



Basic Tree Risk Assessment Form

Client Lee @ Audubon Nature Reserve Date Nov 5th 2024 Time 1pm
 Address/Tree location _____ Tree no. 1 Sheet _____ of _____
 Tree species Quercus garryana dbh 26" Height 75' Crown spread dia. 25'
 Assessor(s) Tim Jones Tools used phone, clinometer Time frame 1yr

Target Assessment

Target number	Target description	Target protection	Target zone			Occupancy rate 1-rare 2-occasional 3-frequent 4-constant	Practical to move target?	Restriction practical?
			Target within drip line	Target within 1x Ht.	Target within 1.5x Ht.			
1	<u>Building</u>	<u>None</u>		<u>X</u>		<u>4</u>		
2	<u>Vehicles</u>	<u>None</u>		<u>X</u>		<u>2</u>		
3								
4								

Site Factors

History of failures Lost limbs Topography Flat ☐ Slope ☒ 5 % Aspect _____
 Site changes None ☒ Grade change ☐ Site clearing ☐ Changed soil hydrology ☐ Root cuts ☐ Describe _____
 Soil conditions Limited volume ☐ Saturated ☐ Shallow ☐ Compacted ☐ Pavement over roots ☐ % Describe Nature Reserve
 Prevailing wind direction N-NE Common weather Strong winds ☒ Ice ☐ Snow ☐ Heavy rain ☒ Describe Valley Weather

Tree Health and Species Profile

Vigor Low ☒ Normal ☐ High ☐ Foliage None (seasonal) ☐ None (dead) ☐ Normal 90 % Chlorotic _____ % Necrotic 30 %
 Pests/Biotic _____ Abiotic _____
 Species failure profile Branches ☒ Trunk ☐ Roots ☒ Describe Know for stem loss & whole tree failures

Load Factors

Wind exposure Protected ☒ Partial ☐ Full ☐ Wind funneling ☐ Relative crown size Small ☐ Medium ☒ Large ☐
 Crown density Sparse ☒ Normal ☐ Dense ☐ Interior branches Few ☒ Normal ☐ Dense ☐ Vines/Mistletoe/Moss ☐
 Recent or expected change in load factors _____

Tree Defects and Conditions Affecting the Likelihood of Failure

— Crown and Branches —

Unbalanced crown ☐ LCR 90 %
 Dead twigs/branches ☒ 30 % overall Max. dia. 8'
 Broken/Hangers Number 3 Max. dia. 4"
 Over-extended branches ☐
 Pruning history
 Crown cleaned ☐ Thinned ☐ Raised ☒
 Reduced ☐ Topped ☐ Lion-tailed ☐
 Flush cuts ☐ Other _____
Declining health Condition(s) of concern _____
 Part Size _____ Fall Distance _____
 Load on defect N/A ☐ Minor ☐ Moderate ☐ Significant ☐
 Likelihood of failure Improbable ☐ Possible ☐ Probable ☐ Imminent ☐
 Cracks ☐ Lightning damage ☐
 Codominant ☐ Included bark ☐
 Weak attachments ☐ Cavity/Nest hole _____ % circ.
 Previous branch failures ☐ Similar branches present ☐
 Dead/Missing bark ☐ Cankers/Galls/Burls ☐ Sapwood damage/decay ☐
 Conks ☐ Heartwood decay ☐
 Response growth _____

— Trunk —

Dead/Missing bark ☐ Abnormal bark texture/color ☐
 Codominant stems ☐ Included bark ☐ Cracks ☒
 Sapwood damage/decay ☐ Cankers/Galls/Burls ☐ Sap ooze ☐
 Lightning damage ☐ Heartwood decay ☒ Conks/Mushrooms ☐
 Cavity/Nest hole _____ % circ. Depth _____ Poor taper ☐
 Lean 3 ° Corrected? _____
 Response growth _____
 Condition(s) of concern Significant cavities
 Part Size 26" Fall Distance _____
 Load on defect N/A ☐ Minor ☐ Moderate ☐ Significant ☒
 Likelihood of failure Improbable ☐ Possible ☒ Probable ☐ Imminent ☐

— Roots and Root Collar —

Collar buried/Not visible ☐ Depth _____ Stem girdling ☐
 Dead ☐ Decay ☐ Conks/Mushrooms ☐
 Ooze ☐ Cavity ☐ _____ % circ.
 Cracks ☐ Cut/Damaged roots ☐ Distance from trunk _____
 Root plate lifting ☐ Soil weakness ☐
 Response growth _____
 Condition(s) of concern _____
 Part Size _____ Fall Distance _____
 Load on defect N/A ☐ Minor ☐ Moderate ☐ Significant ☐
 Likelihood of failure Improbable ☐ Possible ☐ Probable ☐ Imminent ☐

[illegible]

Likelihood of Failure	Likelihood of Impact			
	Very low	Low	Medium	High
Imminent	Unlikely	Somewhat likely	Likely	Very likely
Probable	Unlikely	Unlikely	Somewhat likely	Likely
Possible	Unlikely	Unlikely	Unlikely	Somewhat likely
Improbable	Unlikely	Unlikely	Unlikely	Unlikely

Likelihood of Failure & Impact	Consequences of Failure			
	Negligible	Minor	Significant	Severe
Very likely	Low	Moderate	High	Extreme
Likely	Low	Moderate	High	High
Somewhat likely	Low	Low	Moderate	Moderate
Unlikely	Low	Low	Low	Low

Shell wall under 30%
Declining health
Significant cavity

1. <u>Remove</u>	Residual risk	<u>None</u>
2.	Residual risk	
3.	Residual risk	
4.	Residual risk	

Overall residual risk None ☒ Low ☐ Moderate ☐ High ☐ Extreme ☐ **Recommended inspection interval**

Inspection limitations ☒ None ☐ Visibility ☐ Access ☐ Vines ☐ Root collar buried Describe