

THE PACIFIC RESOURCES GROUP

March 28, 2019

Mr. Gus Fischer, AIA, Partner Dreyfuss + Blackford Architecture 3540 Folsom Boulevard, Sacramento, CA 95816-6699

Subject: PGE Tualatin Phase 1 Tree Assessment

Dear Mr. Fischer,

As requested, I have completed my assessment of the Phase 1 portion of the PGE site. I assessed approximately 269 trees on the accompanying chart. The trees have all been tagged with metal tags, the numbers on the tags correspond to those on the survey and on the chart. My findings are as follows.

OBSERVATIONS

The first phase of this project, shown in green on the conceptual site plan dated 2/21/19 contains slightly more than one third of the trees that have been surveyed. Data the City requires and my additional observations are included in the accompanying chart. The trees on the Phase 1 part of the site are located in the west central and south end of the site. Most of the site is open pasture or was recently graded during the construction of SW 124 street on the west border. Soil depth is shallow in the south quarter of the site. Rocks protrude over much of this area and indicate poor growing conditions for many trees. The best illustration of this can be seen in the road cut along SW 124th Street south of Tualatin Sherwood Road where the shallow soil over fractured rock is exposed. The shallow soil and perched water tables in some areas are also noted in some of the soil test pits and bore holes performed by GRI.

Shallow soil results in challenging growing conditions for trees due to limited space for root systems and limited soil moisture retention during hot and dry summers. These conditions explain why the trees on the site are close in size. Young trees tend to grow rapidly as long as available rooting space, soil moisture and nutrients is not limited. Once the limited rooting space is used up, the insufficient amount of moisture and nutrients cause growth to stagnate and tree health to decline. Trees that were growing rapidly slow down and nearly stop growing. This is the issue for many of the young trees under 12" in diameter that I assessed. Much of the area in the wooded portion of the southwest quarter of the site was rocky and the trees were in fair to poor health. Many had dead tops, which

CONSULTING ARBORISTS • URBAN FORESTERS • LANDSCAPE ARCHITECTS • PLANT APPRAISERS • LAND MANAGERS • NATURAL RESOURCE CONSULTANTS

was most likely due to Douglas Fir Bark Beetle infestation. This insect attacks trees in poor or declining health.

The rocky and drought stricken area in the southwest quarter is not conducive for Douglas Fir, Bigleaf Maple or other species that prefer deeper moisture retaining soils, but is conducive for Oregon White Oak, Hawthorn and Pacific Madrone that favor dryer soils. Shallow soil also means that most of the roots of trees and other woody plants are concentrated in the top few inches. The shallow dense roots are noted in the upper most soil profile in the soil test pits TP-5, 6, 7 & 8. Soil depth increases towards the north and east of the southwest quarter of the site.

CONCLUSIONS AND RECOMMENDATIONS

Tree preservation is problematic in areas with shallow soils for several reasons. The existing conditions do not allow trees to achieve their expected sizes when their growth rate declines, stalls and they become highly vulnerable to insect attack and disease. In areas where trees are closely spaced, the competition for limited moisture and nutrients can accelerate declining health. Trees with shallow root systems are also highly vulnerable to damage from any disturbance during grading or excavation. Excavation related root loss can destabilize trees when such root loss is extensive and occurs less than 15' from the base of a tree. Destabilized trees can be hazards to pedestrians, vehicles or structures within their reach when they fall. Many trees in the southwest corner of the site are subject to inhospitable growing conditions and may have limited life spans.

Decisions on the retention or removal of such trees need to be made on a case by case basis. Any trees growing in shallow rocky soil that is in the area to be excavated or that will experience grading that disturbs the surface are likely to be candidates for removal. Those further to the north and east and in areas where soils are deeper and where the soil surface will be left undisturbed may be candidates for retention. Decisions on trees to be removed or retained that are outside buildings, paved and excavated areas will have to wait until more precise information becomes available as planning progresses.

Tree protection will be necessary for trees to remain. Once construction drawings are being prepared I can make more specific recommendations on the location of tree protection fencing. In areas outside construction limits that will remain undisturbed, erosion control fencing will provide adequate protection for trees. For trees planned to be retained within the construction limits and where construction activities will be underway, I recommend one of two fencing types. For any tree or group of trees that will remain undisturbed 15' or more from the tree for the duration of construction, chain link fencing provides the best protection. For any tree or groups of trees where some disturbance will occur near or within the drip line(s) I recommend 4' or taller orange plastic construction fencing on metal "T" stakes. If the fencing is required to be temporarily removed for access or construction activities, any work within the tree protection area should be observed by the Project Arborist and the fencing should be replaced at the end of the workday. Once construction drawings are completed and trees to be retained have been identified, I can provide additional recommendations on tree protection and post construction tree care.

I hope I have addressed all the issues you asked about, but if I omitted any information or if you have any questions please do not hesitate to contact me. Thank you.

Sincerely yours,

tiple F. To

Stephen F. Goetz, Principal American Society of Consulting Arborists Reg #260 American Society of Landscape Architects, Oregon Lic. #80 Society of American Foresters

SG:mac

<u>ARBORIST DISCLOSURE STATEMENT</u>: Arborists are tree specialists who use their education, knowledge, training and experience to examine trees, recommend measures to enhance their health and beauty and to attempt to reduce the risk of living near trees. Clients may choose to accept or disregard the recommendations of the arborist or to seek additional advice. Trees and other plant life are living, changing organisms affected by innumerable factors beyond our control. Trees fail in ways and because of conditions we do not fully understand. Arborists cannot detect or anticipate every condition or event that could possibly lead to the structural failure of a tree. Conditions are often hidden within the trees and below ground. Arborists cannot guarantee that a tree will be healthy or safe under all circumstances, for any specific period or when a tree or its parts may fail. Further, remedial treatments, as with any treatment or therapy, cannot be guaranteed. Treatment, pruning, bracing and removal of trees may involve considerations beyond the scope of the arborists skills and usual services such as the boundaries of properties, property ownership, site lines, neighbor disputes and agreements and other issues. Therefore, arborists cannot consider such issues unless complete and accurate information is disclosed in a timely fashion. Then, the arborist can be expected, reasonably, to rely upon the completeness and accuracy of the information provided. Trees can be managed but not controlled. To live near trees, regardless of their condition, is to accept some degree of risk. The only way to eliminate all risk associated with trees is to eliminate all trees.

