1927 Fifth Avenue San Diego, CA 92101-2357 P 619.308.9333 F 619.308.9334 www.recon-us.com

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# RECON

A Company of Specialists

November 3, 2010

Ms. Karen D. Wilson San Diego Gas & Electric 8315 Century Park Court, CP21G San Diego, CA 92123-1548

Reference: Rare Plant and Invasive Weed Report for the Rough Acres Construction Yard of the San Diego Gas & Electric Sunrise Powerlink Project (RECON Number 5091-1)

Dear Ms. Wilson:

This letter describes the results of RECON's rare plant survey conducted on the Rough Acres Construction Yard in Boulevard, California, for the proposed Environmentally Superior Southern Route (ESSR) of the San Diego Gas & Electric (SDG&E) Sunrise Powerlink Project (Project).

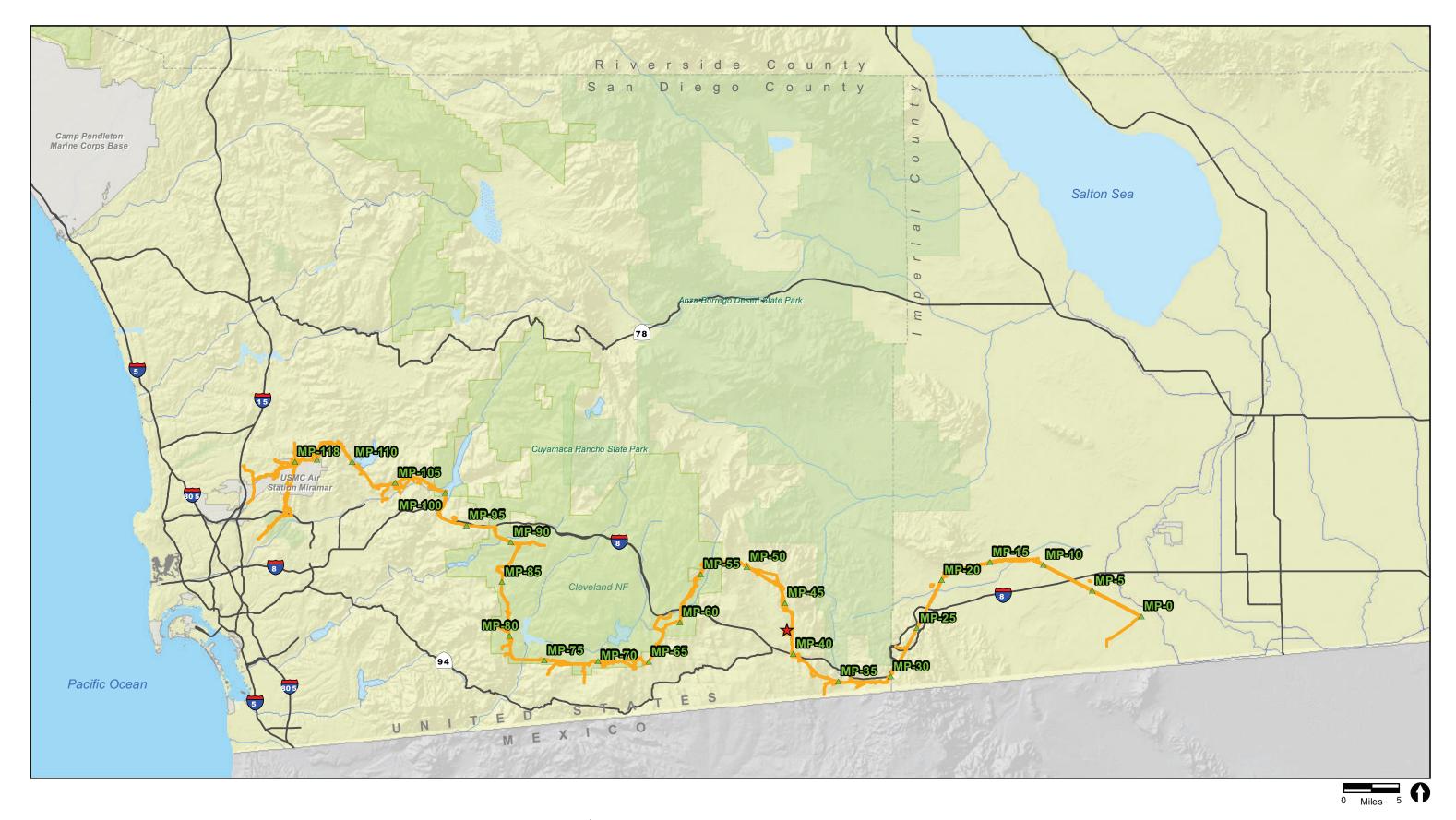
SDG&E proposes to construct a new electric transmission line between the existing Imperial Valley and Sycamore Canyon Substations, a proposed new substation (Suncrest Substation), and other system modifications and upgrades in order to reliably operate the new line. The entire Project would traverse approximately 120 miles between the El Centro area of Imperial County and southwestern San Diego County in southern California (Figure 1).

The focus of this report is the Rough Acres Construction Yard, which will be used for material storage and staging to support the Project area (Figure 2). The Rough Acres Construction Yard is found in Boulevard, California, north of Interstate 8, off McCain Valley Road. The Project alignment is adjacent to the Rough Acres Construction Yard east of McCain Valley Road.

