

Arborist Report & Oak Tree Assessment

4049 Granite Drive, Rocklin, CA

May 2018

Prepared For:

Rocklin Retail Group, LLC

Attn: Brad Yust

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Introduction

It was requested that Arborwell provide a survey of the existing oak trees at 4049 Granite Drive in Rocklin. The visual inspection, assessment & tagging of each tree was completed on May 14th, 2018.

At this property there are a total of 89 oak trees including: 78 valley oak, 3 coast live oak & 8 interior live oak, which are growing in open undeveloped space. All of the noted trees are considered protected under the City of Rocklin Oak Tree Preservation Ordinance.

Method

It should be noted that the assessment in this report is based on a Level 2 above-ground inspection of the condition of the trees per International Society of Arboricultural standards. No soil was removed and no aerial inspection was performed. However, due diligence in the accuracy of observations reported has been taken.

Report Inclusions

Within this report you will find a site map, pictorial tree index, tree inventory and summary of findings.

Sitewide Obervations

Throughout the site there were some commonalities among the oak population. Although drought tolerant, oak trees, valley oaks in particular, prefer to grow near water. Due to our climate the trees have been impacted by drought stress. In addition to water not being readily available for absorption within the root zone, the soil is also compacted which effects the trees' ability to produce new root growth. In response to this trees will exhibit signs of stress including epicormic sprouts, crown dieback, susceptibility to pests & structural deficiencies. Below are information and photographic examples of the most common observations found on this site:

Epicormic Sprout Growth



Epicormic sprout growth is a manifestation of a tree's reaction to stress. The formation of these latent buds typically form immediately under the surface of the bark of the trunk or limbs. The emergence of these sprouts is the tree's attempt to produce stems with leaves which will enable the tree to use light energy to regenerate cells. If the primary growth on the tree is predominantly epicormic sprouts it is recommended that these trees be removed, as this is not considered to adventitious growth.

Included Bark



Included bark occurs when the joining leaders or trunks of the tree forming a "v" shape, which causes the tree to overproduce bark at the union. This leads to weak attachment and can ultimately cause splitting and failure because the bark produced cannot hold the weight of the limb or leader. If trees are within the tree protection zone, they should be structurally pruned to balance canopy and completely remove co-dominants if doing so does not have a detriment on the overall structure of the tree.

Crown Dieback



Crown dieback is a symptom of stress on a tree, in which the tree quickly looses leaves or is unable to produce leaves at the tips of the branches. This ailment typically begins in the uppermost portion of the canopy and works in towards the trunk of the tree. In our climate drought stress leading to decreased moisture & oxygen in the root system inhibit the trees ability to transfer water & nutrients throughout the crown. If trees are within a protection zone, they should be pruned to reduce risk of limb failure.

Tussock Moth Infestation



Western Tussock Moths are are pest which feed on the foliage of a variety of trees within our climate. These are a seasonal pest and can be managed using insecticidal treatment for large areas. Although it is unlikely that these pests will kill a tree, the risk associated is attributed to the fact that some people have a severe allergic reaction to the hairs that the caterpillars shed and those which are found on their eggs. If trees are within a protection zone they should be treated prior to occupancy of the space.



Powdery mildew is a fungus that grows on the surface of valley oak trees, typically on young spring growth because the moisture level of these leaves is higher. This fungus can cause premature leaf drop, but is not leathal to oaks in most cases. At this site, no action is necessary because the affected trees on this site are currently in moderate health and have supplemental growth to support the tree. If trees are within the tree protection zone, they should be treated upon project completion if fungus is still present.