HAZARD/HAZARD POTENTIAL: For the purposes of this evaluation and/report, hazard/hazard potential refers to a tree or tree part that presents a threat to humans, livestock, vehicles, structures, landscape features or other entity of civilization from uprooting, falling, breaking or growth development (e.g., roots). While all large landscape trees in proximity to such targets present some degree of hazard regardless of their condition, such inherent hazard is not intended as within this definition and its usage in this evaluation and report.

<u>INSPECTION LIMITATIONS</u>: The inspection of these trees consisted solely of a visual inspection from the ground. While more thorough techniques are available for inspection and evaluation, they were neither requested nor considered necessary or appropriate at this time. As trees and other plant life are living, changing organisms effected by innumerable factors beyond our control, The Pacific Resources Group and it's personnel offer no guarantees, stated or implied, as to tree, plant or general landscape safety, health, condition or improvement, beyond that specifically stated in writing in accepted contracts.

	D'		т	C				
Tag No	Dia. Inches	Species	Trunk Condition	Crown Devlmnt	Structure	Comments	Health	Condition
ing ito	2,2,2,2,1.5,	Species	condition	2 t i mpt	Structure			Moderate & non-correctable
10094	1.5,1,1	Douglas Hawthorn	5	5	5	Small shrubby tree	Good	defects
	2,2,1.5,1.5,							Moderate & non-correctable
10095	1,1,1,1,1,1	Douglas Hawthorn	5	3	5	Small shrubby tree	Good	defects
								Moderate & non-correctable
10096	14"	Pacific Madrone	5	3	5	Full asymetric crown	Excellent	
								Moderate & non-correctable
10098	9"	Pacific Dogwood	5	1	5	Partial crown due to crowding	Fair	defects
10000		D 10 10 1			_			Moderate & non-correctable
10099	14"	Pacific Madrone	5	3		Partial crown due to crowding	Good	defects
10100	5"	Douglas Fir	5	5	5	Full crown'	Excellent	Sound – No obvious defects
							Dead	
10207	14"	Pacific Madrone	1	1	1		Dying	Major defects or problems
10209	10// 11//	De l'Ge De come d	5	5	5		Carl	Moderate & non-correctable
10208	10",11"	Pacific Dogwood	5	5	3	2 stems at 2', full crown	Good	defects
10265	14" & 16"	Pacific Madrone	5	3	5	Fine to medium deadwood in crown	Good	Moderate & non-correctable defects
10203	14 a 10		5	3	5		0000	Moderate & non-correctable
10322	5" & 7"	Douglas Fir	5	5	5		Good	defects
10322	5 u /	Douglus I II	5	5	5		0000	Moderate & non-correctable
10342	12" & 17"	Pacific Madrone	5	3	5		Good	defects
			-	-	-			Few & minor or correctable
10343	22"	Pacific Madrone	5	5	3		Good	defects
								Few & minor or correctable
10980	7"	English Holly	5	3	5		Good	defects
-								Moderate & non-correctable
10985	19"	Pacific Madrone	5	5	5		Good	defects
								Moderate & non-correctable
11007	2-6"	Douglas Fir	5	5	5	2 stems at ground form single full crown	Good	defects
				_	_		~ .	Moderate & non-correctable
11030	13"	Douglas Fir	5	5	5		Good	defects
12129	12"	English Holly	5	5	5	Full crown	Excellent	
12134	8"	Holly	5	5	5	Full crown	Excellent	Sound - No obvious defects
								Few & minor or correctable
12147	22"	Hawthorn species	5	5	5	4 stems at 4.5', full crown	Good	defects
						Full crown, extensive internal decay & hollow trunk.		
12149	16"	Apple	1	3	3	Potential Hazard.	Fair	Major defects or problems

Tag No	Dia. Inches	Species	Trunk Condition	Crown Devlmpt	Structure	Comments	Health	Condition
		-						Moderate & non-correctable
12150	8", 6"	English Holly	5	3	5	Partial crown due to crowding by building	Good	defects
								Moderate & non-correctable
12151	6,4,4,3,3,2"	Western Red Cedar	5	5	5	Shrubby tree with full dense crown due to shearing	Good	defects
				_	_			Few & minor or correctable
12182	14"	Douglas Fir	5	5	5	Full crown	Good	defects
			_		_			Few & minor or correctable
14374	14"	Douglas Fir	5	3	5		Good	defects
			_		_			Few & minor or correctable
14376	17"	Douglas Fir	5	3	5		Good	defects
1 42 50			_	2			. ·	Moderate & non-correctable
14378	18"	Douglas Fir	5	3	l		Fair	defects
14379	11"	Douglas Fir	1	1	1		Poor	Major defects or problems
								Few & minor or correctable
14380	20"	Pacific Madrone	5	5	5		Excellent	defects
							Dead	
14382	9"	Douglas Fir	1	1	1	Dead	Dying	Hazard Remove
							Dead	
14386	11"	Douglas Fir	1	1	1	Dead	Dying	Hazard Remove
							Dead	
14389	6"	Douglas Fir	1	1	1		Dying	Hazard Remove
								Moderate & non-correctable
14390	17"	Douglas Fir	5	5	5		Good	defects
								Moderate & non-correctable
14392	16"	Pacific Madrone	5	3	3		Good	defects
14393	6"	Douglas Fir	5	3	1		Poor	Major defects or problems
								Moderate & non-correctable
14394	12" & 13"	Pacific Madrone	5	1	5		Good	defects
								Few & minor or correctable
14397	8"	English Holly	5	5	5		Good	defects
14767	13"	Douglas Fir	5	5	5	Full crown	Good	Sound, no obvious defects
								Few & minor or correctable
14777	14"	Bigleaf Maple	5	5	5	Full crown	Good	defects
								Moderate & non-correctable
14778	11"	Douglas Fir	5	3	5	Partial crown due to crowding	Good	defects
								Moderate & non-correctable
14779	6"	Douglas Fir	5	3	3	Partial crown due to crowding	Fair	defects

