

**Town of Yountville**  
**Hopper Creek Tree Assessment**  
**October 2008**

**Prepared for**  
**Town of Yountville**  
**Myke Praul, Public Works Director/Town Engineer**  
**6550 Yount Street**  
**Yountville, CA 94599**

**Prepared by**  
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**226-2884**



October 16, 2008

Myke Praul  
Town of Yountville  
6550 Yount Street  
Yountville, CA 94599

## Arborist Report

Re: Hopper Creek Tree Assessment

### Summary

A survey of trees along the Hopper Creek corridor from Highway 29 to Finnell Road was conducted between September 24 and October 14, 2008. The primary concerns were public safety issues, health needs for the trees and the identification of trees that would be suitable nominees for numbered Heritage Tree status.

The survey identified 45 trees that require work as soon as possible:

- Removals: trees #18, 19, and 83.
- Root collar clearing or excavation, and examination: 33 trees.
- Drill examination: Tree #122.
- Aerial exam: Trees #11 and 20.
- Pruning: 18 trees.
- Cabling: Tree #11 (check old cable), #62, install a cable system.

A particularly large specimen valley oak (#93) growing on the bank by Hopper Creek Village is addressed in a separate report.

A vegetation management plan is recommended in the interest of tree health and erosion protection. Specifics of such a plan are beyond the scope of the survey.

Thirty four native oaks in the Hopper Creek corridor are recommended for nomination as numbered Heritage Trees.

## Assignment

Myke Praul, Public Works Director / Town Engineer for the Town of Yountville, requested that I perform a visual assessment of the trees growing along Hopper Creek between Highway 29 and Finnell Road. The purpose of the examinations and report is as follows:

- Identify immediate safety issues that should be addressed this year (Priority One)
- Make Priority One recommendations regarding health needs for individual trees.
- Make recommendations for over-all tree health and root zone management, including Priority Two and Three work.
- Identify trees that would be suitable nominees for Heritage tree status.

## Methods

I made observations from ground level, using a tree diameter tape to measure trunk diameters where they were accessible. Walking the creek bottom and the Hopper Creek recreation path, I used a measuring wheel to record tree locations in relation to bridges that cross Hopper Creek. Tree locations are described in the text and recorded on a map, scaled 1"/100'. The trees are not tagged in the field. I did not excavate root collars or drill to test for decay except for one tree (#93)

Tree numbers begin with #1 near Highway 29, ending with #126 at Finnell Road. The survey includes trees with trunk diameters of about 12" and larger. Seven trees that are Yountville Heritage Trees are cross-referenced in the report and on the map with their Heritage Tree numbers.

## Hazard Rating

To assist with prioritizing work, I used cursory visual assessment data to assign a Hazard Rating Score for each tree.

The score is the sum of three components. Each component receives a score of 1, 2, or 3. Higher numbers indicate higher risk. The minimum Hazard Rating score is 3 and the maximum is 9. The components are:

- **Failure Potential**, the apparent likelihood that a tree will fail. Many of the larger, older oaks receive a "2" not because of observed defects, but because of the likelihood of hidden defects in older oaks.
- **Size of Part** that is likely to fail. "3" indicates a large whole tree or large limbs.
- **Target**. "3" indicates a permanent target such as a house, active parking area or busy thoroughfare. "2" indicates an intermittently occupied area, such as the recreation path.

The Hazard Rating Score is intended as a guide for prioritizing work, not as a detailed individual tree examination. In some cases, trees with lower Hazard Ratings receive a higher Priority.

## Observations

I made the following field observations between September 24 and October 14. They are given in the attached tree survey reports in numerical order and in order of priority.

**Exotic pest plants** are present in significant portions of the creek bed and banks. Periwinkle (*Vinca major*) a species that is particularly detrimental to native oak trees, dominates oak root zones or covers the root collars of seven trees (2, 50, 73, 77, 78, 79, 85).

Algerian ivy (*Hedera canariensis*) covers the root zone or trunks of four trees (24, 25, 34, 35)

Two trees have other vines growing high into the canopies (43 and 99).

Himalayan blackberry (*Rubus discolor*) covers extensive portions of the creek banks and the tree root zones. For many of the trees, blackberry thickets prevented visual examination of root collars.

**Erosion** has exposed buttress roots and is undermining the roots of 16 trees (1, 27, 30, 31, 32, 33, 48, 50, 56, 77, 85, 86, 107, 112, 119, 122). The erosion is generally moderate. Of the 16 trees, tree #1 shows the greatest degree of root exposure. The trunk is still vertical. None show current signs of imminent failure.

