

March 10, 2011
(20199)

Reyna Soriano
Los Angeles County Department of Public Works
900 South Fremont Avenue
Alhambra, CA 91803-1331

Subject: Tree Survey Results for the Oxford Retention Basin Flood Protection and Multiuse Enhancement Project

Dear Ms. Soriano:

Chambers Group, Inc. (Chambers Group) is pleased to submit our findings for the tree survey conducted for the Oxford Retention Basin Flood Protection and Multiuse Enhancement Project (Project) in Marina del Rey, California.

The Project site is located in an unincorporated area of Marina del Rey in the County of Los Angeles. The site is bounded on the northeast by Oxford Avenue, northwest by Washington Avenue, southeast by Admiralty Way, and southwest by the Oceana Retirement Home community. The site consists of non-native grasses, several palm trees, and non-native trees or shrubs.

METHODS

Chambers Group biologists Leslie Buena, Sarah Harris, Heather Franklin, and Covey Vane conducted a tree survey within the Oxford Basin on January 14 and February 24, 2011. All tree species within the Project site were identified. Data also was taken for all trees and shrubs within the *Myoporum* groves and other shrubs, such as *Melaleuca* sp. Plant nomenclature follows that of *The Jepson Manual: Higher Plants of California* (Hickman 1993).

During the survey, the location of each tree and shrub observed within the survey area was mapped using a sub-meter Garmin Global Positioning System (GPS) unit. The diameter at breast height (DBH) was measured for each tree with breast height defined at 4.5 feet above the ground on the uphill side of the tree. Data and notes were collected with Personal Digital Assistant (PDA) devices using Dragonfly Software.

RESULTS

A total of 455 trees and 320 shrubs were identified and measured within the Project site. All trees and shrubs observed were non-native species, except for one California fan palm (*Washingtonia filifera*). A list of plant species surveyed is shown in Table 1, and the quantities of individuals surveyed for each species is shown in Table 2. Attachment 1 shows the locations of the trees and shrubs within the Project site.

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Table 1	
Tree and Shrub Species Surveyed	
Scientific Name	Common Name
GYMNOSPERMS	
CUPRESSACEAE <i>Juniperus sp.*</i>	CYPRESS FAMILY juniper
PINACEAE <i>Pinus canariensis*</i> <i>Pinus halepensis</i> <i>Pinus pseudostrobus*</i>	PINE FAMILY Canary Island pine aleppo pine smooth-bark Mexican pine
TAXODIACEAE <i>Sequoia sempervirens</i>	BALD CYPRESS FAMILY California redwood
ANGIOSPERMS (DICOTYLEDONS)	
ANACARDIACEAE <i>Schinus molle*</i> <i>Schinus terebinthifolius*</i>	SUMAC OR CASHEW FAMILY Peruvian pepper tree Brazilian pepper tree
MORACEAE <i>Ficus benjamina*</i> <i>Ficus microcarpa*</i>	MULBERRY FAMILY weeping fig Chinese Banyan
MYOPORACEAE <i>Myoporum laetum*</i>	MYOPORUM FAMILY myoporum
MYRTACEAE <i>Callistemon comboynensis*</i> <i>Eucalyptus camaldulensis*</i> <i>Eucalyptus citriodora*</i> <i>Eucalyptus globulus*</i>	MYRTLE FAMILY cliff bottlebrush red gum lemon-scented gum blue gum
ANGIOSPERMS (MONOCOTYLEDONS)	
ARECACEAE <i>Phoenix canariensis*</i> <i>Washingtonia filifera</i> <i>Washingtonia robusta*</i>	PALM FAMILY Canary Island date palm California fan palm Mexican fan palm
MALVAEAE <i>Ceiba speciosa*</i>	MALLOW FAMILY floss silk tree
MYRTACEAE <i>Melaleuca nesophila*</i>	MYRTLE FAMILY pink melaleuca

