

Date: July 28, 1999
To: Philippe Cohen
From: Carol Zabel *CZ*
Subject: Plant regrowth in the controlled burn, SLAC Corridor

This morning Chris Andrews and I walked to the area of the controlled burn to see what plants were developing new growth.

Phalaris aquatica--Harding Grass. Poaceae. Many places, blades 10-15 cm. high.

Picris echioides--Bristly Ox-Tongue. Asteraceae. Pop. at least 10-15, showing good recovery, one with nice flowers.

Lactuca saligna--Willow Lettuce. Asteraceae. Pop. 8-10, green basal leaves. Many of these grow in the road below the burn.

Sonchus asper ssp. *asper*--Prickly Sow Thistle. Asteraceae. Pop. 4, about 30 cm. high, one in bud. In one small area.

Convolvulus arvensis--Bindweed. Convolvulaceae. Pop. 2, leaves only, close together.

Lotus corniculatus--Birdfoot Trefoil. Fabaceae. Pop. 2, one in flower. Close together. Not sure this was regrowth. The area was one in which there were small patches of burnt and unburnt grasses.

Rumex pulcher--Fiddle Dock. Polygonaceae. Pop. 2-3 in one area, 1 in another. These are this year's stalks and fruits, without any new leaves showing. Inner calyx lobes toothed (teeth slightly scorched), 3 tubercles.

Rumex crispus--Curly Dock OR *Rumex salicifolius* var. *transitorius*--Willow Dock. Polygonaceae. Pop. 1. This year's stalk and fruits, but new basal leaves 10-12 cm long. Inner calyx lobes with smooth margins, 3 tubercles. I am not familiar enough with *Rumex* species to know which this was, but both species grow along the SLAC corridor. Toni Corelli and Ruth Porter keyed these out last fall near the Dennis Martin site.

We noticed the scorched *Baccharis pilularis*--Coyote Brush, Asteraceae, at the north side of the burn.

PLANT SURVEY OF "HERMIT'S CABIN SITE" AND AREA BORDERED BY ROAD
F AND TRAIL TO GOYA GATE

By Carol Zabel 2/02/02

On March 23, 2000 Irene Brown took me along with her on her walk to look for *Euphydryas chalcedona* butterfly larvae, mostly on Sticky Monkeyflower, *Mimulus aurantiacus*. See copy of map Irene sent me showing the route we took.

I decided that in 2001 that area should be surveyed for plants unusual for JRBP or that are found in very few locations. On Jan. 31, 2001 Ann Lambrecht and I went to explore. We went in the route that seemed easier and less likely for me to get lost. Ann and I went in at Goya Gate, up Goya trail (tr. 17) to Fire Road F, NW on F to a point a little before the Owl Tree, 33.4E in JRBP Sector Map Book. Owl Tree is on border of 33.3E and 33.4E. We passed to the S of the Owl Tree, where there is also one of the Hermit's pits under the canopy. We headed toward the grassy area shown near the right side of 33.5D. There is a drainage which leads from SW of the Owl Tree toward point labeled MYRTIS COMMUNIS (*Myrtus*), which does not show up on Irene's map but is on the Sector 33 map on 33.4E, 33.4D, and 33.5D and which will be referred to later.

We went into the area Irene labeled as Hermits Cabin Site and Existing Cabin. The Existing Cabin is a falling-down small "cabin" probably built by Boy Scouts. We went across the hill labeled Hillside With *Linanthus Bicolor*, into the grassy area before Hillside With Patch of *Plantago Erecta*, which Irene called "Hidden Valley", out in low areas passing by the Big Laurel Tree, 43.2B, then between the Hollow Tree and Swale, 43.2B, toward the fence and out Goya Gate. We did not go or have ever gone into the other labeled areas which lead into the trees. We did almost no botanizing except to look at the olive trees.

On Feb. 25/01 Irene invited me along and we went in Goya and along Road F, then in past the Owl Tree. The drainage had dried teasels and pennyroyal, and she said *Bellardia* also grew here. By the flat trail at Hermit's Cabin Site were two flowering *Prunus*, Fls in umbel, were not Chokecherry. Irene found some olive fruits under the trees. A small fig tree here, and a probable raccoon's skull.

Walked 50 ft. SE past *Myrtus Communis* group to enter path to right, then path down to terrace (stepping stone here). One Hawthorn (*Crataegus monogyna*, from which IB had earlier sent me a leaf to identify), a large decayed stump from an oak with numerous dead English Ivy, *Hedera helix*, vines and a few still with green leaves. She also said there was a water tank somewhere here, supposedly left from days when cattle were run here.

