

**BBC Diamond Creek, LLC**

**Diamond Creek Lot 33**

UPDATED ARBORIST REPORT

Submitted by:

William O'Neil  
ISA Certified Arborist WE-6163A  
TREE CARE INCORPORATED

November 16, 2017

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**Tree Care Incorporated**  
A Complete Tree Care Company Since 1962



November 16, 2017

BBC Diamond Creek, LLC  
130 Diamond Creek Blvd, Ste 1  
Roseville, Ca 95747

(916) 786-8158 Phone

Attn: Stephen DesJardins

RE: Diamond Creek Lot 33

All trees included within the inventory have been previously identified in the field using 1" x 1" aluminum tag attached to the tree trunk approximately 4-5 feet above ground and have been rough plotted on the map you provided. The numbers contained in this report correspond with the tag numbers in the field

If you should have any questions or need further assistance with this matter please feel free to contact me.

Cordially,

William O'Neil  
ISA Certified Arborist WE-6163A

BPO/tc

**TREE # 533 - Blue Oak (*Quercus douglasii*), dual stem**

<b>Diameter</b>	: 24, 27 inches
<b>Dripline Radius</b>	: 50 feet
<b>Trunk flare</b>	: Poor – fill on high side, undermined by creek on other side
<b>Trunk</b>	: Poor – 27” trunk broke off
<b>Primary Limbs</b>	: Poor to Fair – excessive end weight
<b>Foliage</b>	: Fair – sparse
<b>Dripline Environment</b>	: Natural grasses
<b>Recommendations</b>	: Remove tree

**TREE # 534 - Blue Oak (*Quercus douglasii*)**

<b>Diameter</b>	: 24 inches
<b>Dripline Radius</b>	: 30 feet
<b>Trunk flare</b>	: Good
<b>Trunk</b>	: Fair – large limb removed at 3 feet
<b>Primary Limbs</b>	: Fair – average deadwood
<b>Foliage</b>	: Fair – sparse, insects present
<b>Dripline Environment</b>	: Natural grasses
<b>Recommendations</b>	: Subsurface fertilize

**TREE # 535 - Blue Oak (*Quercus douglasii*)**

<b>Diameter</b>	: 17 inches
<b>Dripline Radius</b>	: 16 feet
<b>Trunk flare</b>	: Fair
<b>Trunk</b>	: Poor to Fair – included bark at attachment
<b>Primary Limbs</b>	: Fair to poor – average amount of deadwood
<b>Foliage</b>	: Fair – insects present
<b>Dripline Environment</b>	: Natural grasses
<b>Recommendations</b>	: Subsurface fertilize

**TREE # 536 - Blue Oak (*Quercus douglasii*)**

<b>Diameter</b>	: 17 inches
<b>Dripline Radius</b>	: 23 feet
<b>Trunk flare</b>	: Fair
<b>Trunk</b>	: Fair to Poor – growing toward the north
<b>Primary Limbs</b>	: Fair – average amount of deadwood
<b>Foliage</b>	: Fair to Poor – slightly sparse, insects present
<b>Dripline Environment</b>	: Natural grasses
<b>Recommendations</b>	: Subsurface fertilize

**TREE # 537 - Blue Oak (*Quercus douglasii*)**

<b>Diameter</b>	: 18 inches
<b>Dripline Radius</b>	: 19 feet
<b>Trunk flare</b>	: Fair
<b>Trunk</b>	: Fair to Poor – growing toward the northwest
<b>Primary Limbs</b>	: Fair – average amount of deadwood
<b>Foliage</b>	: Fair – insects present
<b>Dripline Environment</b>	: Natural grasses
<b>Recommendations</b>	: Subsurface fertilize

**TREE # 538 - Blue Oak (*Quercus douglasii*)**

<b>Diameter</b>	: 14 inches
<b>Dripline Radius</b>	: 29 feet
<b>Trunk flare</b>	: Fair
<b>Trunk</b>	: Fair to Poor – growing toward the northeast
<b>Primary Limbs</b>	: Fair to Poor – average amount of deadwood
<b>Foliage</b>	: Fair – insects present
<b>Dripline Environment</b>	: Natural grasses
<b>Recommendations</b>	: Subsurface fertilize