### **METHODS**

On May 19 and 20, 2010, Gonzales Consulting biologist Teresa Gonzales visited the Rough Acres Construction Yard in Boulevard, California, and conducted rare plant surveys and invasive weed surveys in accordance with the Project Environmental Impact Report. On October 31, 2010, RECON biologist Michael Nieto conducted a verification survey at the site (Table 1). Information on potential sensitive plant species' habitat preferences, soil types, and phenology was compiled and used to guide survey efforts. Soil types within the study area were identified based on the reports and maps in the Soil Surveys for the San Diego and Imperial County areas (U.S. Department of Agriculture 1973, 1981).

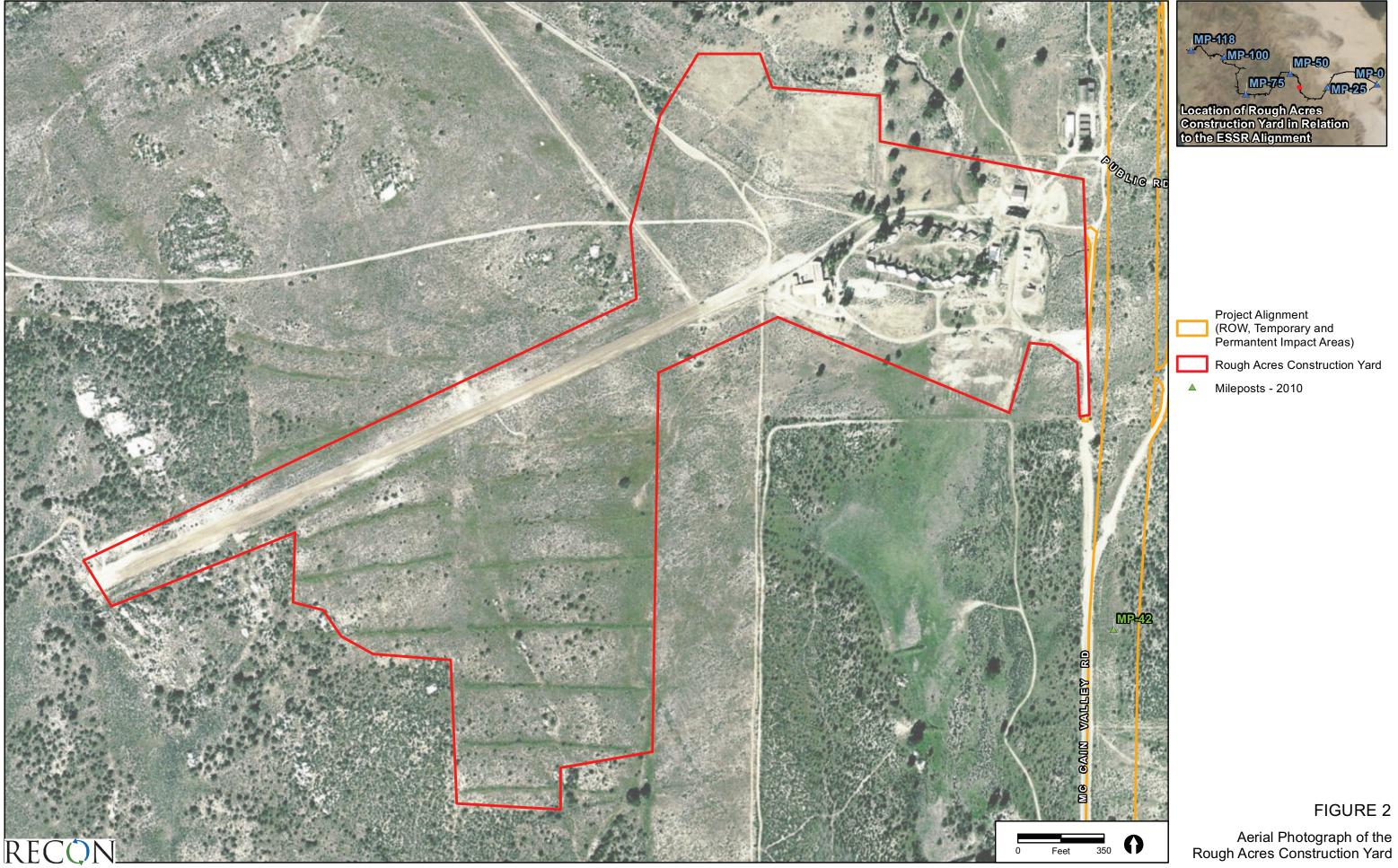
A survey buffer of 30 feet outside of project boundaries was surveyed in order to record rare plant and invasive weed populations adjacent to the proposed yard.



- ★ Rough Acres Construction Yard
  - Project Alignment (ROW, Temporary and Permanent Impact Areas)
- Mileposts

RECON

FIGURE 1 Regional Location



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Date	Biologists
5/19/2010	Teresa and Paul Gonzales (GCS)
5/20/2010	Teresa and Paul Gonzales (GCS)
10/31/2010	Michael Nieto (RECON)

TABLE 1 PERSONNEL AND DATES OF SENSITIVE SPECIES SURVEYS

The survey area was traversed on foot, with biologists walking meandering transects within the construction yard, spending the majority of time in areas with intact native soil and vegetation and areas with high densities of invasive weeds. Potential and observed sensitive plant populations are described in Attachment A.

