



Consulting Arborists and Urban Forest Management

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**DATE:** November 3, 2023

**TO:** Brad Painter, Roads & Stormwater Maintenance Supervisor, City of Wilsonville

**FROM:** Morgan Holen, Consulting Arborist

**RE:** Charbonneau – Oak Tree Assessment for Signs & Symptoms of Mediterranean Oak Borer

MHA23038

At the request of the City of Wilsonville, I met with City staff in Charbonneau on October 6, 2023 to conduct a limited visual assessment<sup>1</sup> of oak trees along French Prairie Road to look for signs and symptoms of Mediterranean Oak Borer (MOB). This memorandum documents my observations and provides recommendations to remove nine oaks, which do not appear to have MOB but are unhealthy and therefore more susceptible to MOB infestation.

Prior to my site visit, Parks Maintenance Specialist and ISA Certified Arborist Christopher Delk had visually assessed oak trees along French Prairie Road to look for signs and symptoms of MOB such as large branch dieback, wood-colored boring dust and tiny entrance/exit holes. Chris identified eight trees with severe crown dieback and/or advanced trunk decay or the presence of root rot fungus, but no signs or symptoms of MOB were observed.

During my site visit, I met with Chris, as well as Roads and Stormwater Maintenance Supervisor Brad Painter, Asset Management Coordinator Andrew Sheehan, and Public Works Operations Manager Martin Montalvo. We drove the entire length of French Prairie Road slowly to look for large branch dieback or other obvious defects and stopped to visit the trees Chris had previously identified. I concur with Chris's findings and identified one additional tree with severe crown dieback and root decay fungus.

The crown decline appears natural, as the trees are mature, competing with one another for growing space, and located in relatively confined spaces with limited and compacted soil volume. Trunk decay and the presence of root rot fungus also appears natural, mainly the result of mechanical damage such as trunks being hit by vehicles in the past creating wounds for decay and roots being damaged by lawn mowers. Upon close examination, no wood-colored boring dust or tiny entrance/exit holes were observed at any of the nine trees that appear unhealthy and in decline, and MOB is not suspected.

The street trees in Charbonneau are predominately mature red oaks and pin oaks that were densely planted. To-date, MOB has only been positively identified in Oregon white oaks (*Quercus garryana*) in Wilsonville, not in the red oaks (*Quercus rubra*) or pin oaks (*Quercus palustris*) that are most common in Charbonneau. These other oak species are known to be susceptible, so managing the trees for health and good vigor and regular monitoring for signs and symptoms of MOB are critical to managing the threat of infestation.

<sup>1</sup> Limited visual assessment is defined as "a visual assessment from a specified perspective such as a foot, vehicle, or aerial patrol of an individual tree or population of trees near specified targets, to identify specified conditions or obvious defects" (Smiley et al., 2017). In this case, the assessment was limited to visual observations primarily from a slow-moving vehicle, with closer evaluation on foot when severe crown decline, trunk decay, or root rot fungus was observed.

Along French Prairie Road, the City conducts routine maintenance to remove dead and defective branches annually and removes dead and hazardous Charbonneau street trees when they are identified. As the trees continue to mature, more and more will show signs of progressive decline. With the arrival of MOB, more proactive management is recommended to remove declining trees before they are dead since declining trees are stressed and theoretically more susceptible to MOB infestation. Based on the limited visual assessment, nine declining trees are recommended for removal this year. These trees are described in the following table and their locations are identified on the enclosed site map prepared by Andy Sheehan.

**Table 1. Nine Declining Trees Recommended for Removal – Charbonneau 10/6/2023.**

Tree No.	Common Name	Scientific Name	DBH	Height	Comments
54877	red oak	<i>Quercus rubra</i>	30	85	Severe crown dieback
54954	pin oak	<i>Quercus palustris</i>	17	65	Basal decay with hollow
54982	pin oak	<i>Quercus palustris</i>	19	62	Crown dieback, history of branch failure
54983	pin oak	<i>Quercus palustris</i>	15	45	Crown dieback, history of branch failure
55062	red oak	<i>Quercus rubra</i>	24	70	Very low vigor, declining
55184	red oak	<i>Quercus rubra</i>	32	75	Severe crown dieback, decay fungi
55193	red oak	<i>Quercus rubra</i>	26	81	Crown dieback, basal decay, decay fungi
55239	red oak	<i>Quercus rubra</i>	21	85	Basal decay with hollow
55423	red oak	<i>Quercus rubra</i>	20	70	Severe cracking in trunk and structural branches

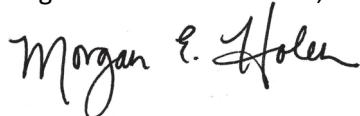
DBH is diameter at breast height measured 4.5-feet above ground level in inches. Height is approximate tree height in feet.