<u>Legend</u>

- O Valley Oak 78
- Coast Live Oak 3
- O Interior Live Oak 8





Oak, Valley Tag#:200 *Quercus lobata*



Oak, CoastLive Tag#:203 Quercus agrifolia



Oak, Valley Tag#:201 *Quercus lobata*



Oak, CoastLive Tag#:204 Quercus agrifolia



Oak, Valley Tag#:202 *Quercus lobata*



Oak, Valley Tag#:205 *Quercuslobata*





Oak, Valley Tag#:206 *Quercus lobata*



Oak, Valley Tag#:207 *Quercuslobata*



Oak, Valley Tag#:208 *Quercus lobata*



Oak,CoastLive Tag#:209 Quercus agrifolia



Oak, Valley Tag#:210 *Quercuslobata*



Oak, Valley Tag #:211 *Quercuslobata*





Oak, Valley Tag #:212 *Quercus lobata*



Oak, Valley Tag#:215 *Quercuslobata*



Oak, Interior Live Tag #:213 Quercus wislizeni



Oak, Valley Tag#:216 *Quercuslobata*



Oak, Valley Tag #:214 *Quercus lobata*



Oak, Valley Tag#:217 *Quercus lobata*





Oak, Valley Tag#:218 *Quercus lobata*



Oak, Valley Tag#:221 *Quercus lobata*



Oak, Valley Tag#:219 *Quercus lobata*



Oak, Valley Tag#:222 *Quercuslobata*



Oak, Valley Tag#:220 *Quercus lobata*



Oak, Valley Tag#:223 *Quercuslobata*





Oak, Valley Tag#:224 *Quercus lobata*



Oak, Valley Tag#:227 *Quercus lobata*





Oak, Valley Tag #:226 *Quercus lobata*



Oak, Valley Tag#:228 *Quercuslobata*



Oak, Valley Tag#:229 *Quercus lobata*





Oak, Interior Live Tag #:230 Quercus wislizeni



Oak, Valley Tag #:233 *Quercuslobata*



Oak, Valley Tag#:231 *Quercus lobata*



Oak, Valley Tag #:234 *Quercuslobata*



Oak, Valley Tag#:232 *Quercus lobata*



Oak, Valley Tag #:235 *Quercus lobata*





Oak, Valley Tag #:236 Quercus lobata



Oak, Valley Tag#:239 *Quercus lobata*



Oak, Valley Tag #:237 *Quercuslobata*



Oak, Valley Tag#:238 *Quercus lobata*



Oak, Valley Tag #:240 *Quercuslobata*



Oak, Valley Tag #:241 *Quercuslobata*





Oak, Valley Tag#:242 *Quercus lobata*



Oak, Valley Tag#:245 *Quercus lobata*



Oak, Valley Tag#:243 *Quercus lobata*



Oak, Valley Tag#:246 *Quercuslobata*



Oak, Valley Tag#:244 *Quercus lobata*



Oak, Valley Tag #:247 *Quercuslobata*





Oak, Valley Tag #:248 Quercuslobata



Oak, Valley Tag#:251 *Quercuslobata*



Oak, Valley Tag#:249 *Quercuslobata*



Oak, Valley Tag#:252 *Quercuslobata*



Oak, Valley Tag #:250 *Quercus lobata*



Oak, Valley Tag #:253 *Quercus lobata*





Oak, Valley *Quercus lobata* Tag#:254



Oak, Valley *Quercuslobata* Tag#:255



Oak, Valley *Quercuslobata*





Tag#:257

Oak, Valley *Quercus lobata*



Oak, Valley Tag#:258 Quercuslobata



Oak, Valley *Quercus lobata* Tag #:259





Oak, Valley Tag#:260 *Quercus lobata*



Oak, Valley Tag #:263 *Quercuslobata*



Oak, Valley Tag#:261 *Quercuslobata*



Oak, Valley Tag#:264 *Quercuslobata*



Oak, Valley Tag#:262 *Quercus lobata*



Oak, Valley Tag#:265 *Quercuslobata*





Oak, Valley Tag#:266 *Quercus lobata*



Oak, Valley Tag#:267 *Quercus lobata*



Oak, Valley Tag#:268 *Quercuslobata*



Oak, Valley Tag#:269 *Quercus lobata*



Oak, Interior Live Zuercus wislizeni

Tag#:270



Oak, Interior Live *Quercus wislizeni*

Tag#:271





Oak, Valley Tag#:273 *Quercus lobata*



Oak, Valley Tag#:274 *Quercus lobata*



Oak, Valley Tag#:275 *Quercus lobata*



Oak, Valley Tag#:276 *Quercus lobata*



Oak, Valley Tag#:277 Quercuslobata