**TREE # 539 - Blue Oak (*Quercus douglasii*)**

<b>Diameter</b>	: 12 inches
<b>Dripline Radius</b>	: 14 feet
<b>Trunk flare</b>	: Fair
<b>Trunk</b>	: Fair
<b>Primary Limbs</b>	: Fair to Poor – average amount of deadwood
<b>Foliage</b>	: Fair – insects present
<b>Dripline Environment</b>	: Natural grasses
<b>Recommendations</b>	: Subsurface fertilize

**TREE # 540 - Blue Oak (*Quercus douglasii*)**

<b>Diameter</b>	: 23 inches
<b>Dripline Radius</b>	: 38 feet
<b>Trunk flare</b>	: Fair
<b>Trunk</b>	: Fair – growing horizontally and down to ground
<b>Primary Limbs</b>	: Poor to Fair – 18” diameter limb failure on northern side, deadwood and excessive weight
<b>Foliage</b>	: Fair – insects present
<b>Dripline Environment</b>	: Natural grasses
<b>Recommendations</b>	: Subsurface fertilize

**TREE # 541 - Blue Oak (*Quercus douglasii*)**

<b>Diameter</b>	: 9 inches
<b>Dripline Radius</b>	: 21 feet
<b>Trunk flare</b>	: Fair
<b>Trunk</b>	: Fair
<b>Primary Limbs</b>	: Fair – average amount of deadwood
<b>Foliage</b>	: Fair
<b>Dripline Environment</b>	: Natural grasses
<b>Recommendations</b>	: Subsurface fertilize

**TREE # 542 - Blue Oak (*Quercus douglasii*)**

<b>Diameter</b>	: 16 inches
<b>Dripline Radius</b>	: 34 feet
<b>Trunk flare</b>	: Fair
<b>Trunk</b>	: Fair
<b>Primary Limbs</b>	: Fair to Poor – severe amount of deadwood
<b>Foliage</b>	: Poor
<b>Dripline Environment</b>	: Natural grasses
<b>Recommendations</b>	: Remove tree because it is dying

**TREE # 543 - Blue Oak (*Quercus douglasii*)**

<b>Diameter</b>	: 18 inches
<b>Dripline Radius</b>	: 23 feet
<b>Trunk flare</b>	: Fair
<b>Trunk</b>	: Fair
<b>Primary Limbs</b>	: Fair to Poor – severe amount of deadwood
<b>Foliage</b>	: Poor
<b>Dripline Environment</b>	: Natural grasses
<b>Recommendations</b>	: Remove tree because it is dying

**TREE # 544 – Blue Oak (*Quercus douglasii*)**

<b>Diameter</b>	: 8 inches
<b>Dripline Radius</b>	: 12 feet
<b>Trunk flare</b>	: Fair
<b>Trunk</b>	: Fair to Poor – growing toward the southeast
<b>Primary Limbs</b>	: Fair – average amount of deadwood
<b>Foliage</b>	: Fair – insects present
<b>Dripline Environment</b>	: Natural grasses
<b>Recommendations</b>	: Subsurface fertilize

**TREE # 545 – Blue Oak (*Quercus douglasii*)**

<b>Diameter</b>	: 39 inches
<b>Dripline Radius</b>	: 32 feet
<b>Trunk flare</b>	: Fair
<b>Trunk</b>	: Poor to Fair – previous failure, severe decay
<b>Primary Limbs</b>	: Poor to Fair – average amount of deadwood, 6 primary limbs have been cut to stubs
<b>Foliage</b>	: Fair – insects present
<b>Dripline Environment</b>	: Natural grasses
<b>Recommendations</b>	: Prune to reduce weight, remove deadwood and large stubs, and subsurface fertilize, or remove tree due to extreme drought stress

**TREE # 546 – Blue Oak (*Quercus douglasii*)**

<b>Diameter</b>	: 24 inches
<b>Dripline Radius</b>	: 26 feet
<b>Trunk flare</b>	: Fair
<b>Trunk</b>	: Fair
<b>Primary Limbs</b>	: Fair
<b>Foliage</b>	: Fair – insects present
<b>Dripline Environment</b>	: Natural grasses
<b>Recommendations</b>	: Subsurface fertilize

### **Specific Inventory Data/Maintenance Recommendations**

Within this specific inventory data you will find the following information:

Tree Number:	Corresponds to aluminum tag attached to the tree.
Species Identification:	Scientific and common species name
Diameter:	This is the trunk diameter as measured at breast height. (Industry standard 4.5 feet above ground level)
Dripline radius:	Measurement of the tree's dripline from the trunk to the farthest most branch tip.
Trunk flare:	Assessment of the trunk flare area located at the base of the trunk of the tree at soil level.
Trunk:	Assessment of the tree's main trunk from ground level generally to the point of the primary crotch structure.
Limbs:	Assessment of both smaller and larger branching, generally from primary crotch structure to branch tips.
Foliage:	Tree's leaves
Dripline Environment:	Describes area directly beneath the tree (growing environment).
Recommendation:	Specific maintenance requirements.

