair Codomiant Young Fair No Yes 13623 Shore Pine Proce contrat 10 30 15 Fair Codomiant Young Fair No Yes 13625 Shore Pine Proce contrat 0 30 15 Fair Codomiant Young Poor No Yes 13626 Shore Pine Proce contrat 0 30 15 Fair Codomiant Young Poor No Yes 13640 Bine rown Eagle contrast Proce contrast Poor No Yes Endition contrast 13640 Bacine Adar Codomiant Young Codd No Yes Endition contrast 13728 Western Red Costar Thug platat 8 35 2 Codo Codomiant Young Codd									5				
13:21 Shore Pine Prine contrat 10 30 13 20 Fair Co-dominant Young Poor No Yes 13:22 Shore Pine Prine contrat 11 30 15 Fair Co-dominant Young Poor No Yes 13:25 Shore Pine Prine contrat 11 30 15 Fair Co-dominant Young Poor No Yes 13:26 Shore Pine Prine contrat 13 31 15 Fair Co-dominant Young Poor No Yes 13:26 Shore Pine Prine contrat 13 15 God Co-dominant Young Poor No Yes Point contrat 11 35 15 God Co-dominant Young Poor No Yes Sterns 5.8.5.7.7.4 13:30 Wen Male Acct rabinizity Monta 8 20 Fair Co-dominant Young God No Yes Sterns 6			Magnolia sp.	8	25	20	Good	Below Canopy	Young	Good	No	Yes	
13222 Shore Pine Pine control 10 30 15 Fair Codeminant Young Fair No. Yes Excent control 13233 Shore Pine Pines control 9 30 15 Fair Codeminant Young Poor No Ves Excent control 13262 Shore Pine Pines control 9 30 15 Fair Codeminant Young Poor No Ves Excent control 13262 Shore Pine Pines control 9 30 15 God Codeminant Young Food No Ves Griding root. 13262 Shore Pine Pines control 10 35 15 God Codeminant Young Food No Ves Griding root. Griding root. Shore Pine Pines control 9 30 15 Fair Book Control No Ves Griding root. Shore Pine Pines control No Ves Stores A Store Pine Pines control No Ves Stores A Store Pine Pines control <td></td> <td>Does Not Exist</td>													Does Not Exist
13232 Shore Pine Pines controt 1 30 15 Fair Co-dominant Young Poor No Yes Dirars: 13265 Shore Pine Pines controt 9 35 15 Fair Co-dominant Young Poor No Viss Thin crown. High crown. Barrs: 13262 Shore Pine Pines controt 11 35 15 God Co-dominant Young Poor No Viss Thin crown. High crown. Barrs: 13262 Shore Pine Pines controt 11 35 15 God Co-dominant Young Foor No Viss Califlar cot. 13368 Bulk Alls Cedar Celtras Minteric Galuer: 10 15 Fair Godo Nou Viss 2 stems 6. 2. 1333 Bulk Alls Cedar Mysica Minteric 0 13 15 Fair Godo Control Nou Viss 2 stems 6. 2. 10 14 16 0. Nos Viss 2 stems 6. 2. 15 16 16 0. 16 16	13621	Shore Pine	Pinus contorta	10	30	20	Fair	Co-dominant	Young	Poor	No	Yes	
13:23 Shore Pine Pines contrait 11 30 15 Fair Co-dominant Young Poor No Yes Borers. 13:25 Shore Pine Pines contrat 9 35 15 Fair Co-dominant Young Poor No Yes 13:26 Shore Pine Pines contrat 9 35 15 Good Co-dominant Young Codd No Yes 13:27 Shore Pine Pines contrat 13 15 Good Co-dominant Young Codd No Yes Codins allinities Column Young Codd No Yes Codins allinities Column Young Codd No Yes Rest Allinities Column	13622	Shore Pine	Pinus contorta	10	30	15	Fair	Co-dominant	Young	Fair	No	Yes	
13250 Shore Pine Prine contraita 9 30 15 Fair Co-dominant Young Poor No Yes Therrorm. High crown. Beers. 13260 Shore Pine Prine contraita 11 35 15 Good Co-dominant Young Cood No. Yes The rown. High crown. Beers. 13207 Blave Attas Cetar Cetrus attaintica Glauczi 11 35 15 Good Co-dominant Young Cood No. Yes Ediding root. 13331 Blave Attas Cetar Cetrus attaintica Glauczi 11 35 15 Good Co-dominant Young Cood No. Yes Ediding root. 13340 Weistem Net Cetar <i>Thuig plactafa</i> 8 55 20 Cood Co-dominant Young Cood No. Yes Ecan Sold No. Yes Ecan Sold No. Yes Ecan Sold No. Yes Ecan Sold No. Yes	13623	Shore Pine		11			Fair	Co-dominant	Young	Poor	No	Yes	Borers.
1362b Shore Pine Prins controlt 9 35 15 Fair Co-dominant Young Foor No Yes Thin crown. High crown. Borers. 13627 Shore Pine Prins controlt 11 35 15 Good Co-dominant Young Good No Yes Gridin crout. 13628 Blue Alts Cedar Adam Calcurat 13 5 Good Co-dominant Young Good No Yes Starms A.S.A.S.A.A.A. 13640 Packet Manyrel Adver chronint 10 25 Fair Below Conogy Multer Poor No Yes Starms A.S.A.S.A.A.A. 13728 Westem Red Cedar <i>Thulg plicita</i> 8 35 Co-dominant Young Good No Yes Starms A.S.A.S.A.A.A.A.A.A.A.A.A.A.A.A.A.A.A.A	13625	Shore Pine	Pinus contorta	9	30	15	Fair	Co-dominant	Young	Poor	No		
1327 Shore Pine Pines contorta 11 35 15 Good Code Vers Entert 13297 Blue Altis Cedar Cedrus atlantica Glucar 1 35 15 Good Codo Non Vers Circlina root. 13358 Bigleaf Magle Accer macryphylim 17 30 30 Good No Vers 2 stems 6.5.8.5.6.7.4.4 13600 Pacific Warrynthe Myrick californica 9 12 15 Fair Below Canopy Young Good No Vers 2 stems 6.3. 13720 Westem Red Codar Thulg Jackata 8 35 20 Good Co-dominant Young Good No Vers 2 stems 6.3. 3.3. 13720 Westem Red Codar Thulg Jackata 11 25 20 Fair Co-dominant Young Good No Vers 1.3. 13730 Shore Pine Phair Co-dominant Young Good No Vers				9					5				Thin crown, High crown, Borers,
13620 Blue Alus Codar Codars attentica Cibucar 9 95 15 Good No Yes Griding col. 13631 Blue Alus Codar Codars attentica Cibucar 11 35 15 Good Nou Yes 8 8 8 8 13 5 Good Nou Yes 8 8 8 35 20 Fait Codominant Young Good Nou Yes 2 15 Fait Codominant Young Good Nou Yes 2 1373 Western Red Codar Thuja platat 11 25 20 Fait Codominant Young Good Nou Yes 1 1373 Western Red Codar Thuja platat 11 25 20 Fait Codominant Young Good Nou Yes 1 1373 Western Red Codar Thuja platat 10 25 20 Fait Codominant Young Good No Yes 1 13739													
1351 Blue Alss Cadar Codit a sitentica Giucar 11 35 So Good No Yes Excenses 13658 Bigleaf Magie Acor macrophum 17 30 30 Good No Yes 8 storms 8.58.5.6.7.4.4 13690 Pacific Varametric Mrica alibratica 9 12 15 Fair Co-dominant Young Good No Yes 2 storms 6.3. 13728 Western Red Odar Thuja pilcata 10 25 20 Good No Yes 13730.1 Vine Maple Acor cichatum 10 25 20 Fair Co-dominant Young Good No Yes 13737 Swestern Red Odar Thuja pilcata 10 25 20 Fair Co-dominant Young Good No Yes 13739 Western Red Odar Thuja pilcata 10 25 20 Fair Co-dominant Young Good No Yes </td <td></td> <td>Girdling root</td>													Girdling root
13658 Bigledi Maple Aor maccaphylum 17 30 30 Good Below Canopy Young Good No Yes 8 terms 6, 5, 8, 6, 7, 4. 13728 Westem Red Cedar <i>Thuja plicata</i> 8 35 20 Fair Codminant Young Good No Yes 2 terms 6, 3. 13728.1 Wine Maple Aoer circinatum 10 25 20 Good Co-dominant Young Good No Yes 13730.1 Wine Maple Aoer circinatum 10 25 20 Fair Co-dominant Young Good No Yes 13737 Westem Red Cedar Thuja plicata 10 25 20 Fair Co-dominant Young Good No Yes 13739 Westem Red Cedar Thuja plicata 10 25 20 Fair Co-dominant Young Good No Yes 13739.1 Westem Red Cedar Thuja plicata 10 </td <td></td> <td>Girding root.</td>													Girding root.
Table Pacific Warmytlie Myrka califerinica 9 12 15 Fair Before Cacopy Matric Poor No Yes 2 stems 6.3 13728 Wise Maple Acor circinatum 10 25 20 Good Co-dominant Young Good No Yes 13728.1 Vine Maple Acor circinatum 10 25 20 Good Co-dominant Young Good No Yes 13730.1 Vine Maple Acor circinatum 10 25 20 Fair Co-dominant Young Good No Yes 13737 Westem Red Cedar Thuja pilcata 10 25 20 Fair Co-dominant Young Good No Yes 13739 Westem Red Cedar Thuja pilcata 5 15 10 Fair Co-dominant Young Good No Yes 13739 Westem Red Cedar Thuja pilcata 8 30 20 Good Co									5				8 stoms 8 5 8 5 6 7 1 1
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	13990.3	Western Red Cedar	Thuja plicata	6	25	15	Good	Below Canopy	Young	Good	No	Yes	