Oak, Valley Tag #:278 *Quercuslobata*





Oak, Valley Tag#:279 *Quercus lobata*



Oak, Valley *Quercus lobata*

Tag#:282



Oak, Interior Live Tag #:280 Quercus wislizeni



Oak, Valley Tag#:283 *Quercus lobata*



Oak, Valley Tag #:281 *Quercus lobata*



Oak, Valley Tag#:284 *Quercus lobata*





Oak, Valley Quercuslobata



Oak, Valley *Quercus lobata*





Oak, Valley Tag#:286 Quercuslobata



Oak, Valley *Quercuslobata* Tag#:289



Oak, Interior Live Quercus wislizeni

Tag#:287

	Original					
Tag #	Tag #	Common Name	Botanical Name	DBH	Health	Observations
<i></i>	- • g					
200	N/A	Oak, Valley	Quercus lobata	16.6	60% - Fair	Included Bark, Minor Deadwood
201	344	Oak, Valley	Quercus lobata	17.2	80% - Good	Deadwood, Epicormic Sprouts, Included Bark
202	N/A	Oak, Valley	Quercus lobata	13.6	80% - Good	Included Bark, Minor Deadwood
				48.5 (multi-		
203	N/A	Oak, Coast Live	Quercus agrifolia	trunk)	80% - Good	Deadwood, Leaf Spot,
004	400			47.0		Crowded By Adjacent Valley Oak, Canopy Dieback, Deadwood,
204	462	Oak, Coast Live	Quercus agrifolia	17.6	60% - Fair	Poor Structure
205	462		Quereus lebete	16.4	60% Eair	Included Bark, Deer Structure
205	403	Oak, valley		10.4	60% - Fair	Deadwood Epicormic Sproute Poor Structure Small Covity at
206	464	Oak Valley	Quercus lobata	127	40% - Poor	Base
200	404			12.7	4078 - 1 001	
207	465	Oak Valley	Quercus lobata	13.8	40% - Poor	Deadwood Enicormic Sprouts Poor Structure
208	466	Oak Valley	Quercus lobata	12.5	40% - Poor	Deadwood, Epicormic Sprouts, Poor Structure
209	N/A	Oak, Coast Live	Quercus agrifolia	25.1 (multi-	60% - Fair	Canopy Dieback, Deadwood, Mistletoe, Poor Structure, Trunk
	, / .					
						Co-Dominant Leader with Included Bark, Deadwood, Epicormic
210	N/A	Oak, Valley	Quercus lobata	12.6	40% - Poor	Sprouts, Poor Structure, Tussock Moth Presence
211	469	Oak, Valley	Quercus lobata	12.8	40% - Poor	Epicormic Sprouts, Included Bark, Poor Structure, Significant
212	491	Oak, Valley	Quercus lobata	12.6	40% - Poor	Epicormic Sprouts, Included Bark, Poor Structure, Significant
213	N/A	Oak, Interior Live	Quercus wislizeni	22.7	60% - Fair	Canopy Dieback, Deadwood, Trunk Wound, Tussock Moth
214	494	Oak, Valley	Quercus lobata	15.3	60% - Fair	Co-Dominant Trunks, Deadwood, Epicormic Sprouts
						Deadwood, Epicormic Sprouts, Poor Structure, Tussock Moth
215	492	Oak, Valley	Quercus lobata	14.7	60% - Fair	Presence
216	490	Oak, Valley	Quercus lobata	12.9	40% - Poor	Canopy Dieback, Deadwood, Epicormic Sprouts, Poor Structure,
217	496	Oak, Valley	Quercus lobata	14.2	40% - Poor	Canopy Dieback, Deadwood, Epicormic Sprouts, Poor Structure,
						Deadwood, Epicormic Sprouts, Powdery Mildew, Tussock Moth
218	497	Oak, Valley	Quercus lobata	10.8	60% - Fair	Presence
						Deadwood, Epicormic Sprouts, Poor Structure, Powdery Mildew,
219	498	Oak, Valley	Quercus lobata	13.6	40% - Poor	Tussock Moth Presence
						Co-Dominant Leader with Included Bark, Epicormic Sprouts,
220	499	Oak, Valley	Quercus lobata	19.3	60% - Fair	Tussock Moth Presence
221	500	Oak, Valley	Quercus lobata	14.1	60% - Fair	Deadwood, Epicormic Sprouts, Included Bark
						Canopy Dieback, Co-Dominant Leader with Included Bark,
222	489	Oak, Valley	Quercus lobata	11	60% - Fair	Deadwood, Epicormic Sprouts, Poor Structure

