

**BOTANICAL SURVEY OF
THE HALE PŌHAKU MID-ELEVATION FACILITIES
CONSTRUCTION STAGING AREA**

Prepared for

**The Outrigger Telescopes Project
National Aeronautics and Space Administration**

June 07, 2004

By



PACIFIC ANALYTICS, LLC

**P.O. Box 219
Albany, OR 97321
(541) 926-0117
www.statpros.com**

DESCRIPTION OF THE BOTANICAL RESOURCES

Historic Description of the Botanical Resources near the Hale Pōhaku Mid-Elevation Facilities

The following description is taken largely from the previous botanical surveys of the Hale Pōhaku Mid-Elevation Facilities (Gerrish 1979, Char 1985, Char 1990, Char 1999).

The subalpine dry forest in which the Hale Pōhaku Mid-Elevation Facilities are located extends from below the lower boundary of MKSR to the Saddle Road (Char 1999). This open-canopied

forest predominantly comprises *māmane* trees (*Sophora chrysophylla*). *Māmane* trees intercept fog that provides understory plant species with the small amounts of moisture they need to survive (Gerrish 1979). Below 2,377 m (7,800 ft), *naio* (*Myoporum sandwicense*) is co-dominant with *māmane*, with occasional scattered stands of *akoko* (*Euphorbia olowaluana*) and individual ‘*iliahi* (*Santalum paniculatum*) trees in very low abundance (Van Riper 1975; Wagner and others 1990).



Māmane forest covers the western slopes of Mauna Kea below about 2,804 m (9,200 ft).

BOTANICAL SURVEY OF THE HALE PŌHAKU CONSTRUCTION STAGING AREA
 Description of the Botanical Resources