NO.	COMMON NAME	BOTANICAL NAME	DBH	HEIGHT	SPREAD	FORM	CROWN CLASS	AGE CLASS	TREE HEALTH	REGULATED	GROVE	COMMENTS
13992	Sweet Cherry	Prunus avium	8	25	15	Fair	Below Canopy	Young	Fair	No	Yes	3 stems 4,4,5.
13992.2	Douglas Fir	Pseudotsuga menziesii	9	30	20	Good	Below Canopy	Young	Good	No	Yes	
13992.3	Douglas Fir	Pseudotsuga menziesii	10	30	20	Good	Single tree	Young	Good	No	Yes	
13992.5	Douglas Fir	Pseudotsuga menziesii	8	25	15	Good	Below Canopy	Young	Good	No	Yes	
13992.6	Red Maple	Acer rubrum	9	30	20	Good	Below Canopy	Young	Good	No	Yes	Appears to be off property.
14160	Western Red Cedar	Thuja plicate	11	30	25	Fair	Co dominant	Mature	Poor	No	Yes	Wound seam from ground to 18' above ground . Not 12".
14160.1	Pear, Common	Pyrus communis	14	30	25	Poor	Below canopy	Mature	Poor	No	Yes	2 stems 9,10. Fruit Tree
14163	European White Birch	Betula pendula	7	30	25				Dead	No		Dead.
14163.1	White Fir	Abies concolor	8	35	25	Poor	Co dominant	Mature	Poor	No	Yes	High crown Thin crown. Not 12".
14163.2	English Holly	Ilex aquifolium	5	20	20	Fair	Below canopy	Semi-Mature	Fair	No	Yes	
14165	Spruce	Picea sp.	10	30	20	Fair	Co dominant	Semi-Mature	Fair	No	Yes	Not 12".
14168.1	Douglas Fir	Pseudotsuga menziesii	5	30	20	Good	Below canopy	Young	Good	No	Yes	Not 12".
14168.2	Western Red Cedar	Thuja plicata	6	25	20	Good	Below canopy	Young	Good	No	Yes	Not 12".
14170	Common Apple	Malus pumila	23	35	35	Poor	Below canopy	Over-mature	Poor	No	Yes	Stag headed. Fruit tree.
14171.1	Western Red Cedar	Thuja plicata	7	25	15	Fair	Below canopy	Young	Fair	No	Yes	Not 12".
14171.2	Western Red Cedar	Thuja plicata	5	20	12	Poor	Below canopy	Young	Poor	No	Yes	Trunk cavity. Not 12"
14172	Western Red Cedar	Thuja plicata	5	20	12	Poor	Below canopy	Young	Poor	No	Yes	
14173 14175	Spruce	Picea sp.	/	30 20	20	Poor	Below canopy	Semi-Mature	Poor	No	Yes	Suppressed. Not 12".
14175	Arborvitae Western Red Codar	Thuja occidentalis	8	20	8 15	Poor	Below canopy	Mature	Fair Good	No No	Yes	Not 12".
14177	Western Red Cedar Western Red Cedar	Thuja plicata Thuja plicata	9	20	20	Good Good	Below canopy Below canopy	Young Young	Good	NO	Yes Yes	Not 12".
14178	Western Red Cedar	Thuja plicata	11	25	20	Good	Co dominant	Young	Good	No	Yes	Not 12".
14179		Picea sp.	10	30	20			Semi-Mature	Fair	No	No	Leans W. Not 12"
14183	Spruce Arborvitae	Picea sp. Thuja occidentalis	9	20	25	Poor Poor	Co dominant	Mature	Fair	NO	No	3 stems 3 stems 6,6,3. Not 12"
14184	Arborvitae	Thuja occidentalis	3	15	4	Poor	Below canopy Below canopy	Mature	Poor	No	No	Not 12".
14187	Plum	Prunus sp.	11	25	35	Very Poor	Below canopy	Over-mature	Fair	No	Yes	Not 12".
14190	English Holly	Ilex aquifolium	8	20	15	Poor	Below canopy	Young	Fair	No	Yes	4 stems 5,4,4,3. Not 12"
14201	Ponderosa Pine	Pinus ponderosa	4	12	10	Poor	Below canopy	Semi-Mature	Poor	No	Yes	Severe lean S. Suppressed. Not 12".
14203	Shore Pine	Pinus contorta	9	25	20	Poor	Below canopy	Mature	Poor	No	Yes	Not 12".
14204	Hinoki Falsecypress	Chamaecyparis obtusa	8	20	10	Poor	Below canopy	Mature	Poor	No	No	Not 12".
14200	Spruce	Picea sp.	10	30	20	Fair	Co dominant	Semi-Mature	Fair	No	Yes	Not 12".
14218	Red Alder	Alnus rubra	9	25	20	Fair	Co dominant	Young	Good	No	Yes	Not 12".
14219	Black Cottonwood	Populus trichocarpa	18	65	35	Fair	Dominant	Mature	Good	No	Yes	Off property.
14222	Douglas Fir	Pseudotsuga menziesii	6	20	12	Fair	Below canopy	Young	Fair	No	Yes	Not 12".
14224	European White Birch	Betula pendula	11	40	25	Fair	Co dominant	Mature	Poor	No	Yes	7" x 10' cavity from 6' to 16' above ground on W side. Not
												12"
14228.1	Pine	Pine sp.	9	30	20	Poor	Co dominant	Mature	Poor	No	Yes	Suppressed. Not 12".
14228.2	European White Birch	Betula pendula	9	35	20	Poor	Co dominant	Semi-Mature	Poor	No	Yes	Leans S. Not 12"
14246	Black Cottonwood	Populus trichocarpa	8	30	20	Fair	Co dominant	Young	Fair	No	Yes	
14246.1	Black Cottonwood	Populus trichocarpa	5	20	15	Fair	Below canopy	Young	Fair	No	Yes	
14247	Black Cottonwood	Populus trichocarpa	7	30	20	Fair	Co dominant	Young	Fair	No	Yes	
14255	Arborvitae	Thuja occidentalis	5	15	5	Poor	Below canopy	Mature	Poor	No	No	Not 12".
14256	English Holly	Ilex aquifolium	6	20	16	Fair	Below canopy	Young	Fair	No	Yes	Not 12"
14257	English Holly	Ilex aquifolium	6	20	15	Fair	Below canopy	Young	Fair	No	Yes	Not field tagged. Not 12"
14257.1	English Holly	Ilex aquifolium	6	20	15	Fair	Below canopy	Young	Fair	No	Yes	Not field tagged. Not 12"
14258	Arborvitae	Thuja occidentalis	4	15	5	Poor	Below canopy	Mature	Poor	No	No	Not 12".
14259	Shore Pine	Pinus contorta	8	30	12	Fair	Below canopy	Mature	Fair	No	No	Not 12".
14287	Willow	Salix sp.	11	40	35	Fair	Below canopy	Young	Fair	No	Yes	6 stems 5,5,5,4,4,4. Not 12"
14288	Black Cottonwood	Populus trichocarpa	6	35	15	Fair	Below canopy	Young	Fair	No	Yes	Not 12".
14289	Black Cottonwood	Populus trichocarpa	11	45	25	Fair	Below canopy	Young	Fair	No	Yes	Not 12".
14290	Black Cottonwood	Populus trichocarpa	7	35	15	Fair	Below canopy	Young	Fair	No	Yes	Not 12".
14291	Black Cottonwood	Populus trichocarpa	10	40	20	Fair	Below canopy	Young	Fair	No	Yes	Not 12".
14292	Black Cottonwood	Populus trichocarpa	9	35	20	Fair	Below canopy	Young	Fair	No	Yes	Not 12".
14320	Willow	Salix sp.	10	45	30	Poor	Below canopy	Mature	Fair	No	Yes	2 stems 6,8. High crown. Not 12".
14321.1	Cherry, Sweet	Prunus avium	6	30	20	Fair	Below canopy	Young	Fair	No	Yes	Fruit tree.
14321.2	Cherry, Sweet	Prunus avium	5	30	20	Fair	Below canopy	Young	Fair	No	Yes	Fruit tree.
14321.3	Cherry, Sweet	Prunus avium	6	30	20	Fair	Below canopy	Young	Fair	No	Yes	Fruit tree.
14323	Oregon Ash	Fraxinus latifolia	9	35	20	Fair	Co dominant	Young	Fair	No	Yes	Not 12".
14323.1	Oregon Ash	Fraxinus latifolia	10	35	20	Fair	Co dominant	Young	Fair	No	Yes	Not 12".
14324.1	Oregon Ash	Fraxinus latifolia	6	35	20	Poor	Below canopy	Young	Poor	No	Yes	Trunk cavity. Not 12"
14326.1	Hawthorn, Common	Craetagus monogyna	6	20	15	Poor	Below canopy	Mature	Very Poor	No	Yes	Trunk cavity. Leans S. Not 12"
14336	Spruce	Fraxinus latifolia	9	25	20	Fair	Below canopy	Young	Fair	No	Yes	