Surveyors recorded the location of all target sensitive plant species when encountered using Trimble GeoXT or handheld units. Any additional information pertaining to global positioning system (GPS) points were recorded into each surveyor's field notebook. Survey data was downloaded from the GPS units into a geographic information system (GIS) database. Following the last survey, the GIS database was updated and refined with the information contained in each surveyor's field notes.

Prior to the survey effort, a thorough literature review was performed. Identification of species was confirmed through species lists and recognized taxonomic keys (Hickman 1993; Baldwin et al. 2002; Rebman 2006, 2008a, 2008b, 2010, 2010b). Determination of the potential occurrence for listed, sensitive, or noteworthy species is based upon known ranges and habitat preferences for the species (State of California 2010, 2010b; California Native Plant Society [CNPS] 2001, 2010; Reiser 2001), species occurrence records from the California Natural Diversity Database (CNDDB) (State of California 2010) and the All Species Occurrences Database (U.S. Fish and Wildlife Service 2009), and species occurrence records from other sites in the vicinity of the survey area. Vegetation communities, when characterized, are consistent with those described in the final Environmental Impact Report/Environmental Impact Statement (California Public Utilities Commission and U.S. Department of the Interior, Bureau of Land Management 2008), which parallels Holland (1986) as modified by Oberbauer (1996).

For purposes of this report, species are considered to be sensitive if they are: (1) listed by state or federal agencies as threatened or endangered or are proposed for listing; (2) on List 1B (considered endangered throughout its range) or List 2 (considered endangered in California but more common elsewhere) of the CNPS *Inventory of Rare and Endangered Vascular Plants of California* (CNPS 2001, 2010); or (3) considered rare, endangered, or threatened by the CNDDB (State of California 2009a) or local conservation organizations or specialists. Impacts to CNPS List 1B and 2 species, due to their relatively high regional sensitivity, will require in-kind mitigation.

Invasive weeds for this survey were defined by the Environmental Impact Report/Environmental Impact Statement as follows: (1) species within the project area that promote the spread of wildfires such as cheatgrass (*Bromus tectorum*), Saharan mustard (*Brassica tournefortii*), and medusa head (*Taeniatherum caput-medusae*) (CPUC/BLM 2008 and USFWS 2009); (2) species within the project that the County of San Diego has identified as "targeted noxious weeds" (County of San Diego 2010); and (3) species categorized by the California Invasive Plant Council (Cal-IPC) Invasive Plant Inventory as High or Moderate for negative ecological impact (Cal-IPC 2006). Preconstruction surveys were conducted in accordance with the *Weed Control Plan for the Environmentally Superior Southern Route of the SDG&E Sunrise Powerlink Project*, hereafter "Weed Control Plan" (RECON 2010). Each exotic species population located within the project area was categorized into one of four density classes. Density categorization was based on qualitatively derived cover estimates of the population. The density categories assigned are presented in Table 2.

## TABLE 2EXOTIC SPECIES DENSITY CATEGORIES

Category	Description	Density
Т	Trace	Individual(s), less than 1 %
Class 1	Low	1 to 25 % Cover
Class 2	Medium	26 to 50 % Cover
Class 3	Dense	51 to 100 % Cover

### SENSITIVE PLANT RESOURCES AND PROJECT IMPACTS

A list of rare plant species identified during the survey is presented in Table 3. Jacumba milk-vetch (*Astragalus douglasii* var. *perstrictus*) is generally found in areas of mild disturbance and was distributed throughout the proposed construction site. Sticky geraea (*Geraea viscida*) was also observed in sandy, mildly disturbed areas within the proposed yard, but at much smaller densities (Figure 3). Construction activities at the site will attempt to avoid mapped rare plant populations. As the intensity of potential impacts within the yard will be significant and rare plants are distributed throughout the yard, avoidance will not always be possible. In cases where the two species of identified rare plants cannot be avoided, a plant salvage and reseeding program has been developed.

