PSOMAS

Balancing the Natural and Built Environment

September 16, 2022

Connie Anderson T&B Planning, Inc Director of New Business Services/Project Manager 3200 El Camino Real, Suite 100 Irvine, California 92602 VIA EMAIL canderson@tbplanning.com

Subject:

Results of the Focused Special Status Plant/Desert Native Plant Survey Conducted for the 8th Street East Industrial Project in the City of Palmdale, Los Angeles County, California

Dear Ms. Anderson:

This Letter Report presents the findings of special status plant/desert native plant surveys conducted for the 8th Street East Industrial Project located in the City of Palmdale, Los Angeles County, California (Exhibit 1).

PROJECT LOCATION

The Proposed Project is located on approximately 18-acres in the southern portion of the Antelope Valley in the City of Palmdale. The Project site is situated east of Sierra Highway, west of 8th Street East, and approximately 800 feet south of East Avenue P in the city of Palmdale (Exhibit 1). The Project site is located on the Palmdale U.S. Geologic Survey 7.5-minute quadrangle map (Exhibit 2).

METHODS

Botanical surveys were floristic in nature and consistent with the protocols created by the California Department of Fish and Wildlife (CDFW) (CDFG 2009). In addition, the survey was intended to document the plants regulated by the City of Palmdale and the California Desert Native Plants Act and Native Desert Vegetation Preservation Ordinance (Sections 14.04.010-14.04.120). Prior to the field surveys, a literature search was conducted to identify special status plant species reported from the vicinity of the proposed Project site. Sources reviewed include the USGS for Palmdale, Lancaster East, Lancaster West, Alpine Butte, Littlerock, and Ritter Ridge 7.5-minute quadrangles in the California Native Plant Society's (CNPS') Locational Inventory of Rare and Endangered Vascular Plants of California (CNPS 2022) and the CDFW's California Natural Diversity Database (CNDDB) (CDFW 2022).

Plants regulated by the City of Palmdale and the California Desert Native Plants Act include:

- All species of Burseraceae family (elephant tree)
- Carnegiea gigantea (sahuaro cactus)
- Ferocactus acanthodes (barrel cactus)
- Castela emoryi (crucifixion thorn)

225 South Lake Avenue Suite 1000 Pasadena, CA 91101 Connie Anderson September 16, 2022 Page 2

- *Dudleya saxosa* (Panamint dudleya)
- Pinus longaeva (bristlecone pine)
- Washingtonia filifera (fan palm)
- All species of the family Agavaceae (century plants, nolinas, yuccas)
- All species of the family Cactaceae (cacti), except for the plants listed in subdivisions (b) and (c) of Section 80072 which may be harvested under a permit obtained pursuant to that section
- All species of the family Fouquieriaceae (ocotillo, candlewood)
- All species of the genus Prosopis (mesquites)
- All species of the genus Cercidium (palos verdes)
- Acacia greggii (catclaw)
- Atriplex hymenelytra (desert-holly)
- Dalea spinosa (smoke tree)
- Olneya tesota (desert ironwood), including both dead and live desert ironwood

According to the National Weather Service, Palmdale received 3.88 inches of precipitation for Water Year 2022 to date (October 1, 2021, through August 31, 2022), which is about 67 percent of the normal average (National Weather Service 2022). Where available, reference populations were monitored for annual and difficult-to-detect target species to ensure that the scheduled surveys were comprehensive. This is especially relevant during periods of unusual rainfall patterns or below-average rainfall. If conditions at a nearby reference population are suitable for germination and growth, then it can be inferred that conditions would also be suitable in the survey area. Reference populations were not monitored for species with a California Rare Plant Rank (CRPR) of 4; perennials (e.g., *Atriplex* species) which would be identifiable throughout the year; or for species with no extant, publicly accessible reference population in the Project region.

Psomas Biologists Sarah Thomas and Jack Underwood conducted special status plant surveys on April 14; and May 12, 2022. The surveys comprised 4 total person-hours. The potentially suitable habitats for special status plants within the survey area were systematically surveyed to the extent possible during the site visits (Exhibit 3). All plant species observed were recorded in field notes. Plant species were identified in the field or collected for subsequent identification using keys in Hickman (1993) and Munz (1974). Taxonomy follows Hickman (1993) and/or current scientific data (e.g., scientific journals) for scientific and common names.

SITE DESCRIPTION

Elevations range from approximately 2,610 feet above mean sea level (msl) to approximately 2,620 feet above msl. The Project site is currently undeveloped but has had some previous disturbance and is directly adjacent (south of) a decommissioned portion of the Pacific Union Railroad. Vegetation on the site is comprised mostly of disturbed rubber rabbitbrush scrub, with a small patch of developed/disturbed rubber rabbitbrush scrub in the eastern portion of the site and big sagebrush - rubber rabbitbrush scrub in the drainage that runs along the southern edge of the site (Exhibit 4).