1144 Houghs fr Poschings mervine 10 20 15 Ways between young Fund Fund No. Restance of a finance o	NO.	COMMON NAME	BOTANICAL NAME	DBH	HEIGHT	SPREAD	FORM	CROWN CLASS	AGE CLASS	TREE HEALTH	REGULATED	GROVE	COMMENTS
1434 Common Age Makes Fair Base Lossit Makes Fair No. Ves. Bit Lossit			2						<u>,</u>				
1168.2 Bisk Local Abeling processory 9 20 Poor Batter cancely Years Fair No. Yes Starms & A. Hell 12" 1130.8 Pair Seaf Local Abeling processory 110 Pair Seaf Local Abeling processory Hour Seaf Pair Pair Pair Pair Pair Pair Pair Pair													
1143.2 Bisk Locut Mobile pseudocucie 110 23 28 Fair Batter campy Young Fair No Yes 1350. New Text community 5 13 12 New Text													
158.0 Part. Doorf Futition Parts: commons 11 25 20 Fair Below campy Mature Poor No.													2 stems 6,6. Not 12"
1436 Perr, Dearf Truiting Phys. Communes 5 15 12 Fail Below cancey Mature Poor No No No 2 stores 4.2. Truit rese 14364 Frught Induy <i>Inter adjustion</i> 5 30 12 Fail Below cancey Year No													
1348 Pair, Dearf Friding Open A No.				-				12				-	
1465.1 English Holy <i>International and States granded by the service of the service </i>													
1111 Origen An Frazient billion 5 30 20 Good No No <th< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></th<>													
11212 Store Prine Prine accounting 5 12 12 Fair Below candygi Youngi Good No No No No No No No 14376 Cherry, Fraiting, Pravise aview 10 14 64 Fair No No No No No No 11379 Cherry, Fraiting, Pravise aview 0 25 12 Fair No										-			
14370 Oberty, Fulling Purus anion 20 30 35 Fair Below cardyrg Num No Messured 12 above ground. Fruit tree. 14377 Common Apple Makes puruli 8 35 30 Fair Below cardyrg Mature Fair No No No Messured 12 above ground. Fruit tree. 14391 Common Apple Makes puruli 0 25 25 Fair Below cardyr. No No No Messured 12 above ground. Fruit tree. 14400 Houthon. Common C Catalogas monoganu 10 25 15 Very Poor No Vers Doat 12 above No													
14371 Cherry, Fultring Phone adum 17 40 40 Fair Below campy Mature Fair No No No Messared at 3 above ground. Fruit tree. 14390 Common Apple Malar purnits 9 25 15 Very Poor No No Messared at 3 above ground. Fruit tree. 14302.1 Hearthorn, Common Calabage menogene 0 25 15 Very Poor No No Messared at 3 above ground. Fruit tree. 14402.1 Hearthorn, Common Calabage menogene 10 25 15 Very Poor No Yes 2 atoms 7.0. Concol at 426 Mapteton P. No. 14402.1 Vergen Ahn Fraire Blow campy Young Fair Blow campy <t< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td><u>,</u></td><td></td><td></td><td></td><td></td></t<>									<u>,</u>				
14737 Common Apple Moles pumile 9 35 20 Fair Below controp, Mature Fair No No Moseneral at 3 above ground. Truit true. 14390 Common Apple Moles pumile 9 25 25 Fair Below controp, Mature Very Poor No No Measured at 3 above ground. Truit true. 14400 Headmon, Common Contrologin monogine 5 20 Poor Below cantrop, Below cantrop, Below cantrop, Below cantrop, Below cantrop, No No No Measured at 25 above ground. Truit true. 14401 Headmon, Commo Control on Taineau Control on Taineau Poor Below cantrop, Below cantrop, No Yes No Yes Data 25 Poor Below cantrop, Below cantrop, No Yes No Yes No No State 25 No Fair Gelow cantrop, Below cantrop, No Yes No No State 25 State 25 Poor Below cantrop, No Yes No No State 25 State 25 State 25 State 25 Poor Below cantrop, No Yes No													
14380 Common Apple Maker pumile 9 25 75 Fair Relow cancey Mature Fair No No Measured in 2.9 kool ground. 14302.1 Hawthorn, Common Catalogs monograps 10 25 15 Poor Below cancey Mature Very Poor No Yes Dead Loss No 12". 14400.1 Hawthorn, Common Catalogs monograps 10 25 Fair Below cancey Mature Fair No Yes Yes<													
11322.1 Hearthorn, Common Catalogas monograph 6 25 15 Very Poor Relow cancey Mature Very Poor No Yes 2 black 50, No 1 2° 14405.1 Hearthorn, Common Catalogas monograph 5 20 15 Poor Below cancey Mature Fair No Yes 2 black 50, No 1 2° 14405.1 Hearthorn, Common Catalogas monograph 6 2 5 Poor Below cancey Young Fair No Yes 2 stems 7.6. Located at 4246 Magheton Dr. Not 12° 14407.1 Oregon Ah Frairus subarn 10 2 5 20 Fair Below cancey Young Poor No Yes 2 stems 7.6. Located at 4246 Magheton Dr. Not 12° 14438.1 Cragen Ah Faurins subriton 10 2 5 20 Fair Below cancey Young Foor No <				-						-			
14400. Hawthern, Common Catalenges managyna 10 25 Poor Below canopy Mature Very Poor No Vers 2 stems Ans 12* 14405.1 Hawthern, Common Oragon Ah Frazina faitfolia 9 40 25 Fair Below canopy Vaung Fair No Vers 32 stems 7.6. Located at 4245 Magleton Dr. Net 14407.1 Oregon Ah Frazina faitfolia 9 45 25 Poor Below canopy Young Fair No Vers 32 stems 7.6. Located at 4245 Magleton Dr. Net 14411 Sweet Cherry Purus avium 10 25 20 Fair Below canopy Young Fair No No <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>-</td> <td></td> <td></td> <td></td>										-			
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14407.1 Oregon Ash Frakmis latibility 9 40 25 Fair Below canopy Young Fair No Yes 2 stems 7.2. Located at 4245 Mapleton Dr. Not 12* 14407.2 Oregon Ash Frakmis latibility 9 45 25 Poor Below canopy Young Poor No Yes 2 stems 7.2. Located at 4245 Mapleton Dr. Not 12* 14413 Oregon Ash Frair No No X to 72 antly from ground on Nide. Located at 4454 Mapleton Dr. Not 12* 14438 Oregon Mile Oak Overcas garryana 18 25 30 Fair Co dominant Mature Good No No Off property in Mapleton Dr. Not 12* 14456 Spruce No exp sp 9 30 25 Fair Co dominant Mature Foor No													
14407.2 Oregon Ash Fraxinus tillibility 9 45 25 Poor Below canopy Young Poor No Yes 3' x 10' cavily from ground on Nsde. Located a Melton Dr. Voung 14411 Sweet Cherry Pruns avium 10 25 20 Fair Below canopy Young Fair No No 2 stems 7.7. 14438 Cropen White GA Ourcas app. 9 30 25 Fair Codminant Mature Good No No Measured at ground. No 12'' 14455 English Walnut Augers regin 17 30 35 Fair Codminant Mature Fair No No 172'' Thee 14450 Common Apple Mature Standing 21 20 Poor Below canopy Mature Poor No Young Fair No No Topped. Fruit Tree 14461 Common Apple Mature Standing 21 20 Poor Below canopy Mature Poor No													