At Remains of Gate and Padlock entrance I looked at Oak trees which had hairs in axils of undersides of leaves, but leaves were

rounded and quite flat. Just looked different from Coast Live Oaks I am used to.

On the short trail shown along the top of the label Remains of Gate and Padlock on map, is a flattened area IB said was an old camp site. We went out headed toward the downed dead oak, easier than going across the grassland. I asked about the Hermit's mine; she pointed to the valley to the west of the big Bay tree which is 43.2B and then follow a trail in (43.2A). Cindy W. says the mine has fallen in about 60 ft. and has a fence around it for safety.

3/14/01 with Ann. Noticed leaves of Mule Ears and Narrow-leaved Mule Ears and also what are probably leaves of California Helianthella. Linanthus bicolor plants up but small, not in Fl. If I made a more complete plant list, I cannot find it.

In this report I am omitting all grasses with one exception, and plants common in JRBP such as Erodium sp. or plants that are common in many locations and in which for the purpose of this plant survey I have no particular interest.

4-18-01 with Ann. Hundreds of Blow-Wives in Fl. inside Goya Gate and 1st part of Goya trail. Into Hermit's cabin area by Owl Tree. Mule Ears, Narrow-leaved Mule Ears and California Heliathella all in Fl. on the slope to the right before the entrance to the Hermit's Cabin Site area. Through the Olive trees, down to the flat path. The Fig tree has small green figs on it. Forgot to look at the Prunus. Nearby a "dump" with glass bottles, rusted food cans and a rusted Log Cabin Syrup (cabin-shaped can).

Back out on the path that leads toward the Hermit's terraced area, passed many Myrtus communis shrubs, the leaves looking very yellow. At entrance to path to terraced area is patch of Plectritis sp. (no red dots, don't know the species). At the terraced area a second Hawthorn was seen, but too much Poison Oak to walk down.

Notes
3/20

The Linanthus bicolor hill has hundreds of the Linanthus in Fl. Also same area hundreds of Venus' Needle in Fl. The "camp site" trail had a purple-leaf plum tree, the kind with the greenish purple leaves, not in Fl. Went across grassland on lower deer trails to left of Big Laurel Tree, past the Hollow Tree and out. Four young people digging holes somewhere in direction of road F.

May 17/01 with Ann. A lot of Tritaleia hyacintha in Fl. SW of road F in the Baccharus area. In near the Owl Tree. We each took one side of the drainage. A lot of what was most likely the little Mimulus guttatus (smaller than usual, see Thomas' Flora, pp. 312-313). There were 2-3 Bellardia in Fl. and 2-3 Sticky Cinquefoil. Stachys pycnantha toward SW end of drainage, plants 7-8" high. In here two Verbena plants growing straight up. Our common Verbena lasiostachys var. lasiostachys seems to have a decumbent (?) growth form.

Along path in front of Myrtus patch we looked at the dark wine red colored Clarkias, all one color, petals 10 mm long, should be *Clarkia purpurea quadrivulnera*, Four-Spot. There were also other Clarkias, petals also 10 mm long, but petals light pink with darker area toward end of petals. Jepson Manual says "highly variable" and "often with a purple spot near middle or above". I still can't figure out about the stigma beyond anthers or not. (Note: we found Clarkias on trail 12 before first bridge whose petals measured 20 mm long, and which were light pink with darker area at end of petals but not believed to be *Clarkia rubicunda*.)

Only one half-ripe fig on fig tree. Olive trees in bud.

Back out to road F, then in a trail back of trees (sector 34.5D) to get down to Monarch Butterfly "Swale". Milkweed in bud, Yampah leaves, no sign of Pennyroyal. Came out at Hollow Tree, turned right. Here a small patch of green Big Squirreltail grass, *Elymus multisetus*, then a patch of Tocalote, short purple spines, not in fl. To fence line, past a Brown Dogwood and out along fence..

June 2, 2001 with Cindy Wilber and Scott Loarie. In Goya gate, toward Hermit's Cabin Site off road F past Owl Tree. Down the drainage, no sign of the *Mimulus guttatus*. A little Centaury in fl. Took sample of an *Epilobium*, lvs opposite until top, then alternate, plant 6-8" high, corolla length 4.5-5mm, corolla very deep pink, similar to Centaury color. Base of stem did appear to peel, but nothing like *Epilobium brachycarpum* does; that shreds. None in fruit, so do not know if seeds have tufts (if would have had none, would be former *Boisduvalia*).

