APPENDIX D

SEED COLLECTION FORMS

BLM SEEDS OF SUCCESS FIELD DATA FORM (Revised 16 April 2008)

Use BLOCK CAPITALS
Complete all fields.
Circle relevant descriptions shown in *italics*.

External Collection Number: ZSSD
NRCS PLANTS Code:
Cleaning Facility: ZSSD/BEND

Date(s) Collected (DD/MM/YY): 07/26/11 **SOS Seed Collection Ref. Number:** CA930C-

Collector(s): Patricia Gordon-Reedy/Curtis Battle (Conservation Biology Institute)

Country: USA **Ecoregion (T,O, B):** 81(O) **State:** CA County: SAN DIEGO

Location Details: California, San Diego County, Crestridge Ecological Reserve: east-central portion of reserve, accessed through Gibson cattle gate, primarily adjacent to and north of east-west oriented trail (map attached).

Lat. (dg/min/sec) (ex: 40° 34' 19.5" N): 32°50'47.954"N GPS Used?: √***Yes*** *No* If no, please see other side.

Long. (dg/min/sec) (ex: 107° 36' 51.54" W): 116°50'11.602" W GPS Datum: √***NAD83*** *NAD27* *WGS84* *Other:*

Elevation (feet): 1,920 feet Landowner Details (Permission?): CDFG(Yes)

HABITAT DATA

Habitat, Associated Species & Ecological Site Descriptor: Chaparral (various associations per Vegetation Classification Manual for western San Diego County, including *Adenostoma fasciculaum-Lotus scoparius* Association; *Ceanothus tomentosus* Association; *Ceanothus cyaneus* Special Stands; and *Adenostoma fasciculatum-Xylococcus bicolor-Ceanothus crassifolius* Association). Dominant species in collection area: *Adenostoma fasciculatum, Ceanothus tomentosus, Eriodictyon crassifolium, Ceanothus cyaneus, Helianthemum scoparium, Cercocarpus betuloides, Xylococcus bicolor, Quercus berberidifolia*.

Modifying Factors: *Mowed* √***Burned*** *Grazed* *Flooded* *Seeded* *Trampled* *Other:* *(Burned in 2003 Cedar fire)*

Land Form: Slope, ridge Slope°: 5-25°

Land Use: Little to no recreational use √Aspect: *N* √***NE*** *E* √***SE*** √***S*** *SW* *W* *NW*

Geology: Cieneba/Acid Igneous Land

Soil Texture: *Clay* *Silt* *Sand* *Other:* ***mod. fine clay loam*** Soil Color:

COLLECTION DATA - If plant has been identified by a specialist, please see other side.

Family: Rhamnaceae **No. of Plants Sampled** (min. 50): 25

Genus: *Ceanothus* **No. of Plants Found (approx.):** 250-500

Species: *cyaneus* **Area Sampled (acres):** 7

Subspecies/Variety:

Seeds Collected From: √***Plants*** *Ground* *Both*

Plant Habit: *Tree* √***Shrub*** *Forb* *Succulent* *Grass/Grasslike* Plant Height (feet): 5-12 feet

Native plant materials development and research this accession will be used for: Crestridge Ecological Reserve supports one of the largest known populations of *Ceanothus cyaneus*. This conservation collection samples one of three sub-populations onsite and is intended to (1) preserve genetic material and (2) provide a source of propagules for reintroduction in the event of catastrophic disturbance (e.g., another large-scale fire before seedbank is reestablished).

Notes to assist identification of pressed specimen (e.g. flower color, odor, presence of closely related species): No specimens collected; specimens from this site are currently housed at the San Diego Natural History Museum

BLM SEEDS OF SUCCESS FIELD DATA FORM (Revised 16 April 2008)

Common Name(s) of Plants:	Lakeside ceanothus

Photograph Taken:	√***Digital*** *35mm*	Reference (PLANTS Code_Coll. Number_Pic. No.):		Where Image will be Filed:	

PRE-COLLECTION CHECKLIST

(Check box to right if condition indicated by **boldface** *is met or is the most frequently occurring condition.)*

Assess Population & Seed Dispersal Stage

Approximate area of population: x (feet, yards, miles……)

Approximate total number of individual plants present and accessible: *0-50* **√***50-500* *500-5000* *> 5000*

Evidence of disturbance or damage: *Resown* **√*Burnt*** *Sprayed* *No damage* ***(2003 Cedar Fire)***

Readiness of population for collecting: give percentages or circle the most frequently occurring:
Vegetative *In flower* *50 Immature seeds* ***50 Around natural dispersal*** *Post dispersal*

Estimate the number of individual plants at natural dispersal stage: *<50* ***√ >50***

Is the population:
A single population *√A population with distinct sub-populations* (Can you sample separately or from the most suitable?)

Assess Seed Quality & Availability

On a typical individual, where on the plant/branch/fruit is the seed at natural dispersal stage: **Lower branches, outer branches**

Using a cut test on the seeds at this stage, give percentages or circle the most frequently occurring:
√Healthy *Insect-damaged* *Empty* *Moldy* *Malformed/other damage*

Estimate the number of healthy seeds per fruit: 3

Estimate the number of fruits per individual plant: >1,000

Should Seed Be Collected On This Trip?

Using the above information, if you only collect 20% of the healthy seeds available today, will this result in a collection of **>10,000** healthy seeds?

OTHER DATA

If GPS was not used, please state method of obtaining lat. and long.: *Altimeter* *Map*

Map Publisher:

Series: Scale:

Map Coordinates: Map Date (DD/MM/YY):

Herbarium voucher specimens:

Number of Pressed Specimens: *2* *3* ***4*** *or more* **Date Voucher Was Taken (DD/MM/YY):**

Circle one:

a. *All Herbarium duplicates will be sent to Kew to arrange labeling, verification and distribution (default)*
b. *One duplicate will be sent to __ ____ herbarium for verification, other duplicates will be sent by the collector to Kew to arrange labeling and distribution.*
c. *All Herbarium duplicates will be sent to _____ herbarium that has agreed to arrange labeling, verification and distribution.*
d. ***A herbarium voucher has been sent to the National Herbarium at the Smithsonian, and the remaining will be distributed by the* CA930C *collecting team to regional herbaria:* San Diego Natural History Museum.**

By default, besides any herbaria mentioned above, one specimen will be sent to Kew and one to the Smithsonian. If you would like to request that additional specimens be sent to regional and/or local herbaria, please fill in the following information:

Regional Herbarium: Local Herbarium:

If collection has been identified by a specialist, please complete sections below:

Material Identified: ***In Field*** *From Pressed Specimen on Day of Collection* *From Pressed Specimen on Another Date* *From Photograph*

Date identified (DD/MM/YY): 07/26/11

Identified by: Patricia Gordon-Reedy Organization: Conservation Biology Institute