

## Forrestal Nature Preserve Wetland Restoration Project

### Overview

The Palos Verdes Peninsula Land Conservancy (PVPLC) began work on the Forrestal Preserve wetland restoration project on August 18, 2003. Initial work focused on the upper tract north of the quarry bowl. The highly disturbed riparian area contained a high density of non-native species including palm trees (*Washingtonia species*), castor bean (*Ricinus communis*), tree tobacco (*Nicotiana glauca*), myoporum (*Myoporum laetum*), fig (*Ficus carica*), and ash (*Fraxinus uhdei*). The upper draw was cleared of non-native annuals using weed trimmers and hand removal. Care was taken not to disturb the few native plants growing in the area. As accessibility to the streambed improved, the first two palm trees were removed using a chain saw. The ash, fig, and myoporum were removed from the riparian area shortly thereafter. Woody debris was extracted to a staging area approximately a quarter of a mile away in an open area of the preserve. Community volunteers performed a large portion of the removal from the preserve itself. The group hauled the debris from the staging area to a container that the city of Rancho Palos Verdes provided for the project.

### Budget

The expenditures from August 18 to September 18, 2003 are as follows:

<u>Date</u>	<b>Staff</b>	<u>Unit Performing Work</u>	<u>Amount</u>
August 18-Sept 18, 2003		Restoration Technicians (2) * \$20.00/hr	\$2,900.00

Hours	Wage	Accounting Fees	Workers Compensation	Social Security	Paid Vacation
145	\$13.00	\$1.50	\$1.30	\$3.12	\$1.00

<u>Date</u>	<b>Materials</b>	<u>Description</u>	<u>Amount</u>
August 22, 2003		Chain Saw Bar Oil	\$7.00
August 22, 2003		Saw Scabbard	\$7.00

<u>Date</u>	<b>Equipment</b>	<u>Description</u>	<u>Amount</u>
August 22, 2003		20" Chain Saw	\$359.99
August 22, 2003		20" Chains ( x 2)	\$50.36
August 22, 2003		Sales Tax	\$35.00

**TOTAL: \$3,359.35**

Unexpended Balance to Date: \$6,590.65

#### **Donated Hours/Materials**

<u>Date</u>	<u>Description</u>	<u>Total</u>
August 18-Sept 18, 2003	Steering Committee Meetings	37.5 hours
August 18-Sept 18, 2003	Rancho Palos Verdes City Staff	7 hours
August 18-Sept 18, 2003	PVPLC Project Manager	47.5 hours
September 13, 2003	Community Volunteer Day	35.5 hours
September 12-15	City Donated Materials	\$400.00

#### Timeline

The wetland restoration will be completed by December 2003. The removal of the palm trees and other non-native plants will continue into October, with the majority of time spent on the lower draw. Although the site preparation will be completed in October, the areas will not be revegetated with native plants until November/December 2003 when acceptable planting conditions occur.

#### Remaining Tasks

- Complete removal of woody debris from upper draw
- Extract palms and other non-native species from lower draw
- Re-cut and treat woody stumps with a herbicide approved for use in wetland areas to prevent re-sprouting.
- Revegetate both restoration sites with locally-sourced native plants