Loc Loc Loc Loc Loc Mageleton Dr. Not 12° 14411 Sweet Cherry Prunus avium 10 25 30 Fair No No No ON ON Masseleton RW. 14438 Oregon White Oak Cuercus garyana 18 25 30 Fair Codminant Mature Good No No Messured at ground. No! 12° 14435 Crapemyrite Jage Sage 9 30 25 Fair Codminant Mature Fair No Messured at ground. No! 12° 14455 Spruce Peor age 7 30 35 Fair Codminant Mature Fair No No Ves Topped. Fruit Tree 14461 Common Apple Matuse purilin 12 20 20 Poor Below canopy Mature Poor No Ves Topped. Fruit Tree 14463 Common Apple Matuse purilin 14 20 Cod Below canopy Mature													
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14438 Oregon White Oak Quercus garyana 18 25 30 Fair Co dominant Mature Good No No No Off property in Mapleton RVM. 14438 Crapenrytin Lage Structure Pice a sp. 9 30 25 Fair Co dominant Young Fair No No Ves No 172" 14456 Spruce Pice a sp. 9 30 25 Fair Co dominant Mature Fair No Ves Topped. Fruil Tree 14450 Common Apple Matus pumila 12 25 30 Poor Below canopy Mature Poor No Yes Topped. Fruil Tree 14461 Common Apple Matus pumila 12 20 Poor Below canopy Mature Poor No Yes Topped. Fruil Tree 14476 Red Adde Aftars tubra 7 30 20 Good Below canopy Mature Fair No No Yes	14411	Sweet Cherry	Prunus avium	10	25	20	Fair	Below canopy	Young	Fair	No	No	
14438.1 Crapemyrtle Lagerstrioning sp. 10 20 40 Good Below canopy Mature Good No No No Measured at ground. Not 12" 14457 Engish Wahut Juglass regig 17 30 35 Fair Codminant Muture Fair No No No No Topped. Fruit Tree 14450 Common Apple Mutus pumila 21 25 30 Poor Edominant Muture Poor No Yes Topped. Fruit Tree 14460 Common Apple Mutus pumila 12 20 Poor Below canopy Muture Poor No Yes Topped. Fruit Tree 14476 Common Apple Mutus pumila 14 20 20 Cood Codminant Seminanter Cood No Yes Topped. Fruit Tree 14476 Coronno Apple Mutus pumila 8 25 25 15 Cood Below canopy Young Cood No Yes <no11< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></no11<>													
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14461 Common Apple Matus pumila 12 20 20 Poor Meture Poor No Yes Topped. Fruit Tree 14476 Red Alder Allus pumila 14 20 20 Poor Below canopy Mature Poor No Yes Topped. Fruit Tree 14476.1 Oregon Ash Fraitinus kittolia 8 35 20 Good Code No Yes N	14459	Common Apple	Malus pumila	23	35	30	Poor	Co dominant	Mature	Fair	No	Yes	Topped. Fruit Tree
14463 Common Apple Malus pumila 14 20 Poor Below canopy Mature Poor No Yes Topped. Fruit Tree 14476.1 Oregon Ash Fraxinus latifolia 8 35 20 Good Below canopy Young Good No Yes 2 stems 6.6. No1 12" 14476.1 Oregon Ash Fraxinus latifolia 8 35 20 Good Below canopy Young Good No Yes 2 stems 6.6. No1 12" 14470.1 Oregon Ash Fraxinus latifolia 8 35 20 Good Below Canopy Young Good No Yes 2 stems 7,7.5.6. 15476.1 Douglas Fir Pseudotsuga merziesii 7 20 15 Good Below Canopy Young Good No Yes Partial uproot. 15476.2 Douglas Fir Pseudotsuga merziesii 4 25 15 Good Below Canopy Young Poor No Yes Partial uproot. Suppressed.	14460	Common Apple		21	25	30	Poor	Below canopy	Mature	Poor	No	Yes	Topped. Fruit Tree
14476 Ret Alder Ans. tubra 7 30 20 Good C odod No Yes No112". 14476.1 Oregon Ash Fravinus latifolia 8 35 20 Good Codod No Yes 2 stems 6.6. No112". 14507 Crabapple Malus sp. 25 25 35 Fair Below canopy Woung Good No Yes 2 stems 7.5.6. 15470.1 Black Cottonwood Populus trichocarpa 6 25 15 Good Relow Canopy Young Good No Yes 2 stems 4.5. Stems 4.5. 15470.2 Douglas Fir Pseudotsuga merziesii 6 25 15 Poor Below Canopy Young Good No Yes Partial urooot. 15476.1 Douglas Fir Pseudotsuga merziesii 4 25 15 Foar Below Canopy Semi-mature Fair No Yes Corected lean S. 15577 Biglad Maple Acor macrophylum	14461	Common Apple	Malus pumila	12	20	20	Poor	Below canopy	Mature	Poor	No	Yes	Topped. Fruit Tree
14476.1 Oregon Ash Fraxinus latifolia 8 35 20 Good Below canopy Young Good No Yes 2 stems 6.6. Not 12" 14507 Crabapple Malus sp. 25 25 35 Fair Below canopy Mature Fair No No 4 stems 7.7.5.6. 15470.1 Willow Salk sp. 7 20 20 Fair Single tree Mature Fair No Yes 2 stems 4.5. 15476.1 Douglas Fir Pseudotsuga menziesii 6 25 15 Good Below Canopy Young Good No Yes 15478.1 Douglas Fir Pseudotsuga menziesii 4 25 15 Fair Below Canopy Young Good No Yes Carcetel ans. 15577 Bigleaf Maple Acer macraphyllum 8 35 20 Poor Below Canopy Young Food No Yes Suppressed. 15587 Biack Cottonwood	14463	Common Apple	Malus pumila	14	20	20	Poor	Below canopy	Mature	Poor	No	Yes	Topped. Fruit Tree
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15470 Black Cottonwood Populus trichocarpa 6 25 15 Good Below Canopy Young Good No Yes 15470.1 Willow Salix sp. 7 20 20 Fair Single tree Mature Fair No Yes 2 stems 4,5. 15476.1 Douglas Fir Pseudolsuga menziesii 6 25 15 Good Below Canopy Young Good No Yes 15478.1 Douglas Fir Pseudolsuga menziesii 4 25 15 Good Below Canopy Young Good No Yes 15573.1 Western Red Cedar Thuja plicata 7 25 15 Fair Below Canopy Young Good No Yes Corrected lean S. 15577 Bigleaf Maple Acer macrophyllum 8 35 20 Poor Below Canopy Young Foor No Yes Suppressed. 15587 Black Cottonwood Populus trichocarpa 1 </td <td></td> <td>Oregon Ash</td> <td></td> <td></td> <td></td> <td></td> <td>Good</td> <td>Below canopy</td> <td>Young</td> <td>Good</td> <td></td> <td>Yes</td> <td></td>		Oregon Ash					Good	Below canopy	Young	Good		Yes	
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	15614	Bigleaf Maple	Acer macrophyllum	7	25	10	Fair	Co-dominant	Mature	Poor	No	Yes	Broken top.
1562 Bigleaf Maple Acer macrophyllum 9 45 20 Poor Below Canopy Mature Poor No Yes Suppressed.				9									
15620.1 Bigleaf Maple Acer macrophyllum 6 45 15 Poor Below Canopy Mature Poor No Yes Suppressed.													
15621.1 Bigleaf Maple Acer macrophyllum 9 50 20 Fair Co-dominant Mature Fair No Yes													
15621.2 Bigleaf Maple Acer macrophyllum 4 25 10 Fair Co-dominant Mature Fair No Yes	15621.2	Bigleaf Maple	Acer macrophyllum	4	25	10	Fair	Co-dominant	Mature	Fair	No	Yes	
15628 Red Alder Alnus rubra 8 20 10 Very Poor Below Canopy Semi-mature Very Poor No Yes Broken top.	15628			8	20	10	Very Poor	Below Canopy	Semi-mature	Very Poor	No	Yes	Broken top.