### Buried and Covered Root Collars

Thirty three trees have the root collars either buried by eroded soil and accumulated natural litterfall, or hidden by vegetation. (#6, 20, 21, 25, 32, 35, 37, 39, 43, 50, 51, 63, 71, 75, 77, 78, 81, 82, 84, 85, 86, 95, 95, 96, 98, 99, 104, 120, 121, 125, 126). The health and structural condition of the root collars of these trees is not known at this time. A few of these are trees that lean sharply. The condition of their buttress roots is not known.

### Dead and Dying Trees and Trees with Significant Structural Problems

No standing dead trees were observed. A few trees show very poor vigor (83, 120, 121). These appear in Priority One recommendations.

Two large valley oaks show evidence of extensive decay: Valley oak #93, which is discussed in a separate report (dated 10/9/08), and #122, which is included in Priority One recommendations for further examination.

Sixteen trees show a significant degree of lean with a high risk target nearby (#7, 16, 18, 19, 30, 37, 39, 50, 55, 71, 94, 95, 98, 104, and 106). These are included in Priority One for root collar or buttress root examinations.

Three trees show severe problems that would justify removal (# 18,19 and 83).

## **(Observations cont.)**

### **Dead or long, heavy branches over targets**

Eighteen trees have dead branches or branches that are heavy with foliage and wood weight over potential targets (#5, 6, 7, 11, 16, 20, 30, 50, 71, 75, 77, 78, 104, 106, 120, 121, 125, 126).

One tree, #11, has a cable that was installed for structural support. The condition and tension of the hardware and cable is not known. Another tree, #62, a large, double trunk valley oak, has signs of a weak attachment of the two trunks, with no current signs of imminent failure.

### **Heritage Trees**

Seven trees are already registered as Yountville Heritage Trees. They are as follows. The number in parentheses is the Heritage Tree #: 2 (81), 3 (77), 40 (147), 41 & 42 (220), 63 (75), 125 (134), 126 (133).

Thirty four trees exhibit characteristics such as good placement, good health and structure that make them good candidates for status as Heritage Trees: # 21, 32, 35, 36, 37, 43, 47, 49, 52, 58, 66, 67, 82, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 96, 97, 99, 100, 101, 102, 104, 105, 110, and 111.

## **Discussion**

### **Exotic pest plants**

Periwinkle is directly harmful native oaks. Dense masses compete with the fine absorbing roots of the oaks for air, water and minerals. Ivy does this as well, but it also climbs the tree trunks, hiding structural problems. It eventually grows out onto the branches, shading and suppressing tree foliage.

Himalayan blackberries also compete with the oaks, but not as aggressively as Vinca since they do not form tight surface mats. All three of these prominent pest plants tend to crowd out native plants that are more compatible with the oaks. Vinca also provides habitat and a food source for the blue green sharpshooter, an insect vector that infects grape vines with Pierce's disease.

Aside from the negative effects of pest plants, they do tend to stabilize creek banks by preventing erosion. Efforts to remove them should be coordinated with replanting of more desirable native plants.

### **Erosion**

Native oaks in combination with under-story plants tend to slow erosion. When banks are slowly eroded and tree roots are slowly undermined, oaks tend to live and remaining standing for a great many years. Minor erosion and exposed buttress roots are not necessarily a cause for immediate concern. Trees should be monitored annually for signs of instability.

**(Discussion cont.)****Buried and Covered Root Collars**

The root collar - the base of the tree where the trunk flares out into the buttress roots - is a critical juncture in the tree. It is critical to tree health because all water and minerals conducted by the roots must pass through it into the trunk. When it is buried or tightly covered with incompatible vegetation, the normal process of gas exchange is impeded, leading to stress, tissue death and disease in the tree.

The root collar is also a critical component of tree structure. Defects and signs of decay that may indicate structural instability are often exhibited at the base of the trunk.

For those reasons, an initial visual examination is a critical aspect of tree assessment.

When warning signs are present, such as a severe lean or a change in lean, or when the natural grade of a root collar has been buried by fill soil or the natural accumulation of eroding soil on slopes, it is often necessary to excavate the root collar back to the natural grade. This, in itself, tends to be good therapy for trees.

When structural instability in the buttress roots is suspected, it may be necessary to excavate deeper to allow for examination.

**Dead and Dying Trees and Trees with Significant Structural Problems**

Dead, dying and unstable trees are a natural part of a woodland setting along a creek. Hopper Creek runs through the town, with numerous potential targets nearby. Therefore, tree management decisions should be prioritized with respect to public safety. At the same time, it is a naturally occurring and self sustaining system, valued by the community for its wild, natural beauty. It should not be overly managed nor maintained as a formal garden.