Tag #Tag #Common NameBotanical NameDBHHealthObservations223488Oak, ValleyQuercus lobata10.840% - PoorUnbalanced Canopy224506Oak, ValleyQuercus lobata14.8 (multi- trunk)Co-Dominant Leaders, Overcrowded by Adjacent Interior Live224506Oak, ValleyQuercus wislizeni29.8 (multi- trunk)Co-Dominant Leaders, Overcrowded by Adjacent Interior Live225507Oak, Interior LiveQuercus wislizeni29.8 (multi- trunk)Eadwood, Sparse Canopy, Weight Over Sidewalk226508Oak, ValleyQuercus lobata11.940% - PoorStructure227509Oak, ValleyQuercus lobata12.340% - PoorStructure, Tussock Moth Presence228484Oak, ValleyQuercus lobata12.340% - PoorStructure, Tussock Moth Presence228509Oak, ValleyQuercus lobata11.940% - PoorStructure, Tussock Moth Presence228484Oak, ValleyQuercus lobata12.340% - PoorStructure, Tussock Moth Presence228511Oak, Interior LiveQuercus lobata10.660% - FairDeadwood, Lead spot, Minor Canopy Dieback, Tussock Moth230511Oak, Interior LiveQuercus wislizeni18.7 (multi- trunk)B0% - GoodPresence231504Oak, ValleyQuercus lobata13.240% - PoorStructure, Tussock Moth Presence233N/AOak, Interior Li		Original					
223 488 Oak, Valley Quercus lobata 10.8 40% - Poor Epicormic Sprouts, Poor Structure, Tussock Moth Presence, Unbalanced Canopy 224 506 Oak, Valley Quercus lobata 10.8 40% - Poor Unbalanced Canopy 224 506 Oak, Valley Quercus lobata trunk) 20% - Critical Oak, Poor Structure, Weight Over Sidewalk 225 507 Oak, Interior Live Quercus lobata 11.9 60% - Fair Deadwood, Sparse Canopy, Weight Over Sidewalk 226 508 Oak, Valley Quercus lobata 11.9 40% - Poor Structure, Tussock Moth Presence, Canopy Dieback, Deadwood, Epicormic Sprouts Throughout, Poor 227 509 Oak, Valley Quercus lobata 12.3 40% - Poor Structure, Tussock Moth Presence 228 484 Oak, Valley Quercus lobata 13.1 60% - Fair Deadwood, Epicormic Sprouts, Included Bark, Deadwood, Growing Out 229 N/A Oak, Interior Live Quercus wislizeni 18.7 (multi-trunk) Deadwood, Leaf Spot, Minor Canopy Dieback, Tussock Moth 230 511 Oak, Interior Live Quercus lobata 11.6 60% - Fair Deadwood, Leaf Spot, Min	Tag #	Tag #	Common Name	Botanical Name	DBH	Health	Observations
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230 511 Oak, Interior Live Quercus wislizeni trunk) 80% - Good Presence 231 504 Oak, Valley Quercus lobata 11 60% - Fair Sprouts, Poor Structure, Tussock Moth Presence 232 503 Oak, Valley Quercus lobata 13.2 40% - Poor Structure, Tussock Moth Presence 233 N/A Oak, Interior Live Quercus wislizeni 18.1 80% - Good Deadwood 234 486 Oak, Valley Quercus lobata 11.8 60% - Fair Deadwood, Epicormic Sprouts, Tussock Moth Presence 235 485 Oak, Valley Quercus lobata 11.4 60% - Fair Deadwood, Epicormic Sprouts, Tussock Moth Presence					18.7 (multi-		Deadwood, Leaf Spot, Minor Canopy Dieback, Tussock Moth
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231 504 Oak, Valley Quercus lobata 11 60% - Fair Sprouts, Poor Structure, Tussock Moth Presence 232 503 Oak, Valley Quercus lobata 13.2 40% - Poor Structure, Tussock Moth Presence 233 N/A Oak, Interior Live Quercus wislizeni 18.1 80% - Good Deadwood 234 486 Oak, Valley Quercus lobata 11.8 60% - Fair Deadwood, Epicormic Sprouts, Tussock Moth Presence 235 485 Oak, Valley Quercus lobata 11.1 60% - Fair Deadwood, Epicormic Sprouts, Tussock Moth Presence							Co-Dominant Leader with Included Bark, Deadwood, Epicormic