TABLE 3 RARE PLANT SPECIES OBSERVED

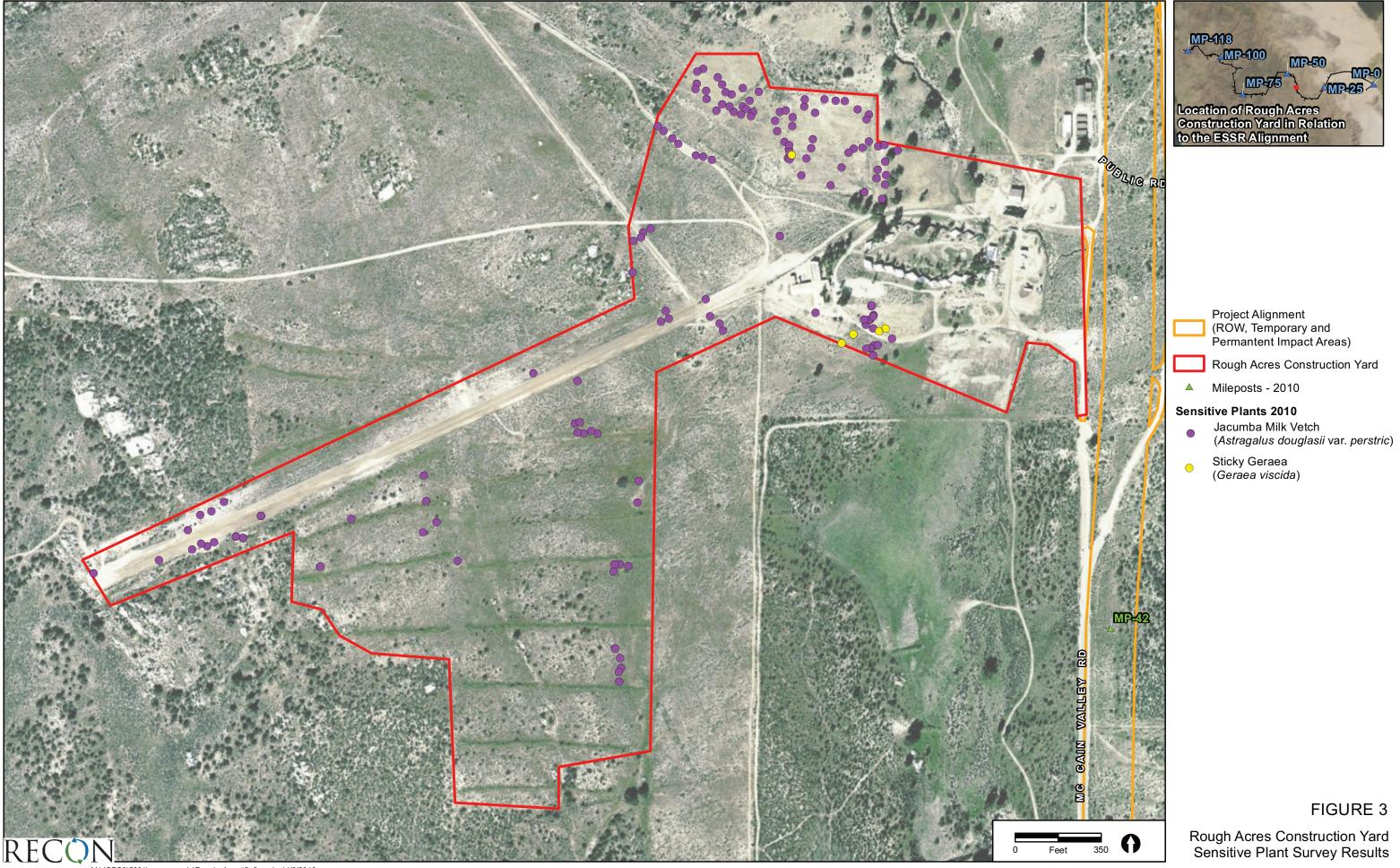
			Number
Scientific Name	Common Name	CNPS Rating	Observed
Astragalus douglasii var. perstrictus	Jacumba milk-vetch	1B.2	806
Geraea viscida	sticky geraea	2.3	20