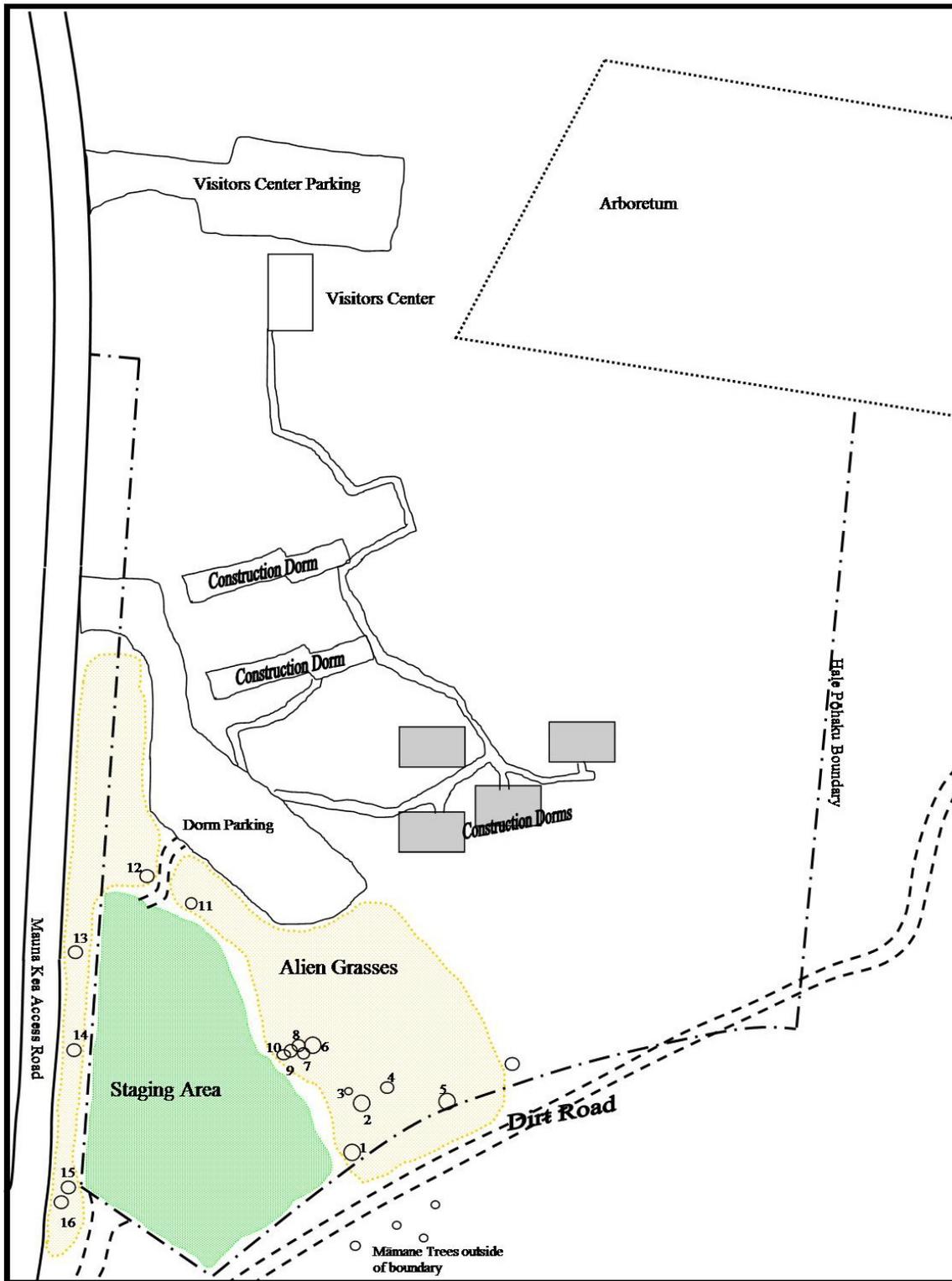


Figure 1. Map of Vegetation Surrounding Hale Pōhaku Construction Staging Area

BOTANICAL SURVEY OF THE HALE PŌHAKU CONSTRUCTION STAGING AREA
Description of the Botanical Resources



The construction staging area (outlined in green) and surrounding vegetation.

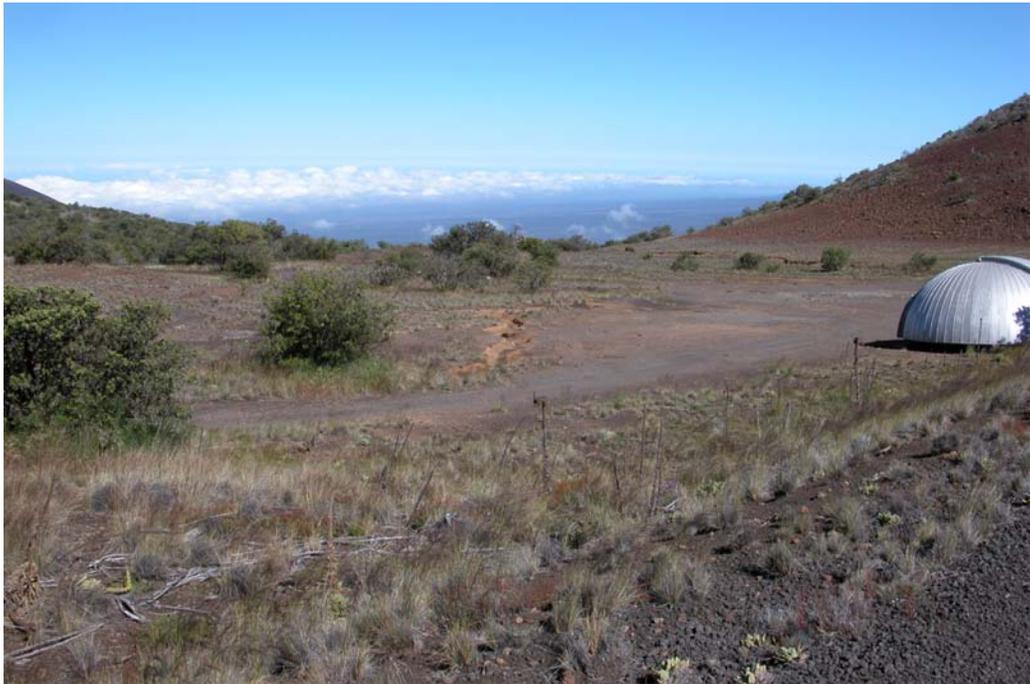


View of the vegetation to the East and North of the site.

BOTANICAL SURVEY OF THE HALE PŌHAKU CONSTRUCTION STAGING AREA
Description of the Botanical Resources



Looking East from the Mauna Kea Access Road across the site.



Looking South from the Mauna Kea Access Road across the site.