**CROWN CLEAN OUT:** This shall consist of the removal of all dead, dying, diseased, interfering, objectionable, obstructing and weak branches, as well as selective thinning to lessen wind resistance.

**SUBSURFACE FERTILIZATION:** A method employed to induce vigor and stimulate new root growth. This is used as a means of feeding a large tree, as well as deep watering at the same time. Water soluble fertilizers are mixed in water and hydraulically pumped with a probe into the ground delivering water and nutrients directly to the root zone allowing for uptake from the tree. In this way vigor can be improved and new root growth stimulated.



## **DEFINITIONS OF TERMS USED IN THIS REPORT**

**GOOD** - A tree in this category has no trunk or trunk flare cavities or injuries; there is no indication of hollowness; no foreign objects are embedded in it's structure; the trunk flare is above grade; there is no decay present except for small stubs; the structure is strong; the trunk is tapers; the bark thickness is normal; there is no fluxing; no fungus is evident; there is a below average amount of dead limbs and twigs present which is normal for the size and age of the species; there is no co-dominant branching present; there are no large callused areas and any small callusing present is vigorous and intact; there are no abnormally heavy insect infestations; the growth rate is and has been average or above; limb weight is not excessive; buds are normal size and viable; the leaf size, color, and density is normal or better; and barring any unforeseen negative effects, the life expectancy should exceed thirty years.

**FAIR** - There is no decay or indications of large hollow areas in the large limbs, trunk flare, or trunk; a few small callused-over foreign objects, e.g. nails, may be present, the structure is strong; no fungus is evident other than small saprophytes on exposed wood; some small, callusing injuries may be present, some small limbs may be dead and decaying but callus is forming at their base; some excessive limb weight may exist; there may be some minor fluxing; the amount of dead limbs and twigs present is within the normal range; some large callused areas may be present; some small cavities and areas of decay may be present; the growth rate is average or slightly below average; and some leaf size, color, and density may vary.

**POOR** - Significant cavities, dead areas, and decay may be present; the tree is structurally defective; fungus fruiting bodies may be present; the amount of dead limbs and twigs is far above normal; major co-dominant branching with embedded bark may be present; buds are small and some may not be viable; leaves may be below average size and may be abnormal in color; significant pest damage may be present; and the predicted structural life and/or viability is less than ten years.

The ratings "good to fair" and "fair to poor" are used to describe trees that fall between the described major categories and have elements of both.



*Austin B. Carroll & Son*  
**Tree Care Incorporated**  
A Complete Tree Care Company Since 1962



August 29, 2018

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786-8158 Phone  
[sld@dcpltd.com](mailto:sld@dcpltd.com) Email

RE: Parcel DC-33

Attn: Stephen Des Jardins

As requested I visited the above referenced site to inspect nine trees located on the West side of the proposed future development. The tree numbers are 536-544 and are included in the arborist report dated 11/16/2017.

After reviewing and discussing the proposed construction and grade change plans it is my understanding that the grade will be increased by approximately 4 feet and a concrete wall installed in the dripline of the trees, this will impact a minimum of 50% of the drip lines of tree numbers 536-541. Construction within these root zones combined with stress from recent drought years will most likely cause rapid decline, failure or death of these trees in the near future, even if the plans were changed to construct the wall around these trees.

Tree numbers 542 and 543 are the only trees that would be a possibility of preserving. Tree number 543 is not in good health and will likely die after construction due to the impacts within the root zone. I recommend this tree be removed prior to construction. Tree number 542 is in fair health considering the recent years of drought and can likely be retained if steps are taken to minimize construction impacts within the root zone i.e. install protective fencing around the dripline and avoid any unnecessary disturbance of this area during construction (see enclosed literature).