232503Oak, ValleyQuercus lobata13.240% - PoorCanopy Dieback, Epicormic Sprouts, Major Deadwood, Poor Structure, Tussock Moth Presence233N/AOak, Interior LiveQuercus wislizeni18.180% - GoodCompeting with Adjacent Valley Oak, Epicormic Sprouts, Minor Deadwood234486Oak, ValleyQuercus lobata11.860% - FairDeadwood, Epicormic Sprouts, Tussock Moth Presence235485Oak, ValleyQuercus lobata11.160% - FairDeadwood, Epicormic Sprouts, Tussock Moth Presence	231	504	Oak, Valley	Quercus lobata	11	60% - Fair	Sprouts, Poor Structure, Tussock Moth Presence
232 503 Oak, Valley Quercus lobata 13.2 40% - Poor Structure, Tussock Moth Presence 233 N/A Oak, Interior Live Quercus wislizeni 18.1 80% - Good Deadwood 234 486 Oak, Valley Quercus lobata 11.8 60% - Fair Deadwood, Epicormic Sprouts, Tussock Moth Presence 235 485 Oak, Valley Quercus lobata 11.1 60% - Fair Deadwood, Epicormic Sprouts, Tussock Moth Presence							Canopy Dieback, Epicormic Sprouts, Major Deadwood, Poor
233 N/A Oak, Interior Live Quercus wislizeni 18.1 80% - Good Deadwood 234 486 Oak, Valley Quercus lobata 11.8 60% - Fair Deadwood, Epicormic Sprouts, Tussock Moth Presence 235 485 Oak, Valley Quercus lobata 11.1 60% - Fair Deadwood, Epicormic Sprouts, Tussock Moth Presence	232	503	Oak, Valley	Quercus lobata	13.2	40% - Poor	Structure, Tussock Moth Presence
233 N/A Oak, Interior Live Quercus wislizeni 18.1 80% - Good Deadwood 234 486 Oak, Valley Quercus lobata 11.8 60% - Fair Deadwood, Epicormic Sprouts, Tussock Moth Presence 235 485 Oak, Valley Quercus lobata 11.1 60% - Fair Deadwood, Epicormic Sprouts, Tussock Moth Presence							Competing with Adjacent Valley Oak, Epicormic Sprouts, Minor
234486Oak, ValleyQuercus lobata11.860% - FairDeadwood, Epicormic Sprouts, Tussock Moth Presence235485Oak, ValleyQuercus lobata11.160% - FairDeadwood, Epicormic Sprouts, Tussock Moth Presence	233	N/A	Oak, Interior Live	Quercus wislizeni	18.1	80% - Good	Deadwood
234 486 Oak, Valley Quercus lobata 11.8 60% - Fair Deadwood, Epicormic Sprouts, Tussock Moth Presence 235 485 Oak, Valley Quercus lobata 11.1 60% - Fair Deadwood, Epicormic Sprouts, Tussock Moth Presence		100					
235 485 Oak, Valley Quercus lobata 11.1 60% - Fair Deadwood, Epicormic Sprouts, Tussock Moth Presence	234	486	Oak, Valley	Quercus lobata	11.8	60% - Fair	Deadwood, Epicormic Sprouts, Tussock Moth Presence
	235	485	Oak, Valley	Quercus lobata	11.1	60% - Fair	Deadwood, Epicormic Sprouts, Tussock Moth Presence
	000	404			0.0		00% dead. Enicempia Organita
236 481 Oak, Valley Quercus lobata 9.6 20% - Critical 80% dead, Epicormic Sprouts	236	481	Oak, Valley	Quercus lobata	9.6	20% - Critical	80% dead, Epicormic Sprouts
Deadwood, Epiconnic Spiouls Throughoul, Pool Structure, Trunk	007	400			11.0	400/ Deer	Mound
237 462 Oak, Valley Quercus lobata 11.9 40% - Poor Wound	237	402	Oak, Valley	Quercus lobata	11.9	40% - Poor	Woullu Canony Disback, Deadwood, Enjacrmia Sprauta, Dewdery Mildow
200 471 Oak, Valley Quercus Iobata 10.4 80% - Good Callopy Dieback, Deadwood, Epiconnic Sprouts, Powdery Mildew,	238	4/1	Oak, Valley		10.4		Co Dominant Loader with Included Bark, Minor Doctwood
239 470 Oak, Valley Quercus lobata 22.1 80% - Good Co-Dominant Leader with Included Bark, Million Deadwood,	239	470 N/A	Oak, Valley		12.0	60% - G000	Co-Dominant Leader with Included Bark, Wind Deadwood,
	240	IN/A	Oak, Valley		13.0		Carlopy Dieback, CO-Dominant Leader with included Balk,
241 472 Oak Valley Ouercus lobata 9.7 60% - Eair Capopy Dieback Deadwood Enicormic Sproute Poor Structure	2/1	172	Oak Valley	Quercus lobata	9.7	60% - Eoir	Canony Dieback Deadwood Enicormic Sprouts Poor Structure
	241	712	Jan, valicy		3.1	0070 - Fall	Carlopy Dieback, Deadwood, Epiconnic Oprouis, Foor Structure
242 473 Oak Valley Quercus lobata 13.4 80% - Good Deadwood, End-Weight	242	473	Oak Valley	Quercus lobata	13.4	80% - Good	Deadwood, End-Weight