Tag No	Dia. Inches	Species	Trunk Condition	Crown Devlmpt	Structure	Comments	Health	Condition
		1						Moderate & non-correctable
14780	12"	Douglas Fir	5	3	5	Partial crown due to crowding	Fair	defects
								Moderate & non-correctable
14781	8"	Douglas Fir	5	3	5	Partial crown due to crowding	Fair	defects
								Moderate & non-correctable
14783	12"	Douglas Fir	5	3	3	Partial crown due to crowding	Good	defects
14706	0.11							Moderate & non-correctable
14786	9"	Douglas Fir	5	3	3	Partial crown due to crowding	Good	defects
14707	111	Davida Ein	5	2	2	Destin Lances des secondine	E.t.	Moderate & non-correctable
14787	11"	Douglas Fir	5	3	3	Partial crown due to crowding	Fair	defects
14788	9"	Douglas Fir	3	3	2	Partial crown due to crowding, cankers on trunk, Do Not Preserve	Fair	Major defects or problems
14/00	9	Douglas Fil	5	5	5	Tieserve	1'all	Moderate & non-correctable
14789	12"	Douglas Fir	5	5	5	Partial crown due to crowding	Good	defects
14707	12	Douglus I II		5	5		0000	Few & minor or correctable
14791	15"	Douglas Fir	5	5	3	Nearly full crown	Good	defects
								Few & minor or correctable
14796	13"	Douglas Fir	5	3	3	Partial crown due to crowding	Good	defects
14797	15"	Douglas Fir	5	1	3	Partial crown due to crowding Topped at 35' and regrown	Good	Major defects or problems
								Moderate & non-correctable
14798	7"	Douglas Fir	5	3	3	Partial crown due to crowding	Good	defects
								Moderate & non-correctable
14799	6"	Douglas Fir	5	3	3	Partial crown due to crowding	Good	defects
14807	11"	Douglas Fir	5	5	3	Full crown	Excellent	Sound, no obvious defects
1 40 50	1.0.11	D 1 5'						Few & minor or correctable
14858	13"	Douglas Fir	5	3	3	Full crown	Good	defects
14861	11"	Pacific Madrone						Moderate & non-correctable
14801	11	Pacific Madrone	5	1	1	Partial crown due to crowding	Good	defects
14862	11"	Pacific Madrone						Moderate & non-correctable
14802			5	1	1	Partial crown due to crowding	Good	defects
14875	9"	Douglas Fir	5	5	3	Full crown	Good	Sound, no obvious defects
14876	7"	Douglas Fir						Moderate & non-correctable
14070	/	Douglas Fil	5	3	3	Partial crown due to crowding	Good	defects
14878	6"	Douglas Fir				Partial crown due to crowding Top broken out at 15'. Poor		
14070	<u> </u>		3	1	1	specimen will not recover. Do Not Preserve.	Fair	Major defects or problems
14879	13"	Pacific Madrone	_	_	_			Moderate & non-correctable
1.077			5	3	5	Nearly full crown	Good	defects

Tag No	Dia. Inches	Species	Trunk Condition	Crown Devlmpt	Structure	Comments	Health	Condition
14880	21"	Douglas Fir	5	5	5	Full crown	Excellent	
14884	8"	Oregon White Oak	5	5	5	Full crown	Good	Few & minor or correctable defects
14892	13"	Pacific Madrone	5	5	5		Excellent	Sound, no obvious defects
14898	8"	Bigleaf Maple	5	5	5		Excellent	Sound, no obvious defects
14901	8" & 10"	Hooker Willow	1	3	3	Moderate amount of fine to medium deadwood in crown. Hollow cavity in lower trunk.	Fair	Moderate & non-correctable defects
14906	6" & 14"	Douglas Fir	5	1	1	Top 40% of tree is dead. Poor specimen, Do Not Preserve	Fair	Major defects or problems
14907	13"	Douglas Fir	5	3	5	Partial crown due to crowding	Good	Moderate & non-correctable defects
14908	6" & 11"	Douglas Fir	5	3	5	Partial crown due to crowding	Good	Moderate & non-correctable defects
14924	17"	Hooker Willow	5	5	3	Full crown, some medium deadwood and structural	Good	Moderate & non-correctable defects
14927	15"	Douglas Fir	5	5	5	Full crown	Excellent	Sound, no obvious defects
14928	11"	Douglas Fir	5	3	5	Partial crown due to crowding	Fair	Moderate & non-correctable defects
14929	18"	Douglas Fir	5	3	5	Partial crown due to crowding	Fair	Moderate & non-correctable defects
14930	17"	Douglas Fir	5	5	5	Full crown	Excellent	Sound, no obvious defects
14932	16"	Douglas Fir	5	3	5	Partial crown due to crowding	Excellent	Few & minor or correctable defects
14933	24"	Douglas Fir	5	3	5	Partial crown due to crowding	Fair	Few & minor or correctable defects
15000	11"	Pacific Madrone	5	3	3		Good	Moderate & non-correctable defects
15001	21"	Oregon White Oak	5	5	5		Good	Few & minor or correctable defects
15002	6"	Douglas Fir	5	5	1	Dead top	Dead Dying	Major defects or problems
15003	6"	Douglas Fir	1	1	1	Dead	Dead Dying	Major defects or problems
15004	6"	Douglas Fir	5	3	3		Dead Dying	Major defects or problems