Cable systems, which are commonly installed for structural support, should be installed only when no other alternative is available and after pruning has been performed to adjust weight and windsail. After a cable system is installed the hardware and the cable tension should be inspected every three years.

**Heritage Trees**

The Town of Yountville *Resolution Number 1965-02* defined a Heritage Tree as “*any native oak tree, 20” in circumference or greater...*” In 1995-96, the Heritage Tree Committee performed a survey, establishing 260 oaks as numbered Heritage Trees. The *Resolution* states that “*Heritage Trees include, but are not limited to, all trees shown on the Heritage Tree Survey.*”

Since that time, some of the numbered Heritage Trees have had to be removed, while others, unknown in number, have increased in circumference upward of 20”.

For the Hopper Creek tree assessment I examined trees with trunk diameters of about 12" and larger (about 36" circumference), i.e. large enough to be of concern with respect to public safety. I identified 34 trees for nomination as numbered Heritage Trees. There are additional smaller native oaks between 20" and 36" circumference in the creek corridor, which could be added to the list of numbered Heritage Trees if the Town so wishes.

## Conclusions

### Immediate safety issues

Two large valley oaks, (#93 and #122) show evidence of extensive decay and a high potential for the failure of the whole tree or large limbs onto a significant target. Tree #93 is addressed in a separate report. The hazard potential of tree #122 can be better determined through further examination.

Sixteen trees have trunks leaning over or toward significant targets. Root collar and buttress root excavation and examination would help to better determine the risk of failure.

Eighteen trees that have dead branches or long heavy branches over targets should be pruned to reduce the risk of property damage or injury.

One tree (#11) has a cable system that should be checked. Another (#62) has weakly attached trunks that should be cabled together.

### Health needs for individual trees

Buried root collars are detrimental to tree health and they impede visual examination. Thirty three trees have root collars buried or covered with vegetation. These should be excavated back to the natural grade and examined for signs of disease and decay.

Erosion tends to slowly remove soil that the trees need as a source of minerals and moisture, and it affect the anchorage of trees on stream banks. Sixteen trees show signs of various stages of erosion around or under the roots. None are currently at a critical stage. Appropriate vegetation management and monitoring will help to prevent tree failures and to conserve soil in tree root zones.

No rampant insect pests or diseases were observed that would call for intervention measures.

Invasive pest plants, *Vinca major* in particular, contribute to stress in native oaks. These should be cleared away from tree root collars at the very least, and preferably removed entirely from tree root zones.

There are no standing dead trees. Only 3 trees show very poor health.

**Over-all tree health and root zone management**

Tree health on a large scale in a natural setting is best addressed by reducing the more manageable stress factors, while interfering with the naturally self sustaining system no more than is necessary. Maintaining root collars at their natural grades and minimizing erosion will tend to facilitate good health in the trees.

**Heritage Trees** should be added to the Town's survey list and map of numbered Heritage Trees on an ongoing basis as individual trees attain significant size. Thirty four good nominees were identified in the survey.

**Recommendations**

1. Perform all Priority One work as described in the attached *Tree Survey Report* as soon as possible. Perform Priority Two and Three work in 2009 and 2010. The tree service contractor should work under close supervision by the Town. Root collar and buttress root excavations should be performed when the soil is moist. Cooperation and approval from the California Department of Fish and Game will be necessary where excavation or tree removals are recommended on the stream bank or in the creek bed.

Monitor all trees in the Hopper creek corridor annually, and update recommendations as needed.

2. With the approval of the Department of Fish and Game, develop a vegetation management plan to remove exotic pest plants, to replant with oak-compatible native plants, and to minimize erosion.

3. Approve the 34 new nominees for designation as numbered Heritage Trees. Provide direction as to the Town's preference for designating smaller trees as numbered Heritage Trees. Numbered Heritage Trees would then be tagged in the field and added to the map of Heritage Trees as soon as possible.