	Original					
Tag #	Tag #	Common Name	Botanical Name	DBH	Health	Observations
	Ŭ					
243	474	Oak, Valley	Quercus lobata	10.2	40% - Poor	Canopy Dieback, Deadwood, Poor Structure
						Co-Dominant Leader with Included Bark, Major Deadwood,
244	475	Oak, Valley	Quercus lobata	16.2	60% - Fair	Tussock Moth Presence
245	476	Oak, Valley	Quercus lobata	12.6	60% - Fair	Co-Dominant Leader with Included Bark, Deadwood
246	477	Oak, Valley	Quercus lobata	16 (multi-trunk)	60% - Fair	Co-Dominant Stem, Deadwood, Epicormic Sprouts, Minor Canopy
247	478	Oak, Valley	Quercus lobata	11.8	60% - Fair	Canopy Dieback, Epicormic Sprouts
						Canopy Dieback, Epicormic Sprouts, Poor Structure, Tussock
248	501	Oak, Valley	Quercus lobata	13.6	40% - Poor	Moth Presence
249	N/A	Oak, Valley	Quercus lobata	10.5	60% - Fair	Deadwood, Powdery Mildew, Unbalanced Canopy
						Canopy Dieback, Epicormic Sprouts, Multiple Co-Dominant
250	N/A	Oak, Valley	Quercus lobata	10.9	40% - Poor	Leaders with Included Bark, Poor Structure
251	517	Oak, Valley	Quercus lobata	10.2	40% - Poor	Deadwood, Epicormic Sprouts Throughout, Poor Structure
						Deadwood, Epicormic Sprouts, Minor Canopy Dieback, Powdery
252	N/A	Oak, Valley	Quercus lobata	11.4	60% - Fair	Mildew
253	N/A	Oak, Valley	Quercus lobata	11.2	40% - Poor	Co-Dominant Leader with Included Bark, Deadwood, Epicormic
				10.1		
254	522	Oak, Valley	Quercus lobata	12.1	60% - Fair	Deadwood, Epicormic Sprouts, Nest Present, Powdery Mildew
255	N/A	Oak, Valley	Quercus lobata	10.1	60% - Fair	Co-Dominant Leaders, Deadwood, Epicormic Sprouts
						Co-Dominant Leaders with Included Bark, Deadwood, Epicormic
256	524	Oak, Valley	Quercus lobata	12.9	80% - Good	Sprouts
	- 10			17.0		Canopy Dieback, Deadwood, Epicormic Sprouts, Unbalanced
257	516	Oak, Valley	Quercus lobata	15.2	60% - Fair	Canopy
258	N/A	Oak, Valley	Quercus lobata	10.4	40% - Poor	Canopy Dieback, Epicormic Sprouts, Multiple Co-Dominant
259	515	Oak, Valley	Quercus lobata	18.8	60% - Fair	Canopy Dieback, Deadwood, Epicormic Sprouts, Significant Limb
						Deadwood, Epicormic Sprouts, Minor Canopy Dieback, Tussock
260	514	Oak, Valley	Quercus lobata	13.2	60% - Fair	Moth Presence
						Canopy Dieback, Epicormic Sprouts Throughout, Limb Failures,
261	513	Oak, Valley	Quercus lobata	15.1	40% - Poor	Poor Structure, Tussock Moth Presence
262	N/A	Oak, Valley	Quercus lobata	12.1	80% - Good	Deadwood, Minor Canopy Dieback, Tussock Moth Presence
263	529	Oak, Valley	Quercus lobata	11.2	60% - Fair	Canopy Dieback, Deadwood
						Co-Dominant Leader with Included Bark, Coast Live Oak Sucker,
264	N/A	Oak, Valley	Quercus lobata	10.8	80% - Good	Minor Deadwood, Powdery Mildew, Tussock Moth Presence
						Deadwood, Epicormic Sprouts, Minor Canopy Dieback, Tussock
265	528	Oak, Valley	Quercus lobata	16.8	60% - Fair	Moth Presence