Tag No	Dia. Inches	Species	Trunk Condition	Crown Devlmpt	Structure	Comments	Health	Condition
15005	23"	Douglas Fir	5	3	1	Dying from top down and from branch tips in	Dead Dying	Major defects or problems
15006	10"	Douglas Fir	5	1	1	Dying from top down and from branch tips in	Dead Dying	Major defects or problems
15007	7" & 16"	Pacific Madrone	5	3	5		Excellent	Few & minor or correctable defects
15008	6" & 16"	Pacific Madrone	5	3	5		Excellent	Moderate & non-correctable defects
15009	8"	Pacific Madrone	Dead				Dead Dying	Hazard
15010	6"	Douglas Fir	5	1	1	Dying from top down and from branch tips in	Dead Dying	Major defects or problems
15011	6"	Douglas Fir	Dead				Dead Dying	Hazard
15012	6"	Douglas Fir	5	3	1	Dying from top down and from branch tips in	Dead Dying	Major defects or problems
15013	13"	Douglas Fir	5	3	1	Topped at 20' and regrown, in severe decline	Poor	Major defects or problems
15014	8"	Douglas Fir	Dead			Dead stump	Dead Dying	Dead Stump
15015	6" & 7"	Common Hawthorn	5	3	1		Poor	Moderate & non-correctable defects
15016	6" & 13"	Pacific Madrone	5	3	3		Fair	Few & minor or correctable defects
15017	22"	Pacific Madrone	5	5	5		Excellent	Few & minor or correctable defects
15018	12"	Pacific Madrone	5	3	5		Good	Moderate & non-correctable defects
15019	16"	Pacific Madrone	5	3	5		Good	Moderate & non-correctable defects
15020	13"	Pacific Madrone	5	3	5		Good	Moderate & non-correctable defects
15021	9"	Douglas Fir	5	5	5	Partial crown due to crowding	Fair	Moderate & non-correctable defects
15022	9"	Douglas Fir	5	5	5	Partial crown due to crowding	Fair	Moderate & non-correctable defects
15023	8"	Douglas Fir	5	1	1	Topped at 4' and regrown. Poor specimen, Do Not Preserve	Poor	Major defects or problems
15024	6"	Douglas Fir	5	1	1	Dead top	Fair	Major defects or problems

Tag No	Dia. Inches	Species	Trunk Condition	Crown Devlmpt	Structure	Comments	Health	Condition
15025	0"	Davida Eir	5	2	2		De: h	Moderate & non-correctable
15025	8"	Douglas Fir	5	3	3		Fair Dead	defects
15026	9"	Douglas Fir	5	1	1	Dying from top down and from branch tips in	Dead	Major defects or problems
-							Dead	
15027	14"	Douglas Fir	5	3	1	No annual twig growth, dying	Dying	Major defects or problems
							Dead	
15028	7"	Douglas Fir	1	3	1	Dead top	Dying	Major defects or problems
15020	1.51			_			г ·	Moderate & non-correctable
15029	15"	Douglas Fir	5	5	3	Partial crown due to crowding	Fair	defects
15030	6"	Douglas Fir	5	3	1	Dying from top down and from branch tips in	Dead Dying	Major defects or problems
13030	0	Douglas Fil	5	3	1		Dying	Major defects of problems
15031	12"	Douglas Fir	5	3	3	Topped at 12' and regrown. Poor specimen, Do Not Preserve	Fair	Major defects or problems
							Dead	
15032	7"	Douglas Fir	Dead				Dying	Hazard
								Moderate & non-correctable
15033	16"	Pacific Madrone	5	5	5	Swoop in trunk, some decay at base	Fair	defects
1.50.0.1	1.01				_		a 1	Few & minor or correctable
15034	18"	Pacific Madrone	5	3	5	Full narrow crown with some fine deadwood	Good	defects
15025				_				Few & minor or correctable
15035	6"	Douglas Hawthorn	5		5	Full crown with good annual twig growth	Good	defects
15036	7"	Douglas Fir	5	1	1		Fair	Major defects or problems
1 500 5	1.61		-			Dead top, moderate amount of deadwood in crown. Blight	. .	Moderate & non-correctable
15037	16"	Pacific Madrone	5	3	1	on foliage in parts of crown.	Fair	defects
15020	11"	Desifie Meducus	5	1	1	Dead top, moderate amount of deadwood in crown. Blight	Fair	Moderate & non-correctable defects
15038	11"	Pacific Madrone	5	1	1	on foliage in parts of crown.	Fair	defects
15039	8"	Douglas Fir	5	1	1	Top dead, will not recover. Poor specimen, Do Not Preserve	Poor	Major defects or problems
							Dead	
15040	7"	Douglas Fir	5	1	1	Top dead, will not recover. Poor specimen, Do Not Preserve	Dying	Major defects or problems
15041	7"	Douglas Fir	5	1	1	Top dead, will not recover. Poor specimen, Do Not Preserve	Poor	Major defects or problems
						Dying from top down and from branch tips in, yellowing		
15042	7"	Douglas Fir	5	1	1	foliage	Poor	Major defects or problems
		-						Moderate & non-correctable
15338	14"	Pacific Madrone	5	5	5	Full crown, with swoop in trunk from 0' to 7'	Excellent	

