

Jim Borer Certified Arborist #496
Specimen tree preservation, conservation, and analysis

March 2, 2021 (revised)

Mr. Craig Kozma
Manning Homes

Telefax: This page plus 13

Re: On-site Tree Inspection and Inventory Follow-up Report (revised March 2, 2021)
T. Tract 20334
East Avenue, North of Blue Gum
Etiwanda, Ca.

Dear Craig.

I am writing as a follow-up to my late March 2020 on-site inspections of the mature specimen Eucalyptus trees within the subject property. I am also transmitting herewith a copy of my 'Excel' spreadsheet inventory, **revised August 12, 2020**, of the trees, dead, alive, and stumps **within the margin of the separate property located directly to the south of the subject property. The adjacent** off-site trees have been included in this inventory as requested by the city of Rancho Cucamonga due to their proximity to your southern property boundary.

There is a total of 129 trees, alive, dead standing, and stumps that have been numbered and flagged with orange surveyor tape in the field. **The trunk diameters at breast height (dbh / 54") are referred to in the Excel spread sheet.** The total of 129 extends as follows:

66-dead standing trees (including 1-ash)
43-alive trees (including 4-ash and 4-street tree red iron bark Eucalyptus.)
20-Eucalyptus stumps

Tree number one is located at the southwest corner of the property where it fronts onto Etiwanda Avenue and the residential property to the south. The tree numbers then increase going from the west to the east along the southern property boundary linear tree row. Tree numbers 55-57 are located along the Golden Lock Street frontage. Tree number 58 initiates where the trees turn to the north near the eastern property boundary. Tree number 71 initiates where the linear row turns to the west back along the northern property boundary towards East Avenue. Tree number 109, the last of the large Eucalyptus trees, is located fronting onto East Avenue just to the south of the driveway that serves the property to the north of the subject property.

Tree numbers 110 through 113 are street tree *Eucalyptus sideroxylon rosea*, red iron bark Eucalyptus, and tree numbers 114 through 118 are multi trunk, evergreen ash trees.

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Tree number 117, an ash tree, is dead. Tree number 118 is growing just to the northwest of where Eucalyptus tree number one is located as referenced above.

Observations

Blue gum Eucalyptus trees

Most of the standing trees are blue gum Eucalyptus (*Eucalyptus globulous*). They are over-mature specimens as evident between the mix of live, dead standing, dead fallen, and persistent stumps. There is evidence that some of the dead trees have been dead for extended periods of time and that some are newly dead and newly collapsed. It is evident to me that the conditions of the live trees are marginal given the mix of live and dead tissues within their persistent canopies.

Opinions and Recommendations

It is my opinion that the relative conditions of the blue gum specimens can be considered by assessing the size of the died-back branches. The larger the size of the die-back branches the longer the decline has been developing and the further along the systemic decline and structural failure potentials are developed. **It is my opinion that the amount of decline that is present in the live blue gum trees disposes them to continuing to experience long-term decline and eventual catastrophic failures if they are conserved in place notwithstanding any amount of heroic or specialized tree care that they may receive. They would be poorly disposed to experiencing any amount of encroachment in the course of engineering the site to construct homes.**

Red Iron Bark Eucalyptus, Street Trees

The four street trees, #s 110-113, exhibit vigorous systemic performance. Their canopies exhibit good dispositions for long-term viability. Their branch structures are leaning away from the site's existing trees and into the northbound East Avenue traffic lanes.

Opinions and recommendations

The four street trees are good candidates for long-term conservation in their existing locations given their general systemic vigor and the presence of newly engineered curbs and sidewalks. The red iron bark Eucalyptus would be well-served by more effective traffic lane clearance pruning if they are going to be conserved to full maturity going forward.

Evergreen Ash Trees

The four live ash trees, #s 114-116 and 118, are generally typical specimens of a water loving tree type that have grown in dryer than ideal conditions. It is likely that they were irrigated more deliberately when they were young or they never would have achieved their current statures. They would be likely to perform poorly and exhibit marginal performance if they were to experience extended drought conditions or any stress in the development of this site.

Opinions and Recommendations

The four live ash trees' conditions are marginal as evident in the one that has died. They would be poor candidates for long-term conservation without their receiving significant

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attention to their long-term care. Given their marginal vigor and states of performance they would not be expected to experience encroachment gracefully. Their removal would be a reasonable consideration in the context of the long-term beautification of the site frontage.

There are 21 Heritage Trees based upon their minimum sizes with 20" DBH and 30' heights (30" DBH combined on multi trunk specimens). The Heritage trees are proposed for removal. The most recent landscape plan for the site includes a total of 101 new Eucalyptus trees proposed to be planted within various perimeter locations of the project site and a total of another 94 ornamental trees proposed for elsewhere within the site's development. It is my opinion that transplanted Eucalyptus trees most aggressively and effectively establish as 15-gallon specimens as compared to larger box size specimens.

Please contact me if you have any questions or if you require additional information after reviewing this follow-up report or the attached 'Excel' spreadsheet inventory.

Respectfully submitted,

Jim Borer
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Enclosure: Excel Spreadsheet, Existing Eucalyptus Tree Inventory



Cross section overview of blue gum Eucalyptus.

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Standing dead tree with typical re-growth of new trunks from distant past removal to ground level.



Stump from specimen that was cut down after it had died.

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This photograph depicts a mix of live growth, dead standing trunks, and stumps all in one.



This photograph depicts a stump with a live trunk, right, and a dead trunk, left.

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This photograph depicts varying stages of ultimate decline, including live, dead, and leaning dead trees.



This live specimen exhibits approximately one half of its canopy dead.

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This tree is approximately 90 % dead.

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This clump of live tree canopy contains a significant amount of died back branches.



The northern property boundary trees as seen looking east to west on their north side.

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A clump of dead trees in the northern property boundary row.



Tree numbers 55-57 are fronting onto Golden Lock.

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Golden Lock fronting trees as seen from the north.



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Northern property boundary adjacent to the driveway of the property to the north.



Red iron bark Eucalyptus street trees along the East Avenue frontage.

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Tree # 115, ash tree fronting East Avenue sidewalk frontage.



Ash tree number 116 fronting along East Avenue. Tree numbers 117, dead, and 118 in background to the right.