	Original					
Taq #	Tag #	Common Name	Botanical Name	DBH	Health	Observations
266	527	Oak, Valley	Quercus lobata	15.4	40% - Poor	Canopy Dieback, Deadwood, Endweight, Poor Structure
267	526	Oak, Valley	Quercus lobata	10.2	60% - Fair	Deadwood, Minor Canopy Dieback, Powdery Mildew, Tussock
						Canopy Dieback, Deadwood, Epicormic Sprouts Throughout, Nest
268	525	Oak, Valley	Quercus lobata	14.5	40% - Poor	Present, Tussock Moth Presence
						Co-dominant Leader with Included Bark, Deadwood, Epicormic
269	N/A	Oak, Valley	Quercus lobata	10.8	60% - Fair	Sprouts, Tussock Moth Presence
270	N/A	Oak, Interior Live	Quercus wislizeni	24.3	80% - Good	Deadwood, Leaf Spot, Minor Compartmentalized Decay in Trunk,
271	N/A	Oak, Interior Live	Quercus wislizeni	16.8	80% - Good	Minor Leaf Gall
	- 10					
273	549	Oak, Valley	Quercus lobata	14.8	90% - Very Goo	Minor Deadwood
074	N1/A			10.0		
274	N/A	Oak, Valley	Quercus lobata	10.2	60% - Fair	Epicormic Sprouts, Trunk Wound, Tussock Moth Presence
2/5	542	Oak, Valley		10.8	60% - Fair	Deadwood, Epicormic Sprouts, Trunk Wound, Tussock Moth
270	539	Oak, valley		13.0	60% - Fall	Canopy Dieback, Co-Dominant Leader, Deadwood, Epiconnic
077	540		Quarque labota	14	10% Door	Enjoermie Spreute Throughout, Door Structure
	540	Oak, valley		14	40% - 2001	Co Dominant Loader with Included Bark, Deadwood, Enicormic
278	538	Oak Valley	Quercus lobata	14.2	60% - Eair	Sproute
270	550	Oak, valley		14.2	00 /6 - 1 all	Deadwood Enicormic Sprouts Nest Present Poor Structure
279	N/A	Oak Valley	Quercus lobata	10.6	60% - Fair	Uneven Canopy Due To Limb Failure
215	11/73			10.0	0070 1 411	
280	536	Oak Interior Live	Quercus wislizeni	21.5	80% - Good	Minor Deadwood
					0070 0000	Co-Dominant Leader with Included Bark. Deadwood. Epicormic
281	N/A	Oak. Vallev	Quercus lobata	10.2	60% - Fair	Sprouts. Sparse Canopy
						Co-Dominant Leader with Included Bark, Epicormic Sprouts
282	533	Oak, Valley	Quercus lobata	13.6	40% - Poor	Throughout, Powdery Mildew, Trunk Wounds
						Co-Dominant Leader with Included Bark, Epicormic Sprouts
283	N/A	Oak, Valley	Quercus lobata	9.8	40% - Poor	Throughout, Powdery Mildew, Trunk Wounds
		•				
284	535	Oak, Valley	Quercus lobata	10.6	60% - Fair	Deadwood, Epicormic Sprouts, Unbalanced & Sparse Canopy
285	537	Oak, Valley	Quercus lobata	23.7	80% - Good	Minor Deadwood
286	454	Oak, Valley	Quercus lobata	28.1	80% - Good	Minor Deadwood
287	N/A	Oak, Interior Live	Quercus wislizeni	37.8 (multi-	80% - Good	Deadwood, Fungus & Wound on One Leader, Growing Out of
288	479	Oak, Valley	Quercus lobata	12.6	60% - Fair	Deadwood, Epicormic Sprouts, Poor Structure
						Co-Dominant Leader with Included Bark, Deadwood, Tussock
289	480	Oak, Valley	Quercus lobata	15.9	60% - Fair	Moth Presence, Trunk Wound at base