Prepared by:

Bill Pramuk  
Registered Consulting Arborist #409

Attached:

Tree Survey Report by Number  
Tree Survey Report by Priority  
Map



**TREE SURVEY HAZARD REPORT (BY NUMBER) FOR: TOWN OF YOUNTVILLE  
HOPPER CREEK TREE ASSESSMENT**

PRI = PRIORITY / FPOT = FAILURE POTENTIAL / SIZE = SIZE OF PART / TRGT = TARGET / HAZ RAT = HAZARD RATING

#	SPECIES	LOCATION	COMMENTS	PRI	DBH	RECOMMENDATIONS					
						ROOT COLLAR	VIGOR	FPOT	SIZE	TRGT	HAZ RAT
1	Q. agrifolia	Perched on south bank, 126' upstream from Washington Street	3/4 root system exposed	3	16"	eroded	Good	1	2	1	4
2	Q. lobata	52' upstream from Washington Street	Vinca in root zone. Scattered dead branches	3	30"	At grade	Fair	1	3	1	5
3	Q. agrifolia	26' downstream from Washington St.	Tagged Heritage Tree #77. Accumulated dead inner branches.	3	28"	Buried	Good	1	2	2	5
4	Q. lobata	57' downstream from Washington St.	57' downstream from Washington St. Minor erosion. Few dead branches	3	21.3	At grade	Fair	1	2	2	5
5	Q. lobata	6' down bank from #4.	Root collar in rocks. Crowded & arching toward house.	3	14.4	At grade	Good	1	2	1	4
8	English walnut	Near bottom of creek across from #7	Trunk leans toward house.	3	19.4"	At grade	Good	1	2	3	6
10	Black walnut	Mid-bank across from #9		3	5"-8" multi	Covered	Good	1	1	1	3
11	Q. lobata	15' north of #10	Cabled codominant trunks. Two houses under canopy. Dead branches to 6" diameter.	1	46.7"	At grade	Fair	2	3	3	8
12	Q. agrifolia	Upper bank, east and across creek from #11	Fence & creek under canopy.	3	16"	Covered	Good	1	1	1	3
13	Q. agrifolia	20' north of #11; 212' upstream from Jefferson bridge	Long branches very low over roof. Recently pruned and propped.	2	30"	At grade	Good	1	2	3	6
14	Q. agrifolia	10' north east of #12	Trunk horizontal/resting on ground	3	24"	Covered	Good	1	1	1	3
15	Eucalyptus	176' up stream from Jefferson bridge.	176' upstream from Jefferson St. Recently topped down to 30'.	3	60" approx.	At grade	Good	1	1	1	3
16	Eucalyptus	25' east of #15	Dead strip whole length of trunk. House under canopy	1	15.9"	Covered	Fair	2	2	3	7



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17	Eucalyptus	4' east of #16	Recently reduced. Branches over roof.	2	24"	Covered	Fair	2	2	3	7
18	Black walnut	bottom of creek, 137' upstream from Jefferson bridge	See report 9/21/07	1	19.3"	At grade	Good	2	3	3	8
19	Eucalyptus	113' upstream from Jefferson bridge.	Curving trunk; top is over roof. See report 9/21/07	1	24"	Covered	Good	2	3	3	8
20	Q. lobata	80' upstream from Jefferson bridge	Trunk vertical. Large limb over roof.	1	28"	Covered	Fair	1	3	3	7
21	Q. lobata	25' upstream from Jefferson	Root collar buried on uphill side. Two houses, street and bridge under canopy	1	48"	Covered	Fair	2	3	3	8
22	Q. lobata	Perched on south bank, 23' from east side of bridge.	Street, bridge, private parking and garage under canopy.	1	36"	At grade	Fair	2	3	3	8
23	Oregon ash	Mid bank, 53' downstream from Jefferson St.	Crowded by adjoining trees. Garage under canopy.	2	25.1"	Buried	Fair	2	2	1	5
24	Q. lobata	Top of north east bank, 66' downstream from Jefferson St.	Trunk covered with ivy to 30'.	2	18"	Covered	Good	2	2	1	5
25	Q. lobata	4' north east of #24	Lower trunk covered with ivy.	1	16"	Covered	Good	2	2	1	5
26	Q. lobata	18' south east of #25	Trunk arches over creek.	3	12"	Covered	Fair	1	1	1	3
27	Box elder (Acer)	Top of south bank, 138' downstream from Jefferson bridge	Erosion has undermined roots. Storage shed under canopy.	3	36"	At grade	Fair	2	2	1	5
28	Q. lobata	131' downstream from Jefferson bridge.	House under canopy. Codominant trunks.	3	24"	At grade	Good	2	2	3	7