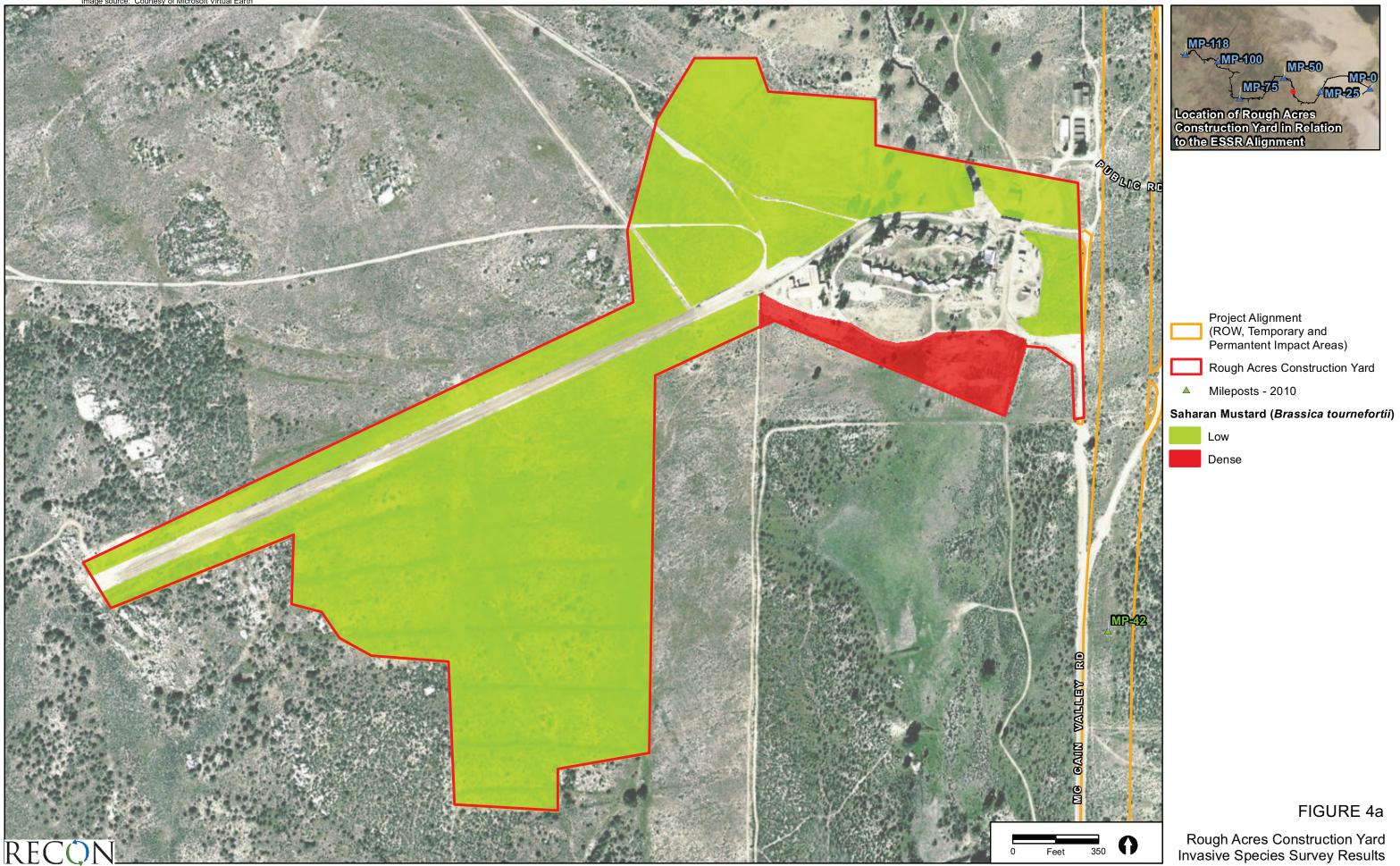
### **INVASIVE PLANTS**

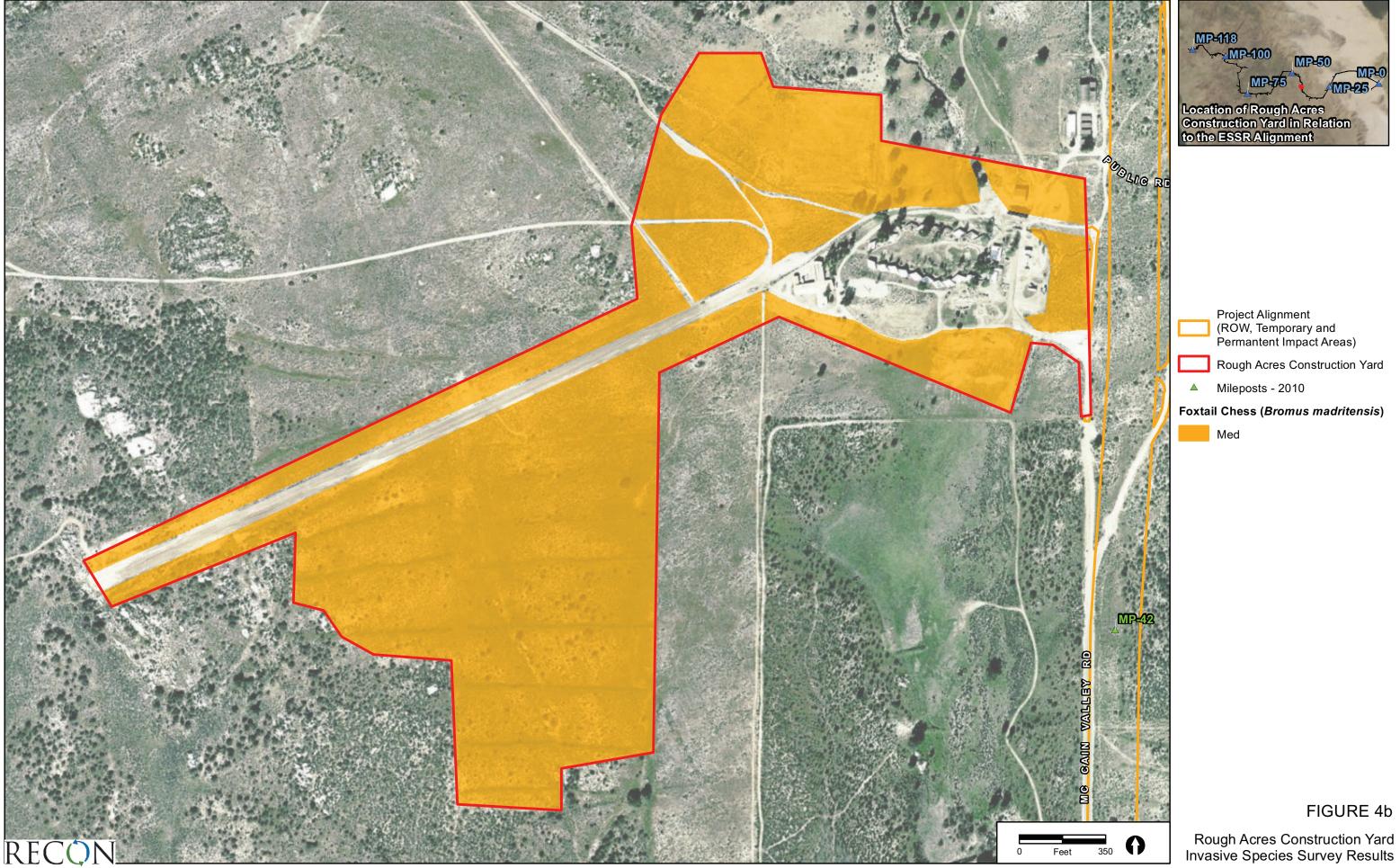
A list of invasive weed species identified during the survey is presented in Table 4. Invasive weeds were observed throughout the proposed construction yard (Figure 4a-4e). Two species identified in the EIR/EIS as wildfire promoting species, Saharan mustard (*Brassica tournefortii*) and cheatgrass (*Bromus tectorum*) were identified within the proposed construction yard. A small grove (three individuals) of saltcedar (*Tamarix ramosissima*), a tree-like invasive weed, was also observed at a single location in the yard. In accordance with the Weed Control Plan, invasive weeds detected this season will be treated prior to project construction (RECON 2010).