Tag No	Dia. Inches	Species	Trunk Condition	Crown Devlmpt	Structure	Comments	Health	Condition
15341	13"	Douglas Fir	5	5	5	Full crown	Excellent	Sound – No obvious defects
15342	13"	Douglas Fir	5	5	5	Full crown	Excellent	Sound – No obvious defects
15346	11"	Douglas Fir	5	1	5	Topped at 18', poor specimen. Do Not Preserve	Good	Major defects or problems
15347	14"	Douglas Fir	5	1	5	Partial crown due to crowding. Topped at 30'.	Good	Major defects or problems
15348	11"	Douglas Fir	5	3	5	Partial crown due to crowding.	Good	Moderate & non-correctable defects
15352	10"	Douglas Fir	5	5	5	Full crown	Fair	Few & minor or correctable defects
16009	12"	Douglas Fir	5	3	5	Partial crown due to crowding.	Good	Moderate & non-correctable defects
16010	11"	Douglas Fir	5	3	5	Partial crown due to crowding.	Fair	Moderate & non-correctable defects
16013	11"	Douglas Fir	5	3	5	Partial crown due to crowding.	Good	Moderate & non-correctable defects
16014	16"	Douglas Fir	5	3	5	Partial crown due to crowding.	Good	Moderate & non-correctable defects
16015	11"	Douglas Fir	5	3	5	Partial crown due to crowding.	Good	Moderate & non-correctable defects
16016	9" & 12"	Douglas Fir	3	3	5	Partial crown due to crowding.	Fair	Moderate & non-correctable defects
16017	15"	Douglas Fir	5	3	5	Partial crown due to crowding.	Fair	Moderate & non-correctable defects
16018	15"	Douglas Fir	5	3	5	Partial crown due to crowding.	Good	Moderate & non-correctable defects
16019	10"	Douglas Fir	5	3	5	Partial crown due to crowding.	Good	Moderate & non-correctable defects
16021	16"	Douglas Fir	5	3	5	Partial crown due to crowding.	Fair	Moderate & non-correctable defects
16022	11"	Douglas Fir	5	3	5	Partial crown due to crowding.	Fair	Moderate & non-correctable defects
16023	10"	Douglas Fir	5	3	5	Partial crown due to crowding.	Fair	Moderate & non-correctable defects
16024	15"	Douglas Fir	5	3	5	Partial crown due to crowding.	Fair	Moderate & non-correctable defects
16026	11"	Douglas Fir	5	5	5	Full thin crown with below average annual twig growth	Poor	Few & minor or correctable defects

Tag No	Dia. Inches	Species	Trunk Condition	Crown Devlmpt	Structure	Comments	Health	Condition
16038	9"	Douglas Fir						Moderate & non-correctable
10038	9	Douglas Fil	5	5	5	Full crown	Good	defects
16051	10"	Douglas Fir	5	5	5	Full crown	Fair	Few & minor or correctable defects
16052	12"	Douglas Fir	5	3	5	Partial crown due to crowding.	Good	Moderate & non-correctable defects
16053	8"	Douglas Fir	5	3	5	Partial crown due to crowding.	Good	Moderate & non-correctable defects
16058	13"	Douglas Fir	5	3	5	Partial crown due to crowding.	Fair	Moderate & non-correctable defects
16061	10"	Douglas Fir	5	3	5	Partial crown due to crowding.	Fair	Moderate & non-correctable defects
16066	16"	Douglas Fir	5	5	5	Full crown	Good	Few & minor or correctable defects
16067	16"	Douglas Fir	5	5	5	Full crown	Good	Few & minor or correctable defects
16069	14"	Douglas Fir	5	3	5	Partial crown due to crowding.	Fair	Moderate & non-correctable defects
16070	11"	Douglas Fir	5	3	5	Partial crown due to crowding.	Fair	Moderate & non-correctable defects
16071	8"	Douglas Fir	5	3	5	Partial crown due to crowding.	Fair	Moderate & non-correctable defects
16072	15"	Douglas Fir	5	3	5	Partial crown due to crowding.	Good	Moderate & non-correctable defects
16073	12"	Douglas Fir	5	3	5	Partial crown due to crowding.	Good	Moderate & non-correctable defects
16074	9"	Douglas Fir	5	3	5	Partial crown due to crowding.	Fair	Moderate & non-correctable defects
16075	10"	Douglas Fir	5	3	5	Partial crown due to crowding.	Fair	Moderate & non-correctable defects
16076	13"	Douglas Fir	5	3	5	Partial crown due to crowding.	Fair	Moderate & non-correctable defects
16077	9"	Douglas Fir	5	3	5	Partial crown due to crowding. Codominant stems at 18', poor specimen. Do Not Preserve.	Fair	Moderate & non-correctable defects
16079	13"	Douglas Fir	5	3	5	Partial crown due to crowding.	Fair	Moderate & non-correctable defects