NO.	COMMON NAME	BOTANICAL NAME	DBH	HEIGHT	SPREAD	FORM	CROWN CLASS	AGE CLASS	TREE HEALTH	REGULATED	GROVE	COMMENTS
105000	Douglas Fir	Pseudotsuga menziesii	11	30	20	Good	Co-dominant	Young	Good	No	Yes	
105001	Douglas Fir	Pseudotsuga menziesii	6	25	15	Good	Co-dominant	Young	Good	No	Yes	
105002	Douglas Fir	Pseudotsuga menziesii	7	25	15	Good	Co-dominant	Young	Good	No	Yes	
105003	Douglas Fir	Pseudotsuga menziesii	6	25	15	Good	Co-dominant	Young	Good	No	Yes	
105004	Douglas Fir	Pseudotsuga menziesii	7	25	15	Good	Co-dominant	Young	Good	No	Yes	
105006	Red Osier Dogwood	Cornus sericea	5	20	20	Good	Co-dominant	Young	Good	No	Yes	
105007	Douglas Fir	Pseudotsuga menziesii	6	25	15	Good	Co-dominant	Young	Good	No	Yes	
105008	Black Cottonwood	Populus trichocarpa	5	25	15	Good	Co-dominant	Young	Good	No	Yes	
105009	Black Cottonwood	Populus trichocarpa	7	25	15	Good	Co-dominant	Young	Good	No	Yes	
105010	Black Cottonwood	Populus trichocarpa	5	25	15	Good	Co-dominant	Young	Good	No	Yes	
105011	Douglas Fir	Pseudotsuga menziesii	7	25	15	Good	Co-dominant	Young	Good	No	Yes	
105012	Black Cottonwood	Populus trichocarpa	4	25	15	Good	Co-dominant	Young	Good	No	Yes	
105013	Black Cottonwood	Populus trichocarpa	9	25	15	Good	Co-dominant	Young	Good	No	Yes	Lost top.
105014	Black Cottonwood	Populus trichocarpa	3	25	15	Good	Co-dominant	Young	Good	No	Yes	2 -4
105015	Willow	Salix sp.	5	20 25	20 15	Fair	Below Canopy	Young	Fair	No	Yes	3 stems 3,4,4.
105016	Black Cottonwood Western Red Cedar	Populus trichocarpa	5			Good	Co-dominant	Young	Good	No	Yes	
105017 105018	Bigleaf Maple	Thuja plicata Acer macrophyllum	8	25 25	15 15	Good Good	Co-dominant Co-dominant	Young Young	Good Good	No No	Yes Yes	
105018	Sweet Cherry	Prunus avium	8	25 50	30	Fair	Co-dominant Co-dominant	Semi-mature	Fair	No	Yes	
105020	Sweet Cherry	Prunus avium Prunus avium	8	50	30	Fair	Co-dominant Co-dominant	Semi-mature	Fair	No	Yes	
105021	Douglas Fir	Pseudotsuga menziesii	4	20	10	Fair	Below Canopy	Young	Poor	No	Yes	Girdled with staking wires.
105022	Douglas Fir	Pseudotsuga menziesii	7	25	15	Fair	Co-dominant	Young	Poor	No	Yes	Girdled with staking wires.
105025	Douglas Fir	Pseudotsuga menziesii	3	20	10	Poor	Below Canopy	Young	Poor	No	Yes	Suppressed.
105025	Douglas Fir	Pseudotsuga menziesii	5	25	10	Fair	Below Canopy	Young	Poor	No	Yes	Girdled with staking wires.
105028	Western Red Cedar	Thuja plicata	8	30	15	Good	Co-dominant	Young	Good	No	Yes	Girdied with staking wires.
105020	Western Red Cedar	Thuja plicata	4	25	15	Good	Co-dominant	Young	Good	No	Yes	
105030	Black Cottonwood	Populus trichocarpa	4	25	15	Good	Co-dominant	Young	Good	No	Yes	
105030.1	Western Red Cedar	Thuja plicata	8	25	15	Good	Co-dominant	Young	Good	No	Yes	
105031	Western Red Cedar	Thuja plicata	7	25	15	Good	Co-dominant	Young	Good	No	Yes	
105032	Douglas Fir	Pseudotsuga menziesii	6	25	15	Good	Co-dominant	Young	Good	No	Yes	
105033	Western Red Cedar	Thuja plicata	7	25	15	Good	Co-dominant	Young	Good	No	Yes	
105034	Western Red Cedar	Thuja plicata	4	25	15	Good	Co-dominant	Young	Good	No	Yes	
105034.1	Western Red Cedar	Thuja plicata	7	25	15	Good	Co-dominant	Young	Good	No	Yes	
105035	Western Red Cedar	Thuja plicata	6	25	15	Good	Co-dominant	Young	Good	No	Yes	
105036	Western Red Cedar	Thuja plicata	7	25	15	Good	Co-dominant	Young	Good	No	Yes	
105037	Western Red Cedar	Thuja plicata	7	25	15	Good	Co-dominant	Young	Good	No	Yes	
105038	Western Red Cedar	Thuja plicata	8	25	15	Good	Co-dominant	Young	Good	No	Yes	
105039	Western Red Cedar	Thuja plicata	6	25	15	Good	Co-dominant	Young	Good	No	Yes	
105040	Western Red Cedar	Thuja plicata	9	25	15	Good	Co-dominant	Young	Good	No	Yes	
105041	Western Red Cedar	Thuja plicata	9	25	15	Good	Co-dominant	Young	Good	No	Yes	
105042	Western Red Cedar	Thuja plicata	7	20	15	Poor	Co-dominant	Young	Poor	No	Yes	Dead top.
105043	Western Red Cedar	Thuja plicata	9	25	15	Good	Co-dominant	Young	Good	No	Yes	2 stems 7,5.
105044	Western Red Cedar	Thuja plicata	6	25	15	Good	Co-dominant	Young	Good	No	Yes	
105045	Western Red Cedar	Thuja plicata	7	20	15	Poor	Co-dominant	Young	Poor	No	Yes	Dead top.
105046	Western Red Cedar	Thuja plicata	/	20	15	Poor	Co-dominant	Young	Poor	No	Yes	Dead top.
105047	Western Red Cedar	Thuja plicata	7	20	15	Poor	Co-dominant	Young	Poor	No	Yes	Dead top.
