Basic Tree Risk Assessment Form

Assessor _____

Client _____ Date _____

Address/Tree Location _____ Tools _____

Tree Species _____ Tree # _____ DBH _____ Height _____ **Time Frame** _____ years/months

Target #	Target Description Be specific, only one target per line.	Target Zone Check one box per target.				Occupancy Rate during time frame:			
		Drip line	1 X Ht	1.5 X Ht	>1.5 X Ht	Rare	Occasional	Frequent	Constant
1	First priority target (e.g., people near the tree)								
2	Second priority (e.g., people, structures, vehicles)								
3	Third priority (e.g., structures, vehicles)								

Site Conditions

Concerns: _____ ☐ None

Site changes: ☐ None ☐ Grade change ☐ Site clearing ☐ Changed hydrology ☐ Other _____

Crown

Foliage: ☐ None (dead) ☐ None (seasonal) Normal _____% Chlorotic _____% Necrotic _____%

Tree Health: ☐ Dead ☐ Poor ☐ Fair ☐ Good

Health concerns: _____ ☐ None

Density: ☐ Sparse ☐ Average ☐ Dense ☐ Vines/mistletoe/moss _____

Relative size crown/trunk: ☐ Small ☐ Medium ☐ Large ☐ Unbalanced ☐ Crown dieback ☐ Excessive end weight

Wind Exposure: ☐ Protected ☐ Partial ☐ Full ☐ Wind funneling Load concerns/recent changes _____

Pruning: ☐ Topped ☐ Thinned ☐ Lion tailed ☐ Raised ☐ Other _____ Live crown ratio (LCR) _____%

Branches

☐ No concerns ☐ Dead branches _____% overall Max. dia. _____

☐ Broken/hanging # _____ Max. dia. _____ ☐ Overextended

☐ Poor taper ☐ Weak attachments _____

☐ Previous branch failures _____ ☐ Similar branches present

☐ Structural support _____ ☐ Excessive sprouts ☐ Cracks

☐ Sapwood/heartwood decay ☐ Conks/mushrooms _____

☐ Cavity opening _____ ☐ Response growth _____

Main Branch and Crown Failure Types:

Failure Type 1: _____

Part size _____ Fall distance _____ Load: ☐ Low ☐ Med ☐ High

Likelihood of Failure: ☐ Improbable ☐ Possible ☐ Probable ☐ Imminent

Target # _____ Protection _____

Likelihood of Impact: ☐ Very Low ☐ Low ☐ Medium ☐ High

Consequences: ☐ Negligible ☐ Minor ☐ Significant ☐ Severe

Target # _____ Protection _____

Likelihood of Impact: ☐ Very Low ☐ Low ☐ Medium ☐ High

Consequences: ☐ Negligible ☐ Minor ☐ Significant ☐ Severe

Failure Type 2: _____

Part size _____ Fall distance _____ Load: ☐ Low ☐ Med ☐ High

Likelihood of Failure: ☐ Improbable ☐ Possible ☐ Probable ☐ Imminent

Target # _____ Protection _____

Likelihood of Impact: ☐ Very Low ☐ Low ☐ Medium ☐ High

Consequences: ☐ Negligible ☐ Minor ☐ Significant ☐ Severe

Target # _____ Protection _____

Likelihood of Impact: ☐ Very Low ☐ Low ☐ Medium ☐ High

Consequences: ☐ Negligible ☐ Minor ☐ Significant ☐ Severe

Trunk

☐ No concerns ☐ Codominant stems # _____ ☐ Included bark

☐ Decay ☐ Conks/mushrooms _____ ☐ Cavity opening _____

☐ Decay depth _____ ☐ Poor taper ☐ Lean ____° ☐ Corrected

☐ Dead/missing bark ☐ Cracks ☐ Ooze ☐ Lightning damage

Other _____ Response growth _____

Main Trunk Failure Type: _____

Likelihood of Failure: ☐ Improbable ☐ Possible ☐ Probable ☐ Imminent

Target # _____ Protection _____

Likelihood of Impact: ☐ Very Low ☐ Low ☐ Medium ☐ High

Consequences: ☐ Negligible ☐ Minor ☐ Significant ☐ Severe

Target # _____ Protection _____

Likelihood of Impact: ☐ Very Low ☐ Low ☐ Medium ☐ High

Consequences: ☐ Negligible ☐ Minor ☐ Significant ☐ Severe

Root Collar, Roots, and Soil

☐ No concerns ☐ Collar buried/not visible Depth _____

☐ Stem girdling _____ ☐ Fill soil _____

☐ Significant root damage or decay ☐ Conks/mushrooms _____

☐ Cut, distance from trunk _____ ☐ Root plate lifted _____

Soil: ☐ Often saturated ☐ Limited volume ☐ Pavement/Compaction

Response growth _____

Main Root / Soil Failure Type: _____

Likelihood of Failure: ☐ Improbable ☐ Possible ☐ Probable ☐ Imminent

Target # _____ Protection _____

Likelihood of Impact: ☐ Very Low ☐ Low ☐ Medium ☐ High

Consequences: ☐ Negligible ☐ Minor ☐ Significant ☐ Severe

Target # _____ Protection _____

Likelihood of Impact: ☐ Very Low ☐ Low ☐ Medium ☐ High

Consequences: ☐ Negligible ☐ Minor ☐ Significant ☐ Severe

This form is for data collection and analysis. It is not intended to be used as a report.

Risk Categorization and Analysis

Tree Part Branches, Trunk, Root Collar, Roots, or Soil	**Failure Type** Dead, Hanging, Decay, Crack, etc.	**Target** Description or Number	**Likelihood of Failure**				**Likelihood of Impact**				**Failure and Impact** from Matrix 1				**Consequences**				**Risk Rating** from Matrix 2
			Improbable	Possible	Probable	Imminent	Very low	Low	Medium	High	Unlikely	Somewhat	Likely	Very likely	Negligible	Minor	Significant	Severe	

Overall tree risk rating: ☐ Low ☐ Moderate ☐ High ☐ Extreme

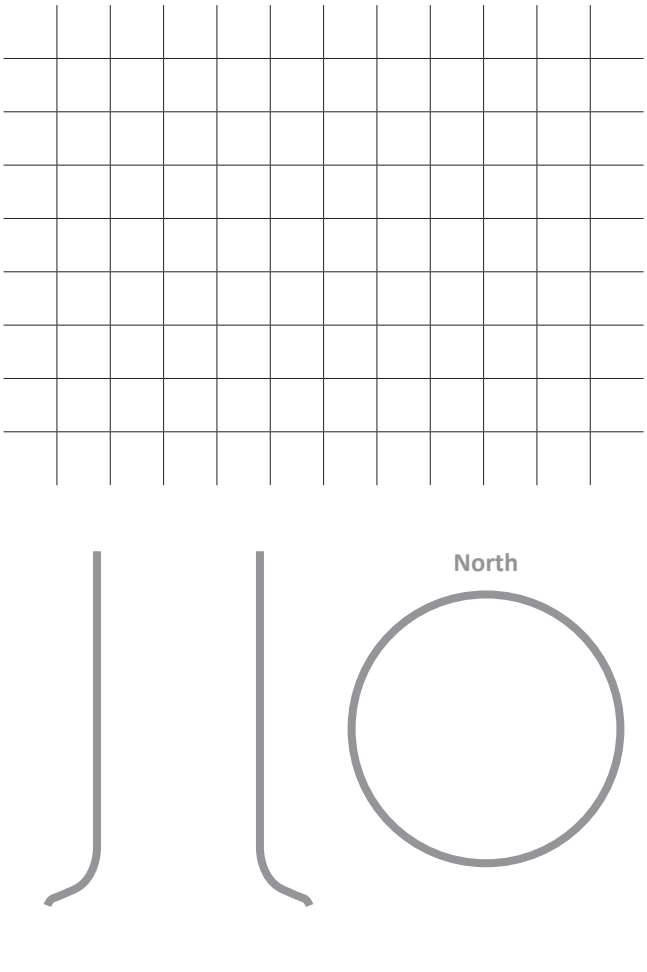
Matrix 1. **Likelihood matrix**

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

Matrix 2. **Risk matrix**

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

Notes, explanations, descriptions



Option	**Mitigation** More than one failure type/target can be mitigated on each line.	**Residual Risk** of the tree
1	Mitigation option for highest risk(s)	
2		
3		

Inspection limitations: ☐ None ☐ Visibility ☐ Access ☐ Vines ☐ Root collar buried Describe: _____

Data: ☐ Final ☐ Preliminary — Advanced Assessment recommended Type/reason: _____

Reassessment recommended in _____ years/months

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