Stachys pycnantha in bud, but plants very short. The upright verbena here in fl. Collected seeds from a last year's dried plant. One side of seed has white papillae, so is Robust Vervain, *Verbena lasiostachys* var. *scabrida*. Leaves of this year's plants do seem rougher than those of California Vervain which are common in the chaparral.

A grape vine in leaf near olive trees at Hermit's Cabin Site. (6/1/02 Irene and I were here. She said there are three grape vines, the one low down, which I had seen before, one climbing a tree nearby, to the east. The other she could not remember).

At the beginning of the short trail that leads in to the path that goes to the stepping stone were at least 20 flowers of California Milkwort, *Polygala californica*. Scott went home and checked his books and so did I. He called to confirm.

Back out to road F, in behind the trees (34.5D) to the Monarch butterfly Swale. No butterflies, but Milkweed in bud/flower, and some Yampah, also Pennyroyal. The Big Squirreltail grass still mostly green but some expanded.

July 10/01 with Ann. On our way in found two Lemonade Berry, *Rhus integrifolia* shrubs near Goya Gate. Whole area is dry, lots of dry grasses and blooming Yellow Star Thistle. Hard to walk off trail. In the drainage leading to the Hermit Cabin Site there was much Pennyroyal in Fl. also Teasel, and saw two small bushes of what looked like *Pyracantha*. Also a lot of Centaury in Fl. One only Yampah, in Fl., and one *Epilobum brachycarpum* here, base shredding. At the inner end of the drainage found the Robust Vervain. Collected leaf and fruits from this year's plant. Leaf rough, inner part of seeds is white papillate.

Only one *Stachys pycnantha* left. About six plants of an unknown plant in same area, with buds forming in axils of leaves. On the hillside slope to the right (as we face it) of Hermit's Cabin Site are 25+ Hairy Bird's-beak, *Cordylanthus pilosus* ssp. *pilosus*, in bud. On the steeper open hillside above are 50+ Stiffly-branched Bird's-beak, *Cordylanthus rigidus* ssp. *rigidus* in bud, and many dried *Calistoga Navarretia*, *Navarretia heterodoxa*. Irene had told me they were here. It's not Skunkweed; I checked the outer bracts.

The Myrtus is in Fl., smelled slightly like carnations I thought.

Back to road F and then into other drainage. Lots of Milkweed in Fl. and pods formed. No Yampah that we could see.

This was our last walk this year into Goya territory. It is too hard to walk through the grass and Star Thistle.

Cindy Wilber and I don't know who else went in during August. She said they say a rattler.

The area labeled "swale" on the map is where Gerry Jennings did her photography on the Monarch butterfly.

Prof. John Thomas collected on 01 June 67, Specimen # 12980 Myrtus, # 12981 *Elaeagnus angustifolia* (Russian Olive), and #12982 *Ficus carica* (Edible Fig). These were in the vicinity of the Hermit cabin site. I have looked each time we go there, on all the cleared trails, but so far have not found the Russian Olive, if it is still alive.

JOYA GATE

SMALL TREE

HOLLOW TREE

BIG LAUREL TREE

HERMITS MINE SITE

REMAINS OF GATE AND PADLOCK

SITE OF EUPHYDRYAS CHALCEDONA FEEDING ON SCROPHULARIA CALIFORNIA

ERECTA

HILLSIDE WITH PATCH OF PLANTAGO

HILLSIDE WITH LINANTHUS BICOLOR

MYRTIS COMMUNIS

HERMITS CABIN SITE

EXISTING CABIN

HELANDS PIT

WALK MARK MARCH 23 2008
FRUIT SPREAD
CH. ROT. ZHDEL

1 INCH = 200 FT.
APRIL 1988
P. H. G. O.



Herbarium

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Page 6, DP, Page 1 JT
ferns, gymnosperms,
some aquatics

To: Ruth Porter
From: Carol Zabel
Date: July 3, 2003
Subject: Plants found and identified in JRBP by Carol Zabel/Ann Lambrecht since my last list of 9/6/02

Juncus bufonius var. occidentalis, road F and below the field station. Hundreds. Specimen collected and passed to Toni for pressing. *Carol*

Sanicula bipinnata, poison sanicle, tr. 11. We collected and pressed a specimen. *C & A*

Pectocarya pusilla, little pectocarya, tr. c. We collected and pressed a specimen.