105048 105049	Western Red Cedar Western Red Cedar	Thuja plicata	8	20 25	15 15	Poor Good	Co-dominant Co-dominant	Young Young	Poor Good	No	Yes Yes	Dead top. 2 stems 7,5.
105049	Western Red Cedar Western Red Cedar	Thuja plicata Thuja plicata	9	25	15	Good			Good	No No	Yes	2 STELLIS 1, 3.
105050	Western Red Cedar Western Red Cedar	Thuja plicata Thuja plicata	9	25	15	Poor	Co-dominant Co-dominant	Young Young	Poor	No	Yes	Thin crown.
105051	Western Red Cedar Western Red Cedar	Thuja plicata Thuja plicata	7	25	15	Good	Co-dominant Co-dominant	Young	Good	No	Yes	
105052	Western Red Cedar	Thuja plicata	8	25	15	Good	Co-dominant Co-dominant	Young	Good	No	Yes	2 stems 5,6.
105053	Western Red Cedar	Thuja plicata Thuja plicata	8	25	15	Good	Co-dominant Co-dominant	Young	Good	No	Yes	2 stems 5,6. 2 stems 4,7.
105054	Western Red Cedar	Thuja plicata	7	25	15	Good	Co-dominant Co-dominant	Young	Good	No	Yes	2 300113 4,1.
105055	Common Hawthorn	Crataegus monogyna	8	25	15	Fair	Co-dominant Co-dominant	Mature	Fair	No	Yes	
105057	Common Hawthorn	Crataegus monogyna	5	20	10	Fair	Co-dominant Co-dominant	Mature	Fair	No	Yes	
105057	Western Red Cedar	Thuja plicata	9	25	15	Good	Co-dominant	Young	Good	No	Yes	
105058	Western Red Cedar	Thuja plicata	9	25	15	Good	Co-dominant	Young	Good	No	Yes	
105060	Western Red Cedar	Thuja plicata	8	25	15	Good	Below Canopy	Young	Good	No	Yes	
105062	Western Red Cedar	Thuja plicata	6	25	15	Good	Below Canopy	Young	Good	No	Yes	
105062	Western Red Cedar	Thuja plicata	7	25	15	Good	Below Canopy	Young	Good	No	Yes	
105064	Western Red Cedar	Thuja plicata	6	25	15	Good	Below Canopy	Young	Good	No	Yes	1
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NO.	COMMON NAME	BOTANICAL NAME	DBH	HEIGHT	SPREAD	FORM	CROWN CLASS	AGE CLASS	TREE	REGULATED	GROVE	COMMENTS
									HEALTH			
105066	Western Red Cedar	Thuja plicata	9	25	15	Good	Below Canopy	Young	Good	No	Yes	
105067	Western Red Cedar	Thuja plicata	10	25	15	Good	Below Canopy	Young	Good	No	Yes	
105068	Western Red Cedar	Thuja plicata	10	25	15	Good	Below Canopy	Young	Good	No	Yes	
105069	Western Red Cedar	Thuja plicata	8	25	15	Good	Below Canopy	Young	Good	No	Yes	
105070	Western Red Cedar	Thuja plicata	7	25	15	Good	Below Canopy	Young	Good	No	Yes	2 stems 6,3.
105071	Western Red Cedar	Thuja plicata	8	25	15	Good	Below Canopy	Young	Good	No	Yes	
105072	Western Red Cedar	Thuja plicata	4	12	8	Poor	Below Canopy	Young	Poor	No	Yes	Dead top.
105074	Western Red Cedar	Thuja plicata	6	25	15	Good	Below Canopy	Young	Good	No	Yes	
105075	Western Red Cedar	Thuja plicata	6	25	15	Good	Below Canopy	Young	Good	No	Yes	
105076	Western Red Cedar	Thuja plicata	8	25	15	Good	Below Canopy	Young	Good	No	Yes	2 stems 7,3.
105077	Western Red Cedar	Thuja plicata	7	25	15	Good	Below Canopy	Young	Good	No	Yes	3 stems 5,3,3.
105078	Western Red Cedar	Thuja plicata	8	25	15	Good	Below Canopy	Young	Good	No	Yes	
105079	Western Red Cedar	Thuja plicata	7	25	15	Poor	Below Canopy	Young	Poor	No	Yes	Thin crown.
105080	Western Red Cedar	Thuja plicata	7	25	15	Good	Below Canopy	Young	Good	No	Yes	
105081	Western Red Cedar	Thuja plicata	6	25	15	Good	Below Canopy	Young	Good	No	Yes	
105085	Western Red Cedar	Thuja plicata	9	25	15	Good	Below Canopy	Young	Good	No	Yes	
105086	Willow	Salix sp.	9	30	30	Fair	Below Canopy	Semi-mature	Fair	No	Yes	
105087	Red Alder	Alnus rubra	6	25	15	Good	Below Canopy	Young	Good	No	Yes	
105088	Red Alder	Alnus rubra	6	25	15	Good	Below Canopy	Young	Good	No	Yes	
105089	Red Alder	Alnus rubra	5	25	15	Good	Below Canopy	Young	Good	No	Yes	
105090	Red Alder	Alnus rubra	4	25	15	Good	Below Canopy	Young	Good	No	Yes	
105091	Red Alder	Alnus rubra	7	25	15	Good	Below Canopy	Young	Good	No	Yes	
105092	Douglas Fir	Pseudotsuga menziesii	5	20	10	Poor	Below Canopy	Young	Poor	No	Yes	
105093	Douglas Fir	Pseudotsuga menziesii	8	25	15	Good	Below Canopy	Young	Good	No	Yes	
105094	Douglas Fir	Pseudotsuga menziesii	8	25	15	Good	Below Canopy	Young	Good	No	Yes	
105095	Douglas Fir	Pseudotsuga menziesii	7	25	15	Good	Below Canopy	Young	Good	No	Yes	
105097	Western Red Cedar	Thuja plicata	8	25	15	Good	Below Canopy	Young	Good	No	Yes	
105098.1	Red Alder	Alnus rubra	4	25	15	Poor	Below Canopy	Young	Poor	No	Yes	
105098.2	Western Red Cedar	Thuja plicata	4	25	15	Poor	Below Canopy	Young	Poor	No	Yes	