Tag No	Dia. Inches	Species	Trunk Condition	Crown Devlmpt	Structure	Comments	Health	Condition
16080	13"	Douglas Fir	5	3	5	Partial crown due to crowding.	Good	Moderate & non-correctable defects
				5	5		Good	Moderate & non-correctable
16081	14"	Douglas Fir	5	3	5	Partial crown due to crowding.	Fair	defects
								Moderate & non-correctable
16082	14"	Douglas Fir	5	3	5	Partial crown due to crowding.	Fair	defects
1 (0 0 4		D 1 D'						Moderate & non-correctable
16084	7"	Douglas Fir	5	3	5	Small thin pfartial crown due to crowding.	Fair	defects
16085	11"	Douglas Fir						Moderate & non-correctable
16085	11	Douglas Fir	5	3	5	Partial crown due to crowding.	Fair	defects
16086	13"	Douglas Fir						Moderate & non-correctable
10080	15		5	3	5	Partial crown due to crowding.	Good	defects
16089	15"	Douglas Fir			_			Moderate & non-correctable
10003	10	Douglus I II	5	3	5	Partial crown due to crowding.	Good	defects
16090	8"	Hooker Willow		2		Destint second to the second in a	E . in	Moderate & non-correctable
	-		5	3	3	Partial crown due to crowding.	Fair	defects
1(002	1.011					Full crown with below average annual twig growth. All roots on south side were severed by road cut 6' from base.		
16093	12"	Douglas Fir	5	5	5	Tree is not stable. Remove.	Poor	Hazard
				5	3	Very thin partial crown due to crowding. Poor annual twig	1 001	
16094	11"	Douglas Fir				growth. All roots were severed on south side by road cut 5'		
10074	11	Douglus I II	5	3	5	from base. Tree is not stable. Remove.	Poor	Hazard
								Few & minor or correctable
16095	13"	Douglas Fir	5	5	5	Full crown	Good	defects
1(00)	1.7.11							Moderate & non-correctable
16096	16"	Douglas Fir	5	3	5	Partial crown due to crowding.	Fair	defects
16123	13"	Douglas Fir						Few & minor or correctable
10125	15	Douglas Fir	5	5	5	Full crown	Good	defects
16136	13"	Douglas Fir						Moderate & non-correctable
10150	15		5	3	5	Partial crown due to crowding.	Excellent	
16137	15"	Douglas Fir			_			Moderate & non-correctable
10157	1.5	Douglus I II	5	3	5	Partial crown due to crowding.	Excellent	
16138	13"	Douglas Fir		.	۔ ا	Destin Lawrence das de conservations	E 11 ·	Moderate & non-correctable
			5		5	Partial crown due to crowding.	Excellent	
16140	7"	Douglas Fir	5	1	5	Partial crown due to crowding.	Good	Moderate & non-correctable defects
		Ĩ	3		3	i artiai crown due to crowding.	0000	uerecis

Tag No	Dia. Inches	Species	Trunk Condition	Crown Devlmpt	Structure	Comments	Health	Condition
16141	14"	Douglas Fir	5	1	5	Partial crown due to crowding.	Excellent	Moderate & non-correctable defects
16148	12"	Douglas Fir	5	5	5	Nearly full crown	Excellent	Few & minor or correctable defects
16149	6"	Pacific Madrone	5	1	5	Subdominant partial crown. Swoop in trunk.	Good	Major defects or problems
16150	10"	Pacific Madrone	5	3	5	Partial crown due to crowding.	Good	Moderate & non-correctable defects
16151	11"	Douglas Fir	5	3	5	Nearly full crown	Good	Moderate & non-correctable defects
16152	12"	Douglas Fir	5	3	5	Partial crown due to crowding.	Fair	Moderate & non-correctable defects
16154	14"	Douglas Fir	5	3	5	Partial crown due to crowding.	Good	Moderate & non-correctable defects
16156	12"	Douglas Fir	5	3	5	Partial crown due to crowding.	Excellent	Moderate & non-correctable defects
16159	7" & 7"	Pacific Madrone	5	5	5	Full crown, 2 stems at ground	Excellent	Few & minor or correctable defects
16164	9"	Douglas Fir	5	5	5	Full crown	Excellent	Sound – No obvious defects
16164 В	8,6,6	Pacific Madrone	5	3	5	Full asymetric crown, 3 stems at 1'.	Good	Moderate & non-correctable defects
16178	8" & 8"	Pacific Madrone	5	3	5	Partial crown due to crowding.	Excellent	Moderate & non-correctable defects
16205	13"	Douglas Fir	5	5	5	Full crown	Good	Few & minor or correctable defects
16207	14"	Douglas Fir	5	5	5	Full crown	Good	Few & minor or correctable defects
16208	11"	Douglas Fir	5	5	5	Full crown	Fair	Few & minor or correctable defects
16209	13"	Douglas Fir	5	3	5	Partial crown due to crowding.	Fair	Moderate & non-correctable defects
16213	12"	Douglas Fir	5	3	5	Very thin partial crown due to crowding.	Fair	Moderate & non-correctable defects
16215	15"	Douglas Fir	5	3	5	Partial crown due to crowding.	Fair	Moderate & non-correctable defects
16216	13"	Douglas Fir	5	3	5	Very thin partial crown due to crowding.	Fair	Moderate & non-correctable defects