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				PRI	DBH	ROOT COLLAR	VIGOR	FPOT	SIZE	TRGT	HAZ RAT
29	Q. lobata	5' east of #28	Trunk leans slightly over creek.	3	14"	At grade	Good	1	2	1	4
30	Q. lobata	154' downstream from Jefferson bridge	Roots exposed by erosion. Larger trunk leans over house.	1	24",12"	At grade	Fair	2	2	3	7
31	Q. lobata	Top of bank, 175' downstream from Jeffersn bridge.	Buttress roots exposed by erosion. Long spiral wound in trunk. Back yard / storage shed under canopy.	3	42"	At grade	Fair	2	2	2	6
32	Q. lobata	Top of north bank, 193' downstream from Jefferson bridge.	Erosion beginning to undermine roots 3 feet from trunk.	1	26"	Buried	Good	2	3	3	8
33	Q. lobata	Upper south bank, 40' east of #32.	Buttress roots exposed by erosion. Decay in trunk where it failed. New leader 12" diameter.	3	24"	At grade	Good	1	2	1	4
34	California	across creek from #33	Ivy over root collar.	3	12"	Covered	Good	1	1	1	3
35	Q. lobata	140' upstream from Yount Street bridge	Trunk covered with ivy to 40'. Four codominant trunks. Limbs over roof.	1	70.5"	Covered	Fair	2	3	3	8
36	California bay	35' north east of #34	Trunk covered with ivy. Houses near canopy on both sides of creek.	2	28"	Covered	Good	2	3	3	8
37	Q. lobata	6641 Yount, 83' upstream form Yount Street bridge.	Trunk leans 20 degrees north east. Shrub border and private patio under canopy.	1	35"	Buried	Fair	2	3	2	7
38	Q. lobata	Upper bank, 40' north east of # 37	Crowded by adjoining trees. Top arches over creek.	2	19.2"	Buried	Fair	2	2	2	6
39	Q. lobata	35' south west of Yount Street bridge.	Trunk leans 15 degrees toward house. Most of canopy on south side over house and patio.	1	41"	Buried	Good	2	3	3	8
40	Q. lobata	11' south west of Yount Street bridge.	Tagged Heritage Tree #147. Codominant tops, 20" diameter. House under canopy.	1	31"	Buried	Poor	2	3	3	8



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41	Q. agrifolia	6641 Yount Street. Heritage Tree #220. recently pruned.		2	18.8"	Covered	Good	2	2	3	7
42	Q. agrifolia	6641 Yount Street adjoining #41 Heritage Tree 220A. recently pruned.		2	19.3"	Covered	Good	2	2	3	7
43	Q. lobata	Upper north east bank, 10' north east of Yount Street bridge. Large banksia rose climbing high in canopy. Bridge and parking area under canopy.		1	40"	Buried	Good	2	3	3	8
44	Q. lobata	6' north of Heritage Tree #146 Trunk leans over rec. path and garage.		3	14"	Buried	Good	1	1	2	4
45	Q. lobata	4' north of #44. Leaning over rec. path.		3	12"	Buried	Fair	1	1	2	4
46	Black walnut	By paved parking, 30' north east of Yount Street bridge. Topped to 15'. New tops now 30'.		3	18"	Buried	Good	1	1	2	4
47	Q. lobata	By rec. path, 51' east of Yount Street bridge Top arches over garage.		2	22.7	Buried	Good	1	2	3	6
48	Q. lobata	Mid-bank, 20' north of #47 Erosion undermining roots. Few dead branches.		2	12"	Covered	Fair	1	1	1	3
49	Q. lobata	1' from rec path, directly up slope form #48 Few small dead branches.		2	18"	Buried	Fair	1	1	2	4
50	Q. lobata	39' east of #49, 12' downslope from rec. path. Root collar covered with Vinca. Erosion undermining roots. Trunk leans 30 degrees south over path, fence, and Hopper Creek Village property.		1	28.2"	Buried	Fair	2	3	2	7
51	Q. lobata	6' up slope and east of #50 Canopy arches over rec. path, fence and Hopper Creek Village property.		1	19.7"	Buried	Good	2	2	2	6
52	Q. lobata	120' north east of Yount St. bridge. Both trunks arch over path.		3	11.3",6"	Buried	Good	1	1	2	4