NO.	COMMON NAME	BOTANICAL NAME	DBH	HEIGHT	SPREAD	FORM	CROWN CLASS	AGE CLASS	TREE	REGULATED	SIGNIFICANT	GROVE	COMMENTS
									HEALTH				
13429	Western Red Cedar	Thuja plicata	24	35	20	Fair	Co-dominant	Mature	Very Poor	Yes	Yes	Yes	24" x 20' cavity from ground on S. side.
13432	Western Red Cedar	Thuja plicata	39	40	25	Good	Co-dominant	Semi-mature	Good	Yes	Yes	Yes	
13433	Western Red Cedar	Thuja plicata	29	40	30	Good	Co-dominant	Mature	Poor	Yes	Yes	Yes	7" x 6' cavity from ground on W. side.
13434	Western Red Cedar	Thuja plicata	29	40	30	Good	Co-dominant	Mature	Poor	Yes	Yes		6" x 20' cavity from ground on W. side.
13435	Bigleaf Maple	Acer macrophyllum	39	70	40	Good	Dominant	Mature	Good	Yes	Yes	Yes	2 stems 26,29.
13442	Western Red Cedar	Thuja plicata	31	80	30	Good	Dominant	Mature	Good	Yes	Yes	Yes	
13443	Grand Fir	Abies grandis	28	80	20	Fair	Co-dominant	Over-mature	Poor	Yes	Yes	Yes	4" x 24" cavity from ground on W. side.
13463	Grand Fir	Abies grandis	30	60	25	Fair	Co-dominant	Mature	Poor	Yes	Yes	Yes	Thin crown.
13464	Grand Fir	Abies grandis	29	60 90	25 50	Fair	Co-dominant	Mature	Fair	Yes	Yes	Yes	
13885.2	Oregon Ash	Fraxinus latifolia	27	90 70		Good	Dominant Co. dominant	Mature Somi moturo	Good	Yes	Yes	Yes	2 stoms 10 15
13886.1	Oregon White Oak	Quercus garryana	18	70	30 30	Fair	Co-dominant	Semi-mature	Fair	Yes	Yes	Yes Yes	2 stems 10,15.
13886.2	Oregon Ash	Fraxinus latifolia	21			Fair Good	Co-dominant Co-dominant	Mature	Fair	Yes	Yes		
13960 13960.1	Norway Maple	Acer platanoides Fraxinus latifolia	21 18	45 70	30 50	Fair		Mature Mature	Fair Good	Yes Yes	Yes Yes	Yes Yes	3" x 3' cavity from ground on S. side.
13960.1	Oregon Ash		25	40'			Dominant						3 stems 13,11,7.
13992.1	Western Red Cedar Oregon White Oak	Thuja plicata	25 34	40 90	40' 60	Fair Good	Co-dominant	Semi-mature	Poor Good	Yes Yes	Yes Yes	Yes Yes	Topped. 3 stems 27,15,15.
13992.4	Giant Sequoia	Quercus garryana Sequoiadendron giganteum	34	90 50	35	Good	Dominant Dominant	Mature Mature	Good	Yes	Yes	Yes	3 Stems 27, 15, 15.
	Red Oak			55	50					Yes			
14168		Quercus rubra Platanus × acerifolia	25 30	50	50	Good Fair	Dominant Dominant	Mature Mature	Good Fair		Yes Yes	Yes Yes	
14171	London Planetree Oregon White Oak		21	50	45	Good			Good	Yes		Yes	2" x 6" cavity at ground on E side.
14180 14191	Oregon White Oak	Quercus garryana Quercus garryana	21	50 45	45	Good	Dominant Dominant	Mature Mature	Good	Yes Yes	Yes Yes	No	
14191	Oregon White Oak		28	45	45 35	Good	Dominant	Mature	Good	Yes	Yes	Yes	
14245	5	Quercus garryana Quercus garryana	30	45 55	40	Verv Good	Dominant	Mature	Verv Good	Yes	Yes	No	
14252	Oregon White Oak Giant Seguoia	Sequoiadendron giganteum	30	55 60	40 35	Good	Co dominant	Mature	Good Good	Yes	Yes	Yes	
14254	Oregon White Oak	Quercus garryana	39	60	50	Good	Dominant	Mature	Good	Yes	Yes	Yes	
14349	Western Red Cedar	Thuja plicata	42	80	40	Fair	Dominant	Mature	Good	Yes	Yes	Yes	
14300	American Sweetgum	Liquidambar styraciflua	31	95	40	Fair	Dominant	Mature	Fair	Yes	Yes	No	
14378	European White Birch	Betula pendula	19	65	40	Poor	Dominant	Mature	Poor	Yes	Yes	Yes	Thin crown.
14416	Giant Sequoia	Sequoiadendron giganteum	43	80	40	Fair	Dominant	Mature	Good	Yes	Yes	No	2 stems 27,30
14421.3	Giant Sequoia	Sequoiadendron giganteum	43 59	95	40	Good	Dominant	Mature	Good	Yes	Yes	Yes	2 3(6)(3 27,50
14479	Giant Sequoia	Sequoiadendron giganteum	49	110	50	Good	Dominant	Mature	Good	Yes	Yes	Yes	
14480	Oregon White Oak	Quercus garryana	22	55	30	Fair	Co dominant	Mature	Poor	Yes	Yes	Yes	3" x 14" cavity from 1' above ground on W side.
15502	Grand Fir	Abies grandis	37	40	20	Fair	Single Tree	Mature	Poor	Yes	Yes	Yes	Broken top.
15584	Bigleaf Maple	Acer macrophyllum	23	90	60	Fair	Dominant	Mature	Fair	Yes	Yes	Yes	
15585	Oregon Ash	Fraxinus latifolia	24	80	45	Good	Dominant	Mature	Good	Yes	Yes	Yes	
15602	Bigleaf Maple	Acer macrophyllum	17	70	35	Good	Dominant	Semi-mature	Good	Yes	Yes	Yes	
15606	Bigleaf Maple	Acer macrophyllum	28	90	50	Fair	Dominant	Over-mature	Very Poor	Yes	Yes	Yes	24" x 36" cavity from ground on N. side.
15610	Bigleaf Maple	Acer macrophyllum	29	75	45	Fair	Dominant	Mature	Fair	Yes	Yes		· · · · · · · · · · · · · · · · · · ·
15616	Bigleaf Maple	Acer macrophyllum	30	80	45	Good	Dominant	Mature	Good	Yes	Yes	Yes	
15618	Western Red Cedar	Thuja plicata	42	60	40	Good	Dominant	Mature	Good	Yes	Yes	Yes	
15619	Western Red Cedar	Thuja plicata	18	55	30	Good	Dominant	Semi-mature	Good	Yes	Yes	Yes	

