

On Thu, Nov 2, 2017 at 9:09 AM, Ken and Margaret wrote:

Daniel: I thought you would be interested in this short report about recreating the Monterey Pine forest grove and planting of native plants at the Lighthouse. Pat Lovejoy is a fabulous resource for us.

Ken

From: Steve Honegger

Subject: Re: Dunes restoration report

Fabulous report Pat! Thanks, Steve

Sent from my iPhone

On Nov 1, 2017, at 10:21 PM, Pat wrote:

Last year at this time, Lighthouse restoration volunteers transplanted 35 Monterey Pine trees that had spontaneously germinated in an inappropriate spot near the entry gate. They were spread out along the East fence line and into the back dune area. A watering system was installed. Of the 35 planted out, several initially failed to transplant, a few more succumbed to pitch pine canker disease over the summer, one was killed by a gopher and two or three died of unknown causes. 25 of them survived and are thriving.

Over the summer, the crew cleared a pathway on the old Lighthouse Avenue road that leads out to the proposed Jeanette McIndoo Memorial Grove. The path was paved in decomposed granite and benches were purchased, assembled and installed along the pathway.

Last week we planted out 20 one gallon cans of Monterey Pines around the South East corner, in the area designated as the Jeanette McIndoo Memorial Grove. This week we transplanted approximately 60, one year old Monterey Pines from grow tubes into the Memorial Grove, which now extends West along the South fence line as far as the big cypress tree, ending slightly behind the start of the light beacon sweep. When fully mature, none of these trees should interfere with the light beacon.

A short extension of the water line with one hose bibb and hose will be necessary to facilitate watering of the Western-most of the recent plantings. There are many extra tree starts to use as fillers for any that do not survive. I expect a higher survival rate than the original transplants as seeds were selected from canker resistant trees, and transplants from containers are more successful than transplants from the ground. Of course, gophers, as always, are unpredictable.

additionally, an experimental planting of the native beach daisy, *Erigeron glauca*, has demonstrated which area within the fenced cypress trees is most preferred by the daisies, and 8 more plants were set out within the last month. We have approximately 30 Sea Side Buckwheats, 30 Dune Asters and 30 Gum Plants to plant along the entry pathway and the Memorial trail. Expect to

see them in the coming weeks.

Respectfully submitted

Patrick Lovejoy

-----Original Message-----

From: Patrick Lovejoy

Sent: Thursday, November 02, 2017 9:25 AM

To: Steve Honegger

Subject: Dunes restoration report addendum

I might also add that over the last year we have eliminated the invasive New Zealand Spinach, although seeds are still sprouting occasionally and will probably continue to do so for a few years. The ice plant has also been eliminated. Neither of these non natives are an insurmountable challenge. However, the non native grasses are overwhelming. No one I know at Asilomar Park or Pt Lobos seems to know how to eliminate them thoroughly from areas with substantial native growth other than by hand pulling, which will require an army of volunteers for years.

Interestingly, the City sprayed herbicide on the North East corner last year just before the non native grasses had set seed. That area had virtually no native plants and was overwhelmed with non native grasses. What re grew was a preponderance of Mares Tail (a native, although unattractive), a few Lupines and some baby Cypress trees, with a smattering of other plants. It remains to be seen what will germinate with the coming winter rains. Al worked doggedly to eliminate the calla lily and amaryllis on the slope and it appears he has been successful.

Another challenge is the Kikuyu grass in the South West corner. Herbicide has slowed it down but not eliminated it to any measurable degree. A more aggressive approach might bring better results.

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