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53	Q. lobata	140' from Yount St. bridge, 14' downslope from rec. path.		1	30.9"	Buried	Fair	2	3	3	3	8	Excavate and examine root collar. Monitor.
54	Q. lobata	3' down slope from #53 Tops dead and failed.		3	18"	Covered	Poor	2	2	1	1	5	Examine root collar. Monitor.
55	Q. agrifolia	3' north of #54; 146' from Yount Street bridge.		1	18.8"	Covered	Good	2	2	2	2	6	Check prop and footing in one year.
56	Q. lobata	170' from Yount Street bridge, 20' downslope from path		3	34.7"	Covered	Fair	2	3	2	2	7	Erosion starting to undermine roots. Canopy over creek.
57	Q. lobata	7' north of #56. Canopy over creek.		3	18"	Covered	Fair	2	3	2	2	7	Excavate and examine root collar.
58	Q. lobata	189' from Yount Street bridge. 16" diameter limb recently removed. Canopy over path and back yards at Hopper Creek Village.		2	21.4", 21"	Buried	Good	2	2	2	2	6	Excavate and examine root collar. Prune for 25% tinning over back yards. Nominate as a Heritage Tree.
59	Oregon white	227' from Yount Street bridge, 8' down slope from path. Crowded by adjoining trees. Canopy arches over path and back yards.		3	14"	Covered	Good	1	2	2	2	5	Excavate and examine root collar. Monitor.
60	Q. lobata	230' from Yount Street bridge., 18' down slope from path. Most of canopy over creek.		3	14"	Covered	Good	1	2	2	2	5	Excavate and examine root collar. Monitor.
61	Oregon white	240' from Yount Street bridge, 18' down slope from path. Canopy arches over path and back yards.		3	18"	Covered	Good	1	2	2	2	5	Excavate and examine root collar. Prune for 25% thinning over back yards.
62	Q. lobata	North west side of creek at 1951 Mount Ave. Heritage tree #75B. See report 9/25/07. Two trunks weakly attached.		1	40.2", 31.8"	Low	Good	2	3	1	1	6	Install cable system to include codominant trunks.
63	Q. lobata	1951 Mount Heritage Tree #75. Limbs arch over roof. Trunk leans toward house.		1	39"	At grade	Good	2	3	3	3	8	Excavate and examine buttress roots.
64	Q. lobata	8' east of 63 Canopy over creek.		3	12"	Covered	Good	1	1	1	1	3	Examine root collar.



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65	Q. lobata	330' from Yount St. bridge.		2	18"	Covered	Fair	2	2	2	2	6	See report 9/25/07. Trunk leans over creek and path. Rcently pruned. Monitor.
66	Q. lobata	Top of bank, 351 from Yount Street bridge.		3	14"	Covered	Good	1	2	1	1	4	Previously crowded by large oak that was removed this year. Examine root collar. Nominate as a Heritage Tree.
67	Q. lobata	5' from rec path, 360' from Yount Street bridge.		3	13.2"	Covered	Good	1	2	2	2	5	Previously crowded by large oak that was removed. Examine root collar. Nominate as Heritage Tree.
68	Q. lobata	At edge of path, 5' from footbridge, 398' from Yount Street bridge.		3	13.9"	Buried	Good	1	2	2	2	5	Branches over bridge, path and back yard. Examine root collar. Nominate as Heritage Tree. Excavate and examine root collar.
69	Willow (Salix)	By foot bridge, 3' from path.		3	6"-8" multi	Covered	Good	2	2	2	2	6	Trunk leans over rec. path. Examine root collar. Monitor.
70	Q. lobata	Top of north bank by park lawn.		2	11", 14.5"	Buried	Good	2	2	2	2	6	Branches arch over lawn. Excavate and examine root collar.
71	Q. lobata	4' south east of #70		1	12.5"	Buried	Good	3	2	2	2	7	Trunk leans sharply west toward footbridge. Excavate root collar and buttress roots. Examine. If sound, prune for 50% thinning.
72	California	Adjoining #71		3	4"-6" multi	Covered	Fair	1	1	1	1	3	Monitor
73	Q. lobata	1' east of #71.		3	16.6"	Covered	Poor	2	2	1	1	5	Vinca in root zone. Dead branches to 4" over creek. Remove Vinca. Monitor.
74	Q. lobata	5' north east of #70		2	14.3	Buried	Good	2	2	2	2	6	Branches arch over lawn. Excavate and examine root collar.
74	Quercus	30' south west of solar panels		3	18"	At grade	Good						Scattered dead inner branches. Prune for cleaning.
75	Q. lobata	9' east of #71		1	19.1"	Covered	Poor	3	2	2	2	7	Dead 7" diameter limb over park bench. Prune to remove dead branches. Excavate and examine root collar.
76	Q. lobata	5' north of #75.		2	25.2	Buried	Good	2	2	2	2	6	Branches arch over bench and lawn. Excavate and examine root collar.