Appendix 5--4260 Kenthorpe Wy, 4245, 4305 & 4315 Mapelton Dr. Significant Trees

Appendix 6--4260 Kenthorpe Way, 4245, 4305 & 4315 Mapleton Dr. Significant Trees To Be Removed

NO.	COMMON NAME	BOTANICAL NAME	DBH	HEIGHT	SPREAD	FORM	CROWN CLASS	AGE CLASS	TREE	REGULATED	SIGNIFICANT	GROVE	COMMENTS
									HEALTH				
13960	Norway Maple	Acer platanoides	21	45	30	Good	Co-dominant	Mature	Fair	Yes	Yes	Yes	3" x 3' cavity from ground on S. side.
14245	Oregon White Oak	Quercus garryana	20	45	35		Dominant	Mature	Good	Yes	Yes	Yes	
14252	Oregon White Oak	Quercus garryana	30	55	40	Very Good	Dominant	Mature	Very Good	Yes	Yes	No	
14254	Giant Sequoia	Sequoiadendron giganteum	39	60	35	Good	Co dominant	Mature	Good	Yes	Yes	Yes	
14349	Oregon White Oak	Quercus garryana	30	60	50	Good	Dominant	Mature	Good	Yes	Yes	Yes	
14366	Western Red Cedar	Thuja plicata	42	80	40	Fair	Dominant	Mature	Good	Yes	Yes	Yes	

Significant Trees to be removed (Amended August 8, 2012)

The West Linn Arborist determined that there are 42 significant trees on site. The proposal will remove up to six significant trees leaving 36 (85.7%) of the significant trees on site and protected. Efforts will be made to protect and, if possible, save trees these significant trees, as described below.

	Inventory Number	Common Name	Dbh inches	Reason for removal
1	13960	Norway Maple	21	The site design collapses the processing facilities into the center of the site and the required bi-directional truck route encircles the processing facilities. Consequently, there is insufficient turning radius for truck to enter or exit the processing plant unless one tree is removed at the bend of the driveway.
2	14245	Oregon White Oak	20	The site design incorporates a pedestrian walkway and screening fence at this site. In addition, plant front end loaders must move from the settling ponds to the west. To accommodate the pedestrian and on-site vehicle movement this tree must be removed.
3	14252	Oregon White Oak	30	The 30-foot deep clearwell will be located immediately to the west of this tree. Consequently, because of the need to move equipment around the excavation and the need to shore up the walls of the clearwell, the Lake Oswego Arborist determined that it is unlikely that this tree will survive the construction activity. During final design applicant will investigate measures to protect these trees using standard tree protection techniques (standard root and foliage protection methods), and minor shoring (up to three feet below existing ground surface adjacent to project excavations) to retain insitu soils in tree root zones. Applicant will not be required to consider more protracted shoring measures. Investigated measures will be summarized in a memorandum submitted to the West Linn arborist.
4	14254	Giant Sequoia	39	The 30-foot deep clearwell will be located immediately to the west of this tree. Consequently, because of the need to move equipment around the excavation and the need to shore up the walls of the clearwell, the Lake Oswego Arborist determined that it is unlikely that this tree will survive the construction activity. During final design applicant will investigate measures to protect these trees using standard tree protection techniques (standard root and foliage protection methods), and minor shoring (up to three feet below existing ground surface adjacent to project excavations) to retain insitu soils in tree root zones. Applicant will not be required to consider more protracted shoring measures. Investigated measures will be summarized in a memorandum submitted to the West Linn arborist.
5	14349	Oregon White Oak	30	Summarized in a memorandum submitted to the West Linn arborist. The project designers had two choices for constructing the 3 million gallon clearwell. They could build an above ground water reservoir, potentially exceeding the zone height restrictions and permanently occupying what is now open space, or bury the reservoir. To minimize visual impacts on the neighborhood and to provide open space on site for local enjoyment, the Sponsors selected the clearwell option. The designers considered multiple options for the clearwell but all locations would impact a significant tree. Consequently, this tree will be removed because it would not survive the impacts from the selected layout.
6	14366	Western Red Cedar	42	Same as #5





Technical Memorandum

Final

Date: August 9, 2012

Prepared for: Lake Oswego-Tigard Water Partnership

- Subject: Water Treatment Plant –City of West Linn Significant Tree Mitigation
- To: Eric Day, Lake Oswego
- From: Ethan Rosenthal, Project Manager-Ecologist David Evans and Associates, Inc.
- Prepared by: Ethan Rosenthal, Ecologist, David Evans and Associates, Inc.
- Reviewed by: Eric Eisemann J.D., E2 Land Use Planning Services, LLC.
- Copies to: Terry Buchholz, Integrated Water Solutions, LLC





Introduction

This report has been prepared in support of a City of West Linn (City) land use application for the Lake Oswego-Tigard Water Partnership Project (Project) water treatment plant (WTP). The cities of Lake Oswego and Tigard propose to expand and improve the existing water collection, transmission, and treatment system of Lake Oswego to meet increasing future water demand of both cities. The overall Project lies primarily within Clackamas County, Oregon with a small portion lying within Washington County, Oregon. The project extends approximately 10 miles from the river intake pump station on the Clackamas River in Gladstone, Oregon through West Linn and Lake Oswego to the Bonita Pump Station located in Tigard, Oregon.

This technical memorandum specifically concerns proposed work at the WTP in West Linn, Oregon. The purpose of this memorandum is to document impacts to "significant trees" and proposed mitigation for the loss of these trees.

The following West Linn Code (WLC) items were reviewed:

- West Linn Tree Removal
- West Linn Community Tree Ordinance
- West Linn Tree Technical Manual

Methods

The following steps were conducted to determine significant tree mitigation:

- All trees on-site were professionally land surveyed by West Lake Consultants, Inc.
- The project arborist and West Linn arborist collaborated to determine which trees are "significant." [Note: West Linn code does not specifically define "significant tree."]
- Project designers reviewed opportunities to minimize impacts to significant trees to the greatest extent practicable.
- Site development plan was overlaid with significant tree mapping to determine significant trees impacted (also total trees impacted).
- Mitigation requirements are not clearly specified in WLC. The mitigation ratio used to determine significant tree replacement needs is based on pre-application meeting notes between the project planner and West Linn planning department. Specifically, mitigation was determined based on a one to one ratio of DBH impacted to mitigated.
- Greenworks developed site landscaping plan, which incorporates significant tree mitigation needs.

Significant Tree Impacts

Based on the methods described above, a total of 42 significant trees were identified on-site. Of these, six significant trees will be removed and therefore require mitigation. Mapping of tree removal has been provided as part of the land use application package. Table 1 provides a summary of the significant trees that will be removed. The combined DBH for these trees is182 inches.

	Table 1. Significant Trees Impacted by Project							
Tree #	Common Name	Botanical Name	Diameter at Breast Height (DBH, inches)					
13960	Norway Maple	Acer platanoides	21					
14245	Oregon White Oak	Quercus garryana	20					
14349	Oregon White Oak	Quercus garryana	30					
14366	Western Red Cedar	Thuja plicata	42					
14252	Oregon White Oak	Quercus garryana	30					
14254	Giant Sequoia	Sequoiadendron giganteum	39					
	TOTAL DBH		182					

Significant Tree Mitigation

Based on the 182 inches of significant tree DBH removal, mitigation will require 182 inches of DBH replacement. The project proposes conducting this replacement by planting 91 sapling trees at 2 inch caliper per tree for a total of 182 inches. In addition to the 91 trees needed for significant tree mitigation, an additional 197 trees will also be planted. This will result in a total of 288 trees being planted on-site. Although the final tree count is subject to minor changes, the 91 trees to be planted for significant tree mitigation will not change.

Detailed planting plans, including a plant schedule noting number of each species to be planted, are provided as part of the land use application package.