Tag No	Dia. Inches	Species	Trunk Condition	Crown Devlmpt	Structure	Comments	Health	Condition
16217	11"	Douglas Fir		-				Moderate & non-correctable
10217	11	Douglas Fli	5	3	5	Very thin partial crown due to crowding.	Fair	defects
16218	13"	Douglas Fir						Moderate & non-correctable
10218	15	Douglas I'll	5	3	5	Partial crown due to crowding.	Fair	defects
16219	15"	Pacific Madrone			_			Moderate & non-correctable
10217	15	i defile Middrolle	5	3	5	Partial asymetric crown due to crowding.	Fair	defects
16242	13"	Douglas Fir		-		P 11	G 1	Few & minor or correctable
102.12	15	Douglus I II	5	5	5	Full crown	Good	defects
16243	18"	Douglas Fir		2			C 1	Moderate & non-correctable
			5	3	5	Partial crown due to crowding.	Good	defects
16245	14"	Douglas Fir	5	3	5	Partial crown due to crowding.	Fair	Major defects or problems
16246	11" & 9"	Hooker Willow				Partial crown due to crowding. Hollow trunk and moderate		
10240	11 a)	HOOKEI WIIIOW	1	3	1	amount of medium to large deadwood in the crown.	Fair	Major defects or problems
16248	15"	Douglas Fir					a 1	Moderate & non-correctable
10210	15	Douglus I II	5	3	5	Partial crown due to crowding.	Good	defects
16249	14"	Douglas Fir					л ·	Moderate & non-correctable
10219	11	Douglus I II	5	3	5	Partial crown due to crowding.	Fair	defects
16250	13"	Douglas Fir		2			г ·	Moderate & non-correctable
			5	3	3	Partial crown due to crowding.	Fair	defects
16251	13"	Douglas Fir		2	_	Deuti-1 - manual de la succedire	D .:	Moderate & non-correctable
	-		3	3	3	Partial crown due to crowding.	Fair	defects
16255	13"	Douglas Fir		2	_	Deuti-1 - manual de la succedire	D .:	Moderate & non-correctable defects
			3	3	3	Partial crown due to crowding.	Fair	Moderate & non-correctable
16256	10"	Douglas Fir	5	3	1	Partial crown due to crowding.	Fair	defects
			3	3	1	Partial crown due to crowding. Poor annual twig growth. All	ган	defects
1(257	14"	Derester Ein				roots on south side were severed 3' off the base. This tree is		
16257	14"	Douglas Fir	5	3	5	not stable. Remove.	Poor	Hazard
				5	3	not succe. Remove.	1 001	Moderate & non-correctable
16258	12"	Douglas Fir	5	3	5	Dead lower crown, poor annual twig growth.	Poor	defects
						Subdominant tree with crown less than 5% of normal. Poor	1 001	
16259	6"	Douglas Fir	5	1	1	specimen, Do Not Preserve.	Poor	Major defects or problems
16260	8"	Douglas Fir	5	1	1	Tiny partial crown due to crowding.	Poor	Major defects or problems
10200	0			1			1 001	Moderate & non-correctable
16261	13"	Douglas Fir	5	3	5	Partial crown due to crowding.	Fair	defects
							1 411	Moderate & non-correctable
16263	15"	Douglas Fir	5	3	5	Partial crown due to crowding.	Good	defects

Tag No	Dia. Inches	Species	Trunk Condition	Crown Devlmpt	Structure	Comments	Health	Condition
16264	12"	Douglas Fir	5	3	5	Partial crown due to crowding.	Fair	Moderate & non-correctable defects
16267	12"	Douglas Fir	5	3		Partial crown due to crowding.	Fair	Moderate & non-correctable defects
16268	14"	Douglas Fir	5	3	5	Partial crown due to crowding.	Good	Moderate & non-correctable defects
16271	13"	Douglas Fir	5	1	1	Lower crown is dead, very poor annual twig growth. Poor specimen, Do Not Preserve.	Poor	Major defects or problems
16272	11"	Douglas Fir	5	1	1	Lower crown is dead, very poor annual twig growth. Poor specimen, Do Not Preserve.	Poor	Major defects or problems
	14",7", 3"	Bird Cherry	5	5	5	Full crown. 6' of trunk is on ground where tree toppled over and side branch grew vertical forming main trunk.	Good	Major defects or problems
16273	11"	Douglas Fir	5	1	1	Lower crown is dead, very poor annual twig growth. Poor specimen, Do Not Preserve.	Poor	Major defects or problems
16274	11"	Douglas Fir	5	1	1	Lower crown is dead, very poor annual twig growth. Poor specimen, Do Not Preserve.	Poor	Major defects or problems
16277	18"	Pacific Madrone	5	5	5	Full crown	Good	Few & minor or correctable defects
16285	13"	Bird Cherry	1	1	1	Top broken out at 9'. Significant decay in trunk. Poor specimen. Do Not Preserve.	Fair	Major defects or problems
16289	16"	Douglas Fir	5	3	5	Partial crown due to crowding.	Good	Moderate & non-correctable defects
16291	14"	Douglas Fir	5	5	5	Full crown	Fair	Few & minor or correctable defects
16293	19"	Douglas Fir	5	3	5	Partial crown due to crowding.	Good	Moderate & non-correctable defects
16298	15"	Douglas Fir	5	3	5	Partial crown due to crowding.	Good	Moderate & non-correctable defects
16302	18"	Douglas Fir	5	5	5	Full crown	Good	Few & minor or correctable defects
16322	14"	Douglas Fir	5	3	5	Full crown. 2 codominant stems at 20'	Good	Moderate & non-correctable defects
16323	12"	Douglas Fir	5	3	5	Partial crown due to crowding	Good	Moderate & non-correctable defects
16324	13"	Douglas Fir	5	5	5	Full crown	Good	Few & minor or correctable defects