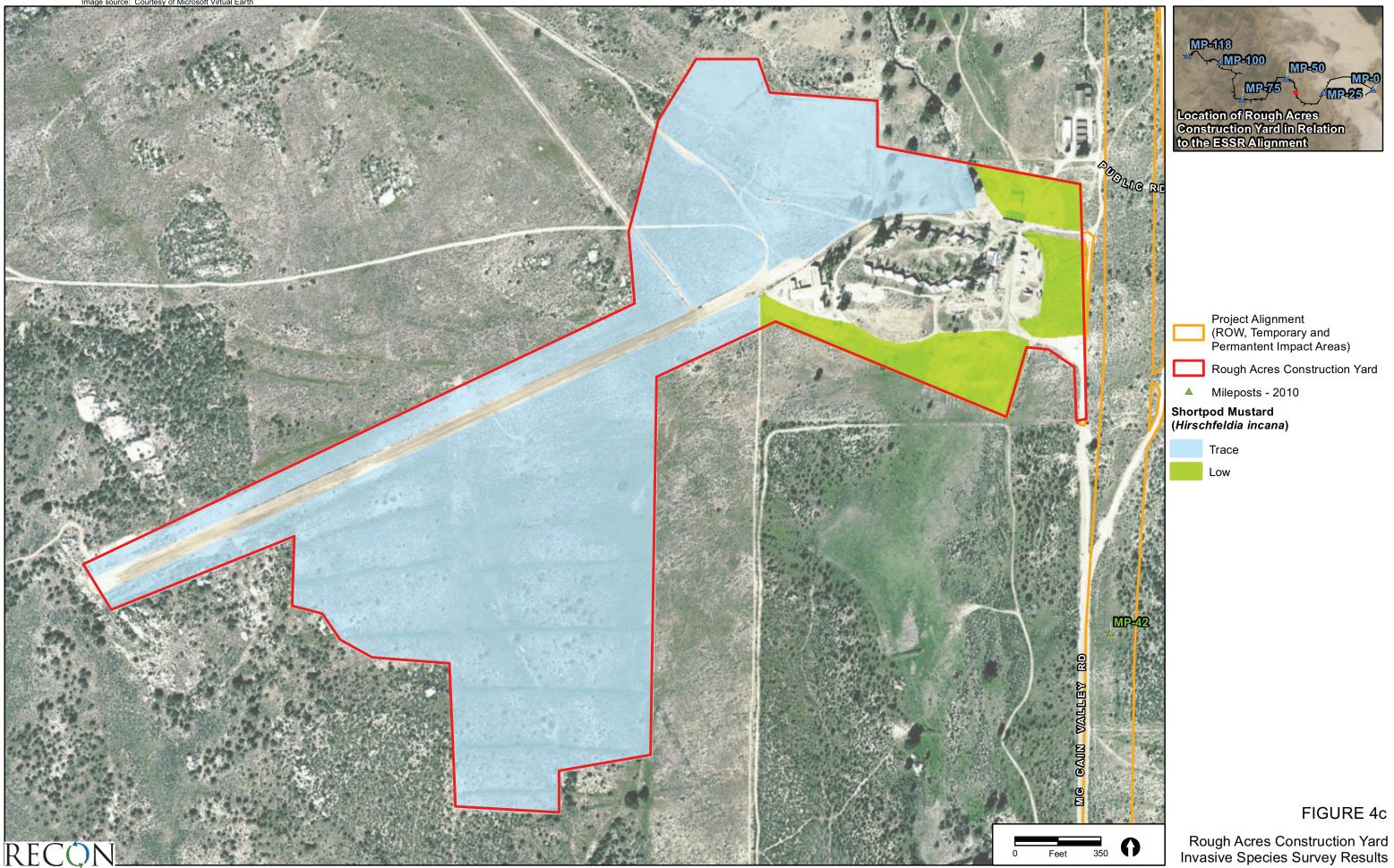
### TABLE 4 INVASIVE WEED SPECIES OBSERVED

