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QUANTIFYING THE OAK TREE ISSUE Prepared by El Dorado Sr. Housing

For El Dorado County BOS Meeting, Jan 13, 2015

THE PREMISE

- El Dorado County gross area 1,100,000 acres (1)
- Total acreage of oaks in County 300,000 acres (2)
- Natural regeneration of oaks, acres/yr Unknown
- Percentage of area in oaks 27.2%
- Annual increase in urban land use in El Dorado Co., 1984 to 2008 (1) 516 acres
- Annual oak acreage subject to reduction as a result of development 27.2% x 516 = 140 acres
- Estimated annual reduction in oak acreage resulting from development 70% x 140 = 100 acres
- Estimated non-exempt⁽⁵⁾ reduction resulting from development 80% x 100 = 80 acres
- Estimated reduction mitigated on site 25% x 80 = 20 acres
- Estimated reduction to mitigate off site 75% x 80 = 60 acres
- Available acreage off site for mitigation 6,000 acres (3)

CONCLUSIONS

- We are losing 60 out of 300,000 acres of oak trees per year to development
- It is required to mitigate the impact of this loss
- Natural regeneration of the existing 300,000 oaks, if any, should be used to offset this loss
- Estimated cost of mitigation (without offsetting natural regeneration) 60 acres x 200 trees/ac x \$40/tree = \$480,000/yr.

SUGGESTIONS

- Determine in-lieu fee on a per-tree basis as well as on the per-acre approach
- Example, based on above estimate of mitigation costs \$8,000/acre or \$8/inch of tree diameter (4)
- Developers should be given the option of using either basis for the in-lieu fee calculation

- (1) The El Dorado County Economic and Demographic Profile, 2010-2011
- (2) Oaks 2014 The Status and Future of Oaks in California, California Oak Foundation
- (3) It was stated at the Oct 7, 2014 BOS meeting that the County has a 6,000 acre conservatory which costs \$70k/yr to operate and manage
- (4) Assume an average diameter of 5 inches per tree
- (5) Exempt acreage includes agriculture, fire protection, and public facilities



El Dorado Senior Resort. 3.1 Acres Canopy

> Maximum Allowed to Remove 0.5 Acres

Quantify the Oak Tree Issue

El Dorado County	1,100,000	Acres
Oak Tree Acreage	300,000	Acres
Estimated Annual Regeneration	Unknown	Acres/Yr
Annual Increase in Urban Land Use	516	Acres/Yr
Estimated Annual Reduction in Oaks	100	Acres/Yr
Non-Exempt Reduction	80	Acres/Yr
On-Site Mitigation	20	Acres/Yr
Off-Site Mitigation	60	Acres/Yr

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