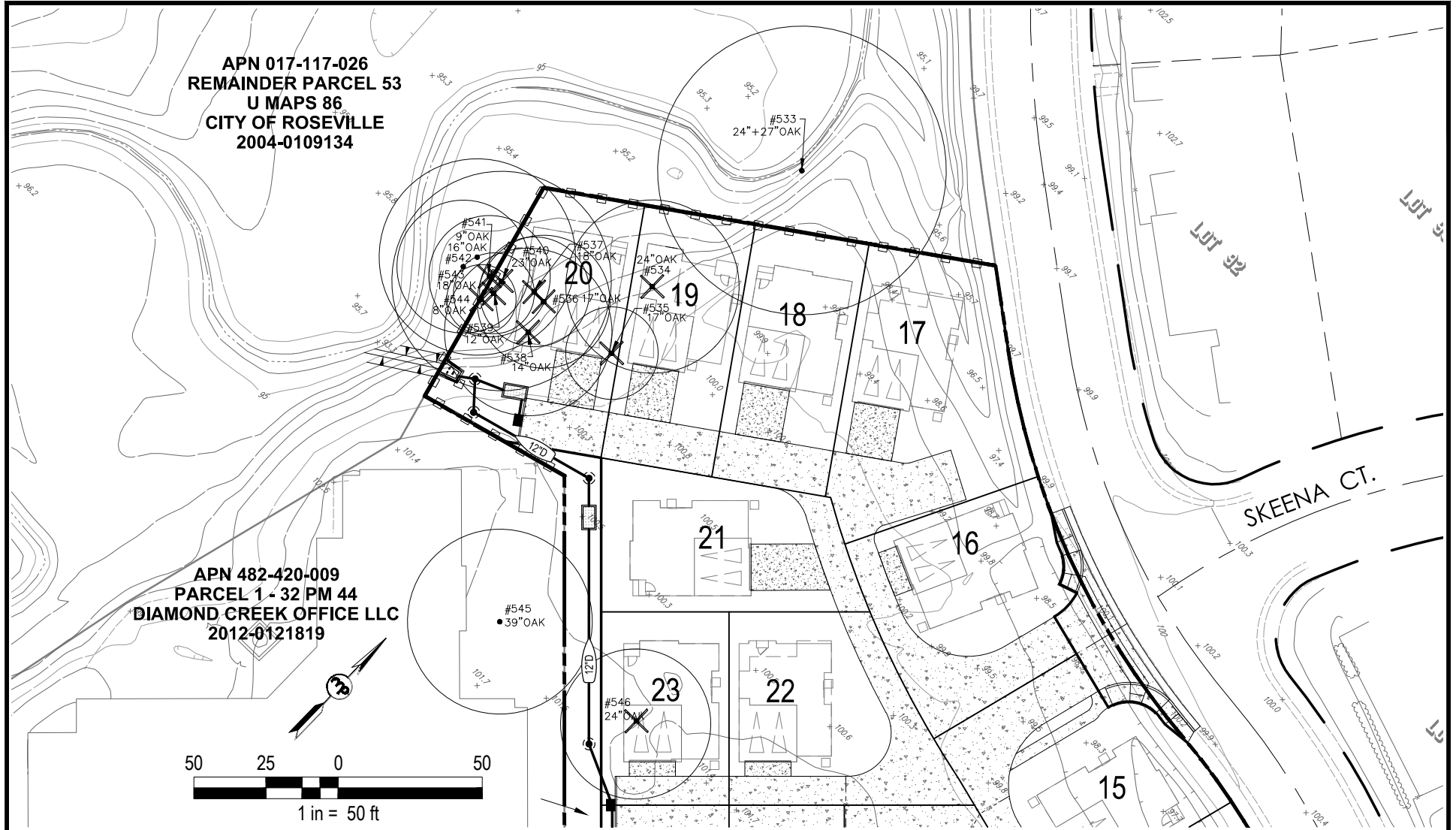
If I can be of any further assistance to you in this matter please feel free to contact me or my office.

Cordially,

William O'Neil  
ISA Certified Arborist WE-6163A

Enclosure: Protecting native Oaks during construction

BPO/tc



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DRAWN:	RM	JOB NO:	14-0071-01
CHECKED:	KT	DATE:	JULY 24, 2018
SCALE:	1" = 50'	SHEET:	1 of 1

TREE DRIP LINE EXHIBIT FOR:

**DIAMOND CREEK DC 30 & 33  
ROSEVILLE, CA**