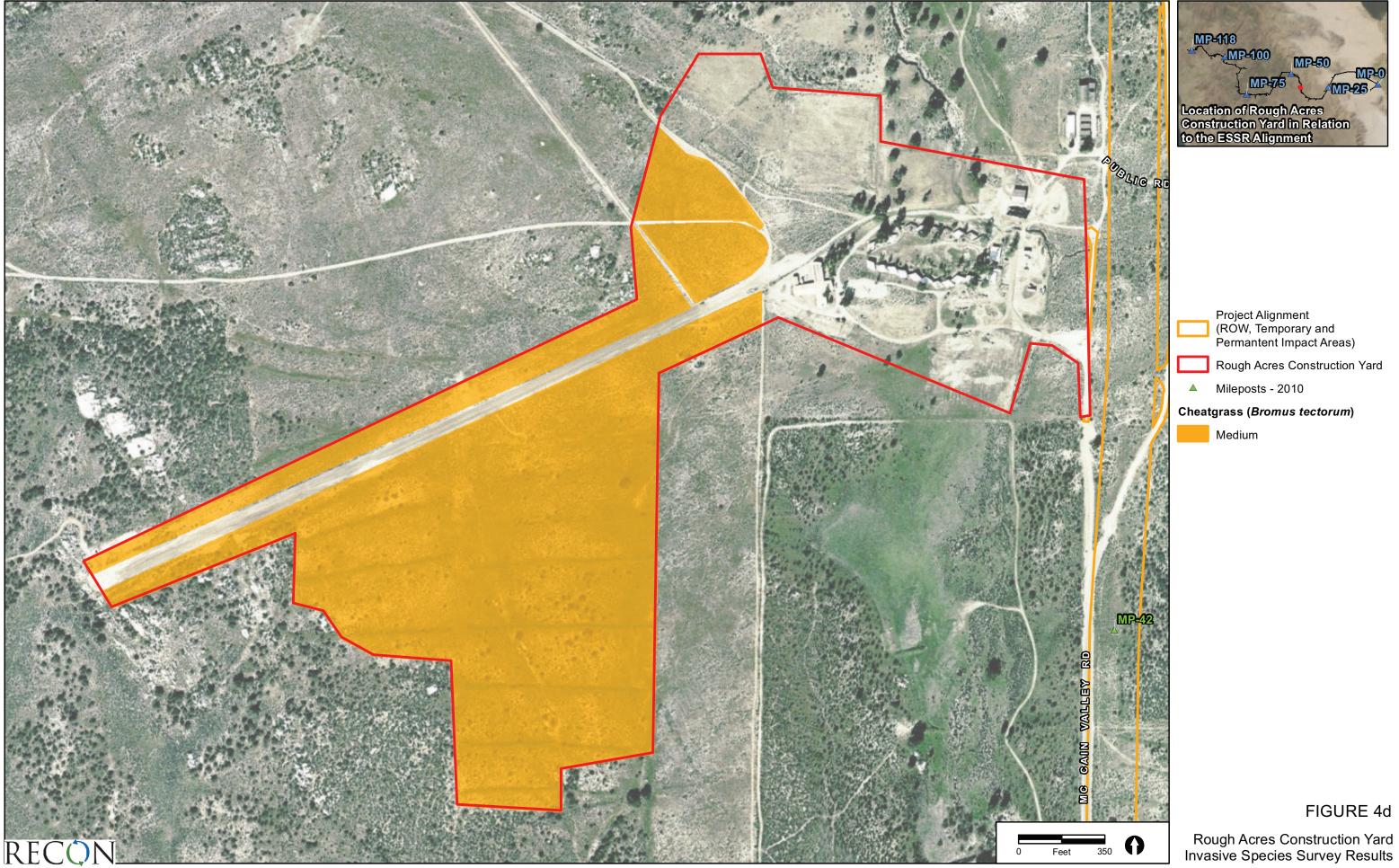
			Wildfire	San Diego	
		Cal-IPC	Promoter	County Noxious	
Scientific Name	Common Name	Rating		Weed	Density
Brassica tournefortii	Saharan mustard	High	Yes	No	Low
Bromus madritensis ssp. rubens	foxtail chess	High	No	No	Medium
Bromus tectorum	cheatgrass	High	Yes	No	Medium
Hirschfeldia incana	shortpod mustard	Moderate	No	No	Low
Tamarix ramosissima	saltceder	High	No	No	3 individ