Tag No	Dia. Inches	Species	Trunk Condition	Crown Devlmpt	Structure	Comments	Health	Condition
		-				Full crown. Wound on lower trunk has mostly calloused		Moderate & non-correctable
16335	8"	Bird Cherry	3	5	5	over.	Good	defects
1(22)	6", 6", 8"	Pacific Madrone						Few & minor or correctable
16336	& 9"	Pacific Madrone	5	5	5	Full crown	Good	defects
16341	12"	Douglas Fir						Few & minor or correctable
10541	12	Douglas I'll	5	5	5	Full crown	Good	defects
16354	12"	Douglas Fir	_					Moderate & non-correctable
10554	12	Douglus I II	5	3	5	Partial crown due to crowding	Fair	defects
16355	12"	Douglas Fir				Partial crown due to crowding. Topped at 20', poor	л ·	
			5	1	5	specimen. Do Not Preserve.	Fair	Major defects or problems
16356	12"	Douglas Fir	5	2		Dential anorra due te anorradia e	Good	Moderate & non-correctable defects
		5	3	3	3	Partial crown due to crowding	Good	
16357	8"	Douglas Fir	5	3	5	Partial crown due to crowding	Good	Moderate & non-correctable defects
		-	5	3	3	Faitial crown due to crowding	0000	Moderate & non-correctable
16358	8"	Douglas Fir	5	3	5	Partial crown due to crowding	Good	defects
			5	5	3		Good	Moderate & non-correctable
16359	13"	Douglas Fir	5	3	5	Partial crown due to crowding	Good	defects
							0000	Moderate & non-correctable
16360	12"	Douglas Fir	5	3	5	Partial crown due to crowding	Good	defects
						C		Moderate & non-correctable
16361	15"	Douglas Fir	5	3	5	Partial crown due to crowding	Good	defects
						Full crown, with dead top at 20'. Poor specimen. Do Not		
20048	13"	Douglas Fir	5	1	1	Preserve.	Good	Major defects or problems
20049	17"	Douglas Fir	5	5	5	Full crown	Excellent	Sound – No obvious defects
								Few & minor or correctable
20051	14"	Douglas Fir	5	5	5	Full thin crown with below average annual twig growth.	Fair	defects
								Few & minor or correctable
20053	12"	Douglas Fir	5	3	5	Partial crown due to crowding	Good	defects
								Few & minor or correctable
20055	14"	Douglas Fir	5	3	5	Partial crown due to crowding	Good	defects
								Moderate & non-correctable
20059	10"	Douglas Fir	5	3	5	Partial crown due to crowding	Good	defects
					_			Moderate & non-correctable
20060	11"	Douglas Fir	5	3	5	Partial crown due to crowding	Good	defects
200(1	1.0"	December D'			۔ ا	Destistances des te encedia	C 1	Moderate & non-correctable
20061	10"	Douglas Fir	5	3	5	Partial crown due to crowding	Good	defects

Tag No	Dia. Inches	Species	Trunk Condition	Crown Devlmpt	Structure	Comments	Health	Condition
20268	21"	Douglas Fir	5	5	5	Full crown	Excellent	Sound – No obvious defects
	14"			-			Dead	
21188	(DEAD)	Douglas Fir	Dead				Dying	Hazard
							Dead	
21189	31"	Douglas Fir	1	1	1	Dying, girdled by wire wrapped around trunk	Dying	Major defects or problems
21193	43"	Douglas Fir	5	1	5	Partial (1/2) crown. Thin crown with very poor annual twig growth.	Poor	Moderate & non-correctable defects
21195	43	Douglas Fil	3	1	3	Partial $(1/2)$ crown. Thin crown with very poor annual twig	P001	Moderate & non-correctable
21196	42"	Douglas Fir	5	1	5	growth.	Poor	defects
22146	44"	Douglas Fir	5	5	5	Full crown with codominant stems at 14'	1 001	
22140	44	Evergreen	5	5	5	Tun crown with codonniant stenis at 14		
22183	23"	Magnolia	5	5	5	Full crown. Nice specimen.	Excellent	Sound – No obvious defects
						Full crown, hollow trunk with large cavity on west side.		2.00.00 0.00 0.0000
22184	21"	Apple	1	5	5	Potential Hazard	Good	Major defects or problems
	5, 5, 5, 3, 3, 3, 3, 2.5, 2.5, 2.5, 2, 2, 2, 2, 2"	Witch Hazel	5	5	5	Shrubby tree with many stems	Fair	Moderate & non-correctable defects
	10, 9, 8, 8,							Moderate & non-correctable
22201	8, 4"	Black Walnut	5	3	5	partial crow, 6 stems at ground	Fair	defects
22204	25", 24", 21"	Black Walnut	3	1	1	Full crown, 1 of 2 major stems is dead and a hazard.	Fair	Major defects or problems
22236	9", 11", 13", 17", 17", 18"	Silver Maple	3	1	1	Partial crown due to crowding. 6 stems at ground and one of the largest stems is dead.	Fair	Major defects or problems
22237	47"	Northern Red Oak	5	5	5	Full crown	Good	Few & minor or correctable defects
22238	26"	Silver Maple	5	1	3	Partial crown due to crowding	Fair	Moderate & non-correctable defects
22239	24"	Silver Maple	5	1	5	Partial crown due to crowding	Fair	Moderate & non-correctable defects
22240	37"	Willow species	5	1	5	Partial crown due to crowding	Fair	Moderate & non-correctable defects
22241	24"	Silver Maple	1	1	5	Partial crown due to crowding	Fair	Moderate & non-correctable defects

	Dia.			Crown					
Tag No	Inches	Species	Condition	Devlmpt	Structure	Comments	Health	Condition	
	6", 8", 9"						Dead		
22242	& 13"	Linden species	1	1	1	Partial crown due to crowding and most of crown is dead	Dying	Major defects or problems	
		European White						Moderate & non-correctable	
22243	16"	Birch	5	1	5	Partial crown due to crowding	Fair	defects	
-	DECIDUOUS TREES								
FA	FACTOR VARIATION OF CONDITION FACTOR								
Trunk (nk Condition Sound and Solid (5), Sections of Bark Missing (3), Extensive Decay and Hollow (1)								
Crown		Full and Balanced (5), Full but Unbalanced (3) Unbalanced and Lacking a Fulll Crown (1)							
Structure		Sound (5) One Major or Several Minor Limbs Dead (3) Two or More Limbs Dead (1)							
EVERO	GREEN/CO	DNIFEROUS TRE	CES						
FACTOR VARIATION OF CONDITION FACTOR									
	nk Condition Sound and Solid (5), Sections of Bark Missing (3), Extensive Decay and Hollow (1)								
Crown	Crown Full and Balanced (5), Full but Unbalanced (3) Unbalanced and Lacking a Full Crown (1)								
HEALT	H- E excell								
	CONDITION- A= sound B= few & correctable defects C= moderate & noncorrectable defects D= major defects or problems E= hazard, dead, dying								