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#	SPECIES	LOCATION	COMMENTS	PRI	DBH	ROOT COLLAR	VIGOR	FPOT	SIZE	TRGT	HAZ RAT
77	Q. lobata	48' east of #76.	Trunk leans 10 degrees west toward bench. Erosion 2 1/2' from trunk. 7" diameter dead branch over bench. Vinca in root zone.	1	21.7"	Buried	Fair	2	2	2	6
78	Q. lobata	6' north of #77	Vinca in root zone. Dead branches to 6" diameter over lawn.	1	14.5", 13"	Covered	Fair	2	2	2	6
79	Q. lobata	6' east of #78	Trunk leans and arches over border by lawn. Vinca in root zone.	2	13.2"	Buried	Good	2	2	2	6
80	Q. lobata	3' east of #79.	Top arches over house.	1	13.8	Covered	Good	2	2	3	7
81	Q. lobata	Top of bank abutting rec. path, 470' from Yount st.	Branches over ivy bed at Hopper Creek Village.	1	22.5"	Buried	Good	2	3	2	7
82	Q. lobata	1' from rec path, 511' from Yount St.	Branches over ivy bed at Hopper Creek Village.	1	14.1", 15.7"	Buried	Fair	1	2	2	5
83	Q. lobata	4' from rec. path, 536' from Yount Street.	Decay in upper trunk and wounded limbs over path, fence and Hopper Creek Village.	1	21.7"	Covered	Poor	3	2	2	7
84	Q. lobata	5' east of #83, 541' from Yount St.	Scattered dead branches to 2". Steel rail, and back yard under canopy.	2	17.9", 22"	Covered	Good	1	3	2	6
85	Q. lobata	Top f West bank, 588' from Yount Street.	Vinca on root collar. Erosion undermining roots.	1	18"	Buried	Fair	2	3	2	7
86	Q. lobata	Top of bank, 2' north east of #85	Erosion 3' from trunk. Canopy over drainage swale.	1	21.5"	Buried	Good	1	3	2	6
87	Q. lobata	6' north east of #86	Crowded by adjoining trees. All branches arch north over drainage swale.	3	17.7"	Buried	Good	1	2	1	4
88	Q. lobata	Perched on ledge, top of bank, 3' south east of #87	Canopy over creek.	3	23"	Buried	Good	2	2	1	5



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89	Q. lobata	Top of south bank, 4' from rec path.	Trunk leans slightly toward creek. Branches over creek, fence and Hopper Creek Village back yard.	2	27.2"	Buried	Fair	2	3	1	6
90	Q. lobata	5' from rec path, 645' from Yount Street.	Grape vine in canopy. Branches over Hopper Creek Village fruit tree area. Scattered dead branches to 3" over path.	2	22.7"	Covered	Fair	2	3	2	7
91	Q. lobata	1' from rec path, 650' from Yount Street.	Upper trunk and heavy low limb arch over Hopper Creek Village.	2	19.2"	Buried	Good	2	2	2	6
92	Q. lobata	Top of north bank, 716' from Yount Street.	Trunk leans 15 degrees north west over creek and peripheral area.	2	44.7"	Buried	Good	2	3	1	6
93	Q. lobata	Top of west bank, 751' from Yount Street.	See report 10/10/08. Decay in several buttress roots, trunk and limbs.	1	79.7"	At grade	Good	3	3	2	8
94	Q. lobata	Top of east bank, 770' from Yount Street.	Trunk leans 20 degrees east over a back yard.	1	18", 28"	Covered	Good	2	3	2	7
95	Q. lobata	Top of east bank, 628' from Finnell Rd.	Cluster of trees. Larger trunk leans slightly east.	1	8"-28"	Covered	Good				
96	Q. lobata	Bottom of east bank, 823' from Yount Street.	Trunk vertical. Branches ver creek and wild area.	3	27.9"	At grade	Fair	1	3	1	5
97	Q. lobata	5' south east of #96	Trunk leans 20 degrees south. Whole canopy over creek.	3	24"	Covered	Fair	2	3	1	6
98	Q. lobata	Top of west bank, 5' from rec path, 818' from Yount Street.	Root collar exposed by erosion on steep bank. Trunk leans 30 degrees south over rec path, fence and Hopper Creek Village ivy bed.	1	40"	Buried	Good	2	3	2	7
99	Q. lobata	Top of east bank, 870' from Yount Street.	Cluster of 6 trees. Lawn and creek under canopy. South tree leans 30 degrees south east. Wild grape vine in canopy.	2	12"-24"	Covered	Fair	2	3	2	7