Juncus occidentalis, western rush, many places *C*

Linaria canadensis, Blue toadflax, under power towers, road D and rattlesnake rocks. Scott Loarie found in 2002, but species not identified. Ann and I found plants and identified. *C*

Helianthemum scoparium, peak rush-rose, old dead end road off road F near intersection with roads D and E. Irene Brown sent me photo and location, I identified. *C*

Galium murale, tiny bedstraw, I found on tr. 1. Toni said she had seen it at JR. I don't know if she recorded it on a "found" list. *C*

Crataegus laevigata, English hawthorn, Hermit's cabin site, Irene Brown photographed and gave me samples of leaves, small fruits and dried petals. Petals white and double. TWO styles. Not C. monogyna which is so common in JRBP. Mentioned in McMinn and Maino, 2nd edition, 1959. Original name C. oxycantha. Many varieties in cultivation. I passed the leaves, berries, etc. to Toni, don't know if she pressed. *C*

Piperia transversa, transvere rein orchid in Matthews, Irene Brown found two new locations to the the two we already had. I had thought in the past that these were P. elegans, but Ann and I studied them, and found P. transversa. Irene supplied photograph. *C & A*

I think you should remove Juncus bufonius var. bufonius, (2002), from the found list for the time being. The main difference between it and J. bufonius var occidentalis (2003), is the size of the perianth. I was unable to find any more of the J. b.b. in the same area this year.

Ruth

PLANTS GROWING ON SERPENTINE AREAS WHICH NEED TO BE PROTECTED

From: Carol Zabel, ^{CZ} 8/13/03

Ruth Porter, Ann Lambrecht and I have marked on Rebecca Young's map the plants on serpentine we believe need protection.

1. Woolly-headed lessingia, *Lessingia hololeuca*, a CNPS list 3. Grows in road F through serpentine area H, opposite Escobar neighbor's house, continuing on the road part way toward the blue oaks. Also grows on trail 15 beginning on the path leading up to the Vestal enclosure, and ending before entering treed area. Many plants. Ann Lambrecht and I GPS'ed in 2002. We saw the plants on road F on 6/25/03 and stems of many were 10 cm long. Attention should be paid to when the road is mowed.

2. While technically not on serpentine, but in part of this same area of road F, is Jepson's eryngo, *Eryngium aristulatum* var. *aristulatum*. The plants start just past the neighbor's property, growing a short way to the south of the road, in the road, and a short way to the north of the road, which I once heard referred to as a "serpentine wash". As far as I know, this is the only area in JRBP where these plants grow. Again, because the road and the area to the south are mowed, many of the plants are lost. On 6/25/03, Ann Lambrecht and I counted 37 on the north (unmowed) side and only seven on the road and south (mowed) side. Plants were in bud and normally flower in July.

3. The serpentine slope before the blue oaks begin is an area where wicker buckwheat, *Eriogonum luteolum* var. *luteolum*, grows.

4. There is a small serpentine area on trail b where this buckwheat also grows. It is on the east (NE) side of the trail a few meters before the first rocky gulch. Small numbers of Douglas sandwort, *Minuartia douglasii*, grow here also.

5. Down slope from the serpentine loop on upper trail 5 grow cream cups, *Platystemon californicus*. Binoculars are required to see them from the trail.

6. Irene Brown's butterfly trail between the far end of trail b and road F. Part of the trail is serpentine and part is non-serpentine. Along this trail grows California Indian pink, *Silene califolia*, and a patch of allium, species unknown, which are light pink in color. Also is the only known patch in JRBP of Kellogg's *Tauschia*, *Tauschia kelloggii*. I saw these plants with Irene in 1999.

7. Toni Corelli has listed the white baby blue-eyes, *Nemophila menziesii* var. *atomaria*, formerly thought to be baby blue-eyes, *Nemophila menziesii* var. *menziesii*, on road D, up from road C where the serpentine starts

8. We have added common montia, *Claytonia exigua* ssp. *exigua*, which grows on serpentine up the road from the white baby blue eyes. The plants grow in the ditch and on the adjoining slope.

9. California mustard, *Guillenia lasiophylla*, on road F. A few were seen in flower 4/15/03 by Ann Lambrecht and Carol Zabel. South side, Area C, between west end of trail 15 and trail leading over to trails c, 9 and 10.

10. The alliums, sp. unknown, on the north side of area C.

11. Brewer's onion, *Allium falcifolium*, found and photographed by Irene Brown between road F and trail c.

12. Purple mouse-ears, *Mimulus douglasii*, in the past grew in Vestal's exclosure off trail 15. Also was seen in 2002 by Scott Lourie in a transect south of trail 15.

Toni Corelli has made her own entries to the map.