*Other recommendations:*

- Train the tree service crew that will conduct tree removal and annual dead wood pruning to look for signs and symptoms of MOB. Their contract with the City should specify that the crew will actively look for signs and symptoms of MOB and outline a process for reporting suspected infestations to City staff and a protocol for disposing infested wood.
- Perform a limited visual assessment annually to look for signs and symptoms of MOB infestation, document unhealthy declining oaks, and proactively remove them to maintain a healthy street tree population. Consider plant health care treatments such as root invigoration to support the long-term viability of the most high-valued trees.
- As trees are removed, look for opportunities to increase species and age class diversity by planting a variety of tree species on an on-going basis for more sustainable canopy cover.

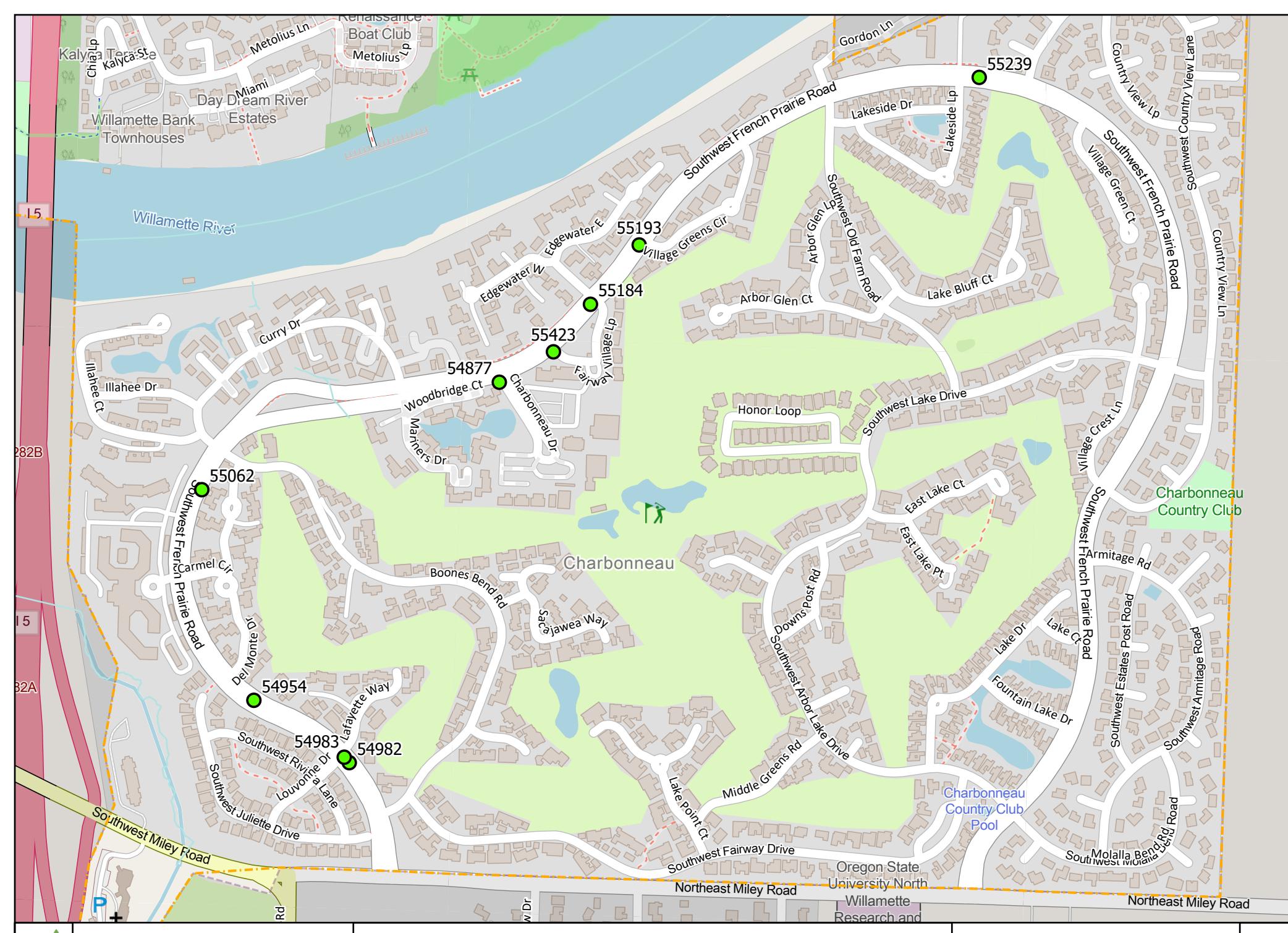
The Client may choose to accept or disregard the recommendations contained herein or seek additional advice. Neither this author nor Morgan Holen & Associates, LLC, have assumed any responsibility for liability associated with the trees on or adjacent to this site.

Thank you,  
Morgan Holen & Associates, LLC



Morgan E. Holen, Member  
ISA Board Certified Master Arborist, PN-6145B  
ISA Tree Risk Assessment Qualified

Enclosures: Charbonneau Tree Removal Site Map



### Oaks to be Removed (9)

# Charbonneau Oak Trees for Removal

0      250      500      1,000 Feet