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#	SPECIES	LOCATION	COMMENTS	RECOMMENDATIONS								
				PRI	DBH	ROOT COLLAR	VIGOR	FPOT	SIZE	TRGT	HAZ RAT	
100	Q. lobata	5' south of end of low cyclone fence at school grounds.	Trunk vertical. Branches over rec. path, fences and creek.	2	18.8"	Covered	Good	1	2	2	2	5
101	Q. lobata	3' from rec path, 916' from Yount Street.	Trunks arch over path, Hopper Creek Village fence, and open area behind backstop on ball field.	2	13", 13.1"	Buried	Good	2	3	2	2	7
102	Q. lobata	5' east of #101	Branches over other trees and creek.	3	23.7"	Covered	Fair	1	3	1	1	5
103	Q. lobata	Mid bank, 488' from Finnell Rd. foot bridge.	Suppressed and sheltered by larger trees.	3	10", 12", 6"	Covered	Fair	1	1	1	1	3
104	Q. lobata	4' down bank form low cyclone fence.	Larger trunk and low limbs lean and arch over bleachers. Scattered dead branches to 4" diameter.	1	20", 12"	Covered	Good	2	3	1	1	6
105	Q. lobata	6' from low cyclone fence, 443' from Finnell footbridge.	Most of canopy over creek.	3	24", 24"	Covered	Fair	2	3	1	1	6
106	Bishop pine	At edge of rec path, school property.	Leans 30 degrees over dugout. Gall rust, pitch moth	1	24.4"	At grade	Poor	2	3	2	2	7
107	Black walnut	4' downslope from cyclone fence.	Erosion has exposed buttress roots. Whole canopy over creek.	3	6", 8"	Covered	Good	1	1	1	1	3
108	Aleppo pine	6' east of rec path.	Numerous branches removed on west side.	3	15.2"	Covered	Poor	1	1	1	1	3
109	Oregon ash	Lower east bank	Canopy over creek, open area and low cyclone fence across creek.	3	6"-14" (five)	Buried	Good	1	2	1	1	4
110	Q. lobata	6' from low cyclone fence.	Few dead branches to 2". Creek, fence and rec path under canopy.	2	52"	Covered	Good	2	3	2	2	7



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#	SPECIES	LOCATION	COMMENTS	PRI	DBH	ROOT COLLAR	VIGOR	FPOT	SIZE	TRGT	HAZ RAT
111	Q. lobata	328' from Finnell footbridge.	Trunk vertical. Few dead branches to 2". Canopy over creek and construction site east of creek.	2	31.6"	Buried	Good	2	3	2	7
112	Q. lobata	8' from cyclone fence.	Scattered dead branches to 4". Canopy over fence, rec path & creek. Erosion exposed buttress roots.	2	24"	Covered	Fair	2	3	2	7
113	Q. lobata & Q.	East bank	14" tree leans 20 degrees toward construction site.	2	12", 16", 14"	Buried	Good	1	2	2	5
115	Creek Willow	Bottom of east bank.	Limbs arch across creek and rest on ground.	3	24"	At grade	Good	2	2	1	5
116	Q. lobata	205' from Finnell footbridge.	Creek and construction site under canopy.	2	22"	Covered	Good	2	3	2	7
117	Q. agrifolia	Top of west bank, 3' from cyclone fence.	Codominant trunks have tight "V" angle of attachment. Canopy over creek and path.	3	11", 11"	Covered	Good	1	1	2	4
119	Black walnut	Bottom of creek, 5' from cyclone fence.	Buttress roots exposed by erosion. Scattered dead branches to 4". Creek, fence, rec path under canopy.	2	12", 18"	Buried	Good	1	2	2	5
120	Creek willow	127' from Finnell footbridge.	Dead branches to 6". Creek, fence & rec path under canopy. Crowded sprouts on lower trunk. Dying tops.	1	36"	Covered	Poor	3	2	2	7
121	Black walnut	Upper east bank, 107' from Finnell footbridge.	Heavily infested with mistletoe. Numerous dead tops and branches.	1	24.3"	Buried	Poor	3	2	2	7
122	Q. lobata	77' from Finnell footbridge.	Erosion revealed large column of decay in lower trunk.	1	37.8"	Buried	Fair	2	3	2	7
123	Q. lobata	2' from cyclone fence.	Trunk leans sharply over fence and path.	2	12"	Covered	Good	1	2	2	5



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#	SPECIES	LOCATION	COMMENTS	PRI	DBH	RECOMMENDATIONS						
						ROOT COLLAR	VIGOR	FPOT	SIZE	TRGT	HAZ RAT	
124	Q. lobata	Middle of east bank	Scattered dead branches to 1". Construction site under canopy.	2	28"	Buried	Poor	2	3	2	2	7
125	Q. lobata	18' from Finnell footbridge.	Tagged Heritage Tree #134. scattered dead branches to 2".	1	26.5"	Covered	Fair	2	3	2	2	7