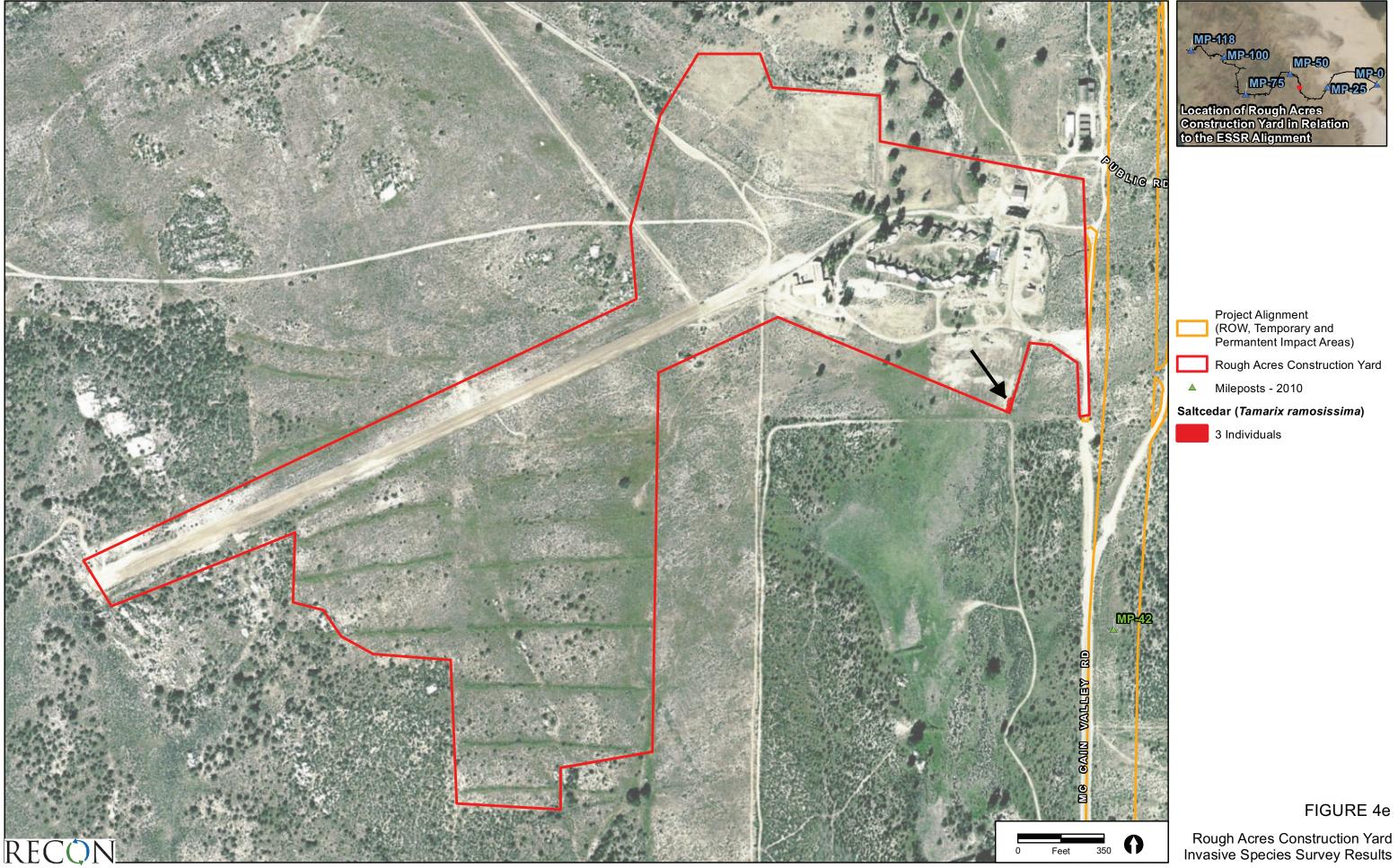












If you have any questions, please do not hesitate to contact me.

Sincerely,

Michael Nieto Biologist

MJN:sjg

Attachment

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### ATTACHMENT A SENSITIVE PLANT SPECIES (CNPS 1B or 2, USFS Sensitive) OBSERVED OR WITH THE POTENTIAL FOR OCCURRENCE

Species	State/Federa Status	CNPS List	Other Status	Habitat/Blooming Period	Comments
			AN	IGIOSPERMS: DICOTS	
ASTERACEAE	SUNFLOWER FAMILY				
Deinandra [=Hemizonia floribunda Tecate tarplant	a] —/—	1B.2	USFS	Annual herb; chaparral, sandy drainages; blooms Aug.–Oct.; elevation less than 4,000 feet.	Not observed
<i>Geraea viscida</i> sticky geraea	_/_	2.3	-	Perennial herb; chaparral, mildly disturbed areas; blooms May–June; elevation 1,500– 5,600 feet.	Observed growing near an unpaved road in the eastern side of the survey area
Symphyotrichum defoli San Bernardino aste		1B.2	-	Rhizomatous herb; Cismontane woodland, meadows and seeps; blooms July-Nov.; 0 - 2,000 feet.	Not observed
BERBERIDACEAE	BARBERRY FAMILY				
Berberis fremontii Fremont barberry	_/_	3	-	Shrub; chaparral, Joshua tree woodland, pinyon and juniper woodland, rocky substrate; blooms April–June; elevation 2,700–6,000 feet.	Not observed
BRASSICACEAE	MUSTARD FAMILY				
Streptanthus campestr southern jewel-flowe		1B.3	USFS	Perennial herb; chaparral, lower montane coniferous forest, pinyon and juniper woodland, rocky areas; blooms May–July; elevation 3,000–7,600 feet.	Not observed
FABACEAE	LEGUME FAMILY				
Astragalus douglasii var. perstrictus Jacumba milk-vetch	<i>_/_</i>	1B.2	USFS	Perennial herb; chaparral, valley and foothill grassland, cismontane woodland; blooms April–June; elevation 3,000–4,500 feet.	Observed growing throughout the survey area
Lupinus excubitus var. mountain springs bu lupine		1B.3	_	Perennial shrub; pinyon and juniper woodland, Sonoran scrub; blooms Mar-May; 400-1,400 feet.	Not observed

### ATTACHMENT A SENSITIVE PLANT SPECIES (CNPS 1B or 2, USFS Sensitive) OBSERVED OR WITH THE POTENTIAL FOR OCCURRENCE

### (continued)

Species	State/Federal Status	CNPS List	Other Status	Habitat/Blooming Period	Comments
POLEMONIACEAE	PHLOX FAMILY				
<i>Linanthus bellus</i> desert beauty	_/_	2.3	-	Annual herb; chaparral on sandy soils; blooms April–May; elevation 3,000–4,500 feet.	Not observed
FE = Federally list FT = Federally list	8	ed or threa	itened	STATE LISTED PLANTSCE = State listed endangeredCR = State listed rareCT = State listed threatened	

1A = Species presumed extinct.

1B = Species rare, threatened, or endangered in California and elsewhere. These species are eligible for state listing.

2 = Species rare, threatened, or endangered in California but more common elsewhere. These species are eligible for state listing.

3 = Species for which more information is needed. Distribution, endangerment, and/or taxonomic information is needed.

4 = A watch list of species of limited distribution. These species need to be monitored for changes in the status of their populations.

### **OTHER STATUS**

USFS = US Forest Service Forester's List