Summary

The oak trees located at 4049 Granite Drive ranged in health from critical (20%) to good (80%). Of the 89 trees surveyed 28 of the trees are in critical to poor condition and should be removed. The other 61 trees to remain on the site, which will be in direct contact with the public, should be pruned and an integrated pest management plan should be put in place. All tree work performed should be done under the direct supervision of a certified arborist. Additionally, any trees which may be impacted by development of the site will be subject to the City of Rocklin Oak Preservation ordinance (Section VI, Appendix D).

Limitations

This report is to be used for informational purposes only, based upon assessment of trees taken in May 2018.

Arborists are tree specialists who use their education, knowledge, training and experience to examine trees, recommend measures to enhance the beauty and health of the trees and attempt to reduce the risk to people and structures near trees. Arborists cannot detect every condition that could lead to a tree failure. There are inherent risks with trees that cannot be predicted with any degree of certainty, even by the most skilled and experienced arborist. Since trees are living organisms their condition may change at any time. Often conditions are hidden within the tree and/or below ground out of the Arborists sight. Arborists cannot guarantee tree health and/or safety under all circumstances or for a specific period of time. Arborists cannot predict acts of nature including, without limitation, storms of sufficient strength which can even take down a tree with a vigorous and structurally sound appearance.

Trees can be managed but they cannot be controlled. To develop land and live near trees is to accept some degree of risk and the only way to eliminate all risk associated with trees would be to eliminate all of the trees. Anyone who builds, buys or lives in a structure within the vicinity of a tree should be aware of this Arborists' Disclaimer, and understand the risk that a tree could at any time suffer a branch and/or limb failure, fail in a storm and/or fall for no apparent reason which may cause bodily injury and/or property damage.

Neither Arborwell, nor the author has assumed any responsibility for liability associated with the trees on or adjacent to this property, and/or any damage which may result.