Table 2	
Quantities of Trees and Shrubs Surveyed	
Species	Number of Individuals
TREES	
<i>Ceiba speciosa</i>	2
<i>Eucalyptus camaldulensis</i>	7
<i>Eucalyptus citridora</i>	4
<i>Eucalyptus globulus</i>	22
<i>Ficus benjamina</i>	16
<i>Ficus microcarpa</i>	1
<i>Juniper sp.</i>	1
<i>Melaleuca nesophila</i>	13
<i>Myoporum laetum</i>	300
<i>Phoenix canariensis</i>	8
<i>Pinus canariensis</i>	3
<i>Pinus halepensis</i>	14
<i>Pinus pseudostrabus</i>	2
<i>Schinus molle</i>	19
<i>Schinus terebinthifolius</i>	3
<i>Sequoia sempervirens</i>	9
<i>Washingtonia filifera</i>	1
<i>Washingtonia robusta</i>	30
Total Trees	455
SHRUBS	
<i>Ficus benjamina</i>	12
<i>Melaleuca nesophila</i>	11
<i>Myoporum laetum</i>	297
Total Shrubs	320

Measured plants were placed in size classes. The following size classes were established: Size Class A included DBH measurements from 1 to 5 inches, Size Class B included DBH measurements from 6 to 15 inches, and Size Class C included DBH measurements that were 16 inches and larger. The total number of individuals observed in each size class is shown in Table 3, and Table 4 shows each tree species measured and individuals categorized into each size class.

Table 3		
Number of Individuals per Size Class		
Size Class	Size Range (in.)	Number of Individuals
A	1 - 5	150
B	6 - 15	227
C	≥16	78

Table 4		
Species Categorized into Size Classes		
Species	Size Class	Number of Individuals
Ceiba speciosa	A	0
	B	1
	C	1
Eucalyptus camaldulensis	A	1
	B	2
	C	4
Eucalyptus citridora	A	0
	B	3
	C	1
Eucalyptus globulus	A	2
	B	5
	C	15
Ficus benjamina	A	2
	B	6
	C	8
Ficus microcarpa	A	1
	B	0
	C	0
Juniper sp.	A	1
	B	0
	C	0
Melaleuca nesophila	A	7
	B	6
	C	0
Myoporum laetum	A	125
	B	167
	C	8
Phoenix canariensis	A	0
	B	2
	C	6
Pinus canariensis	A	0
	B	2
	C	1
Pinus halepensis	A	1
	B	10
	C	3
	A	0

Table 4 Species Categorized into Size Classes		
Species	Size Class	Number of Individuals
Pinus pseudostrobus	B	2
	C	0
Schinus molle	A	0
	B	11
	C	8
Schinus terebinthifolius	A	0
	B	3
	C	0
Sequoia sempervirens	A	9
	B	0
	C	0
Washingtonia filifera	A	0
	B	0
	C	1
Washingtonia robusta	A	1
	B	7
	C	22

If you have any questions regarding this memo, please feel free to contact me at 949-261-5414, extension 7289.

Sincerely,



Lisa Louie
Project Manager

ATTACHMENTS

Attachment 1 – Tree and Shrub Location Map

REFERENCES

Hickman, James, ed.

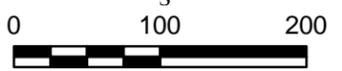
1993 *The Jepson Manual: Higher Plants of California*. University of California Press, Berkeley, California.

Oxford Retention Basin
Multiuse Enhancement Project
Tree Survey

Legend

- *Ceiba speciosa*
- *Eucalyptus camaldulensis*
- *Eucalyptus citridora*
- *Eucalyptus globulus*
- *Ficus benjamina*
- ▲ *Ficus benjamina shrub*
- *Ficus microcarpa*
- *Juniper sp.*
- *Melaleuca nesophila*
- ▲ *Melaleuca nesophila shrub*
- *Myoporum laetum*
- ▲ *Myoporum laetum shrub*
- *Phoenix canariensis*
- *Pinus canariensis*
- *Pinus halepensis*
- *Pinus pseudostrobus*
- *Schinus molle*
- *Schinus terebinthifolius*
- *Sequoia sempervirens*
- *Washingtonia filifera*
- *Washingtonia robusta*

Oxford Basin



Feet