Most of the site has been disturbed historically (e.g., evidence of heavy machine work such as scraping), and contains many trash piles from illegal dumping. Throughout most of the site, the soils have been heavily compacted, making it unsuitable for special status plants. The only potentially suitable habitat

PSOMAS

Connie Anderson September 16, 2022 Page 3

occurs within, and immediately adjacent to the drainage in the southern portion of the site. Soil types in the survey area include Hesperia fine sandy loam, 0 to 2 percent slopes; and Rosamond loam. (USDA NRCS 2007). Exhibit 5 shows a map of soil types throughout the survey area.

SURVEY RESULTS

No special status plants were observed during the survey. No plants regulated by the City of Palmdale and the California Desert Native Plants Act and Native Desert Vegetation Preservation Ordinance were observed on-site during the survey.

A list of all plants observed within the survey area during the focused plant surveys can be found in Attachment. Table 1 below lists the special status plant species known to occur in the vicinity of the Project site along with habitat suitability within the survey area and survey results.

Connie Anderson September 16, 2022 Page 4

TABLE 1 SPECIAL STATUS PLANT SPECIES KNOWN TO OCCUR IN THE SURVEY AREA VICINITY

Scientific Name	Common Name	CDFW	CRPR	Species Background	Potential
Astragalus hornii var. hornii	Horn's milk-vetch		1B.1	Annual herb. Lake margins and alkaline soils in meadows, seeps, and playas; 196–2,788 ft. Southern California County Distribution: Kern, San Bernardino (Presumed extirpated). Blooming period: May–October	No suitable habitat present. Not observed during focused surveys.
Astragalus preussii var. laxiflorus	Lancaster milk-vetch		1B.1	Perennial herb. Chenopod scrub; elevation range unknown due to lack of records. Southern California County Distribution: Kern, Los Angeles, Riverside, San Bernardino. Blooming period: March–May	No suitable habitat present. Not observed during focused surveys.
Calochortus striatus	alkali mariposa lily		1B.2	Perennial bulbiferous herb. Alkaline and mesic soils in chaparral, chenopod scrub, Mojavean desert scrub, meadows, seeps, desert grasslands; 230–5,232 ft. Southern California County Distribution: Kern, Los Angeles, San Bernardino. Blooming period: April–June	No suitable habitat present. Not observed during focused surveys.
Calystegia peirsonii	Peirson's morning-glory		4.2	Perennial rhizomatous herb. Chaparral, chenopod scrub, cismontane woodland, coastal scrub, lower montane coniferous forest, grassland; 98–4,920 ft. Southern California County Distribution: Los Angeles. Blooming period: April–June	No suitable habitat present. Not observed during focused surveys.
Canbya candida	white pygmy-poppy		4.2	Annual herb. Gravelly, sandy, or granitic soils in Joshua tree woodland, Mojavean desert scrub, Pinyon and juniper woodland; 1,968–4,789 ft. Southern California County Distribution: Imperial, Kern, Los Angeles, San Bernardino. Blooming period: March–June	Marginally suitable habitat. Not observed during focused surveys.
Chorizanthe spinosa	Mojave spineflower		4.2	Annual herb. Sometimes alkaline soils in chenopod scrub, Joshua tree woodland, Mojavean desert scrub, and playas; 20–4,264 ft. Southern California County Distribution: Kern, Los Angeles, San Bernardino. Blooming period: March–July	No suitable habitat present. Not observed during focused surveys.
Cymopterus deserticola	desert cymopterus		1B.2	Perennial herb. Sandy soil in Joshua tree woodland and Mojavean desert scrub; 2,066–4,920 ft. Southern California County Distribution: Kern, Los Angeles, San Bernardino. Blooming period: March–May.	No suitable habitat present. Not observed during focused surveys.
Eriastrum rosamondense	Rosamond eriastrum		1B.1	Annual herb. Alkaline hummocks in often sandy soil in openings of chenopod scrub and the edges of vernal pools; 2,296–2,345 ft. Southern California County Distribution: Kern, Los Angeles. Blooming period: April–July	No suitable habitat present. Not observed during focused surveys.
Eriophyllum mohavense	Barstow woolly sunflower		1B.2	Annual herb. Chenopod scrub, Mojavean desert scrub, and playas; 1,640–3,149 ft. Southern California County Distribution: Kern, Los Angeles, San Bernardino. Blooming period: March–May	No suitable habitat present. Not observed during focused surveys.
Gilia latiflora ssp. cuyamensis	Cuyama gilia		4.3	Annual herb. Sandy soil in Pinyon and juniper woodland; 1,952–6,560 ft. Southern California County Distribution: Kern, Los Angeles, Ventura. Blooming period: April–June	No suitable habitat present. Not observed during focused surveys.
Goodmania luteola	golden goodmania		4.2	Annual herb. Alkaline or clay soils in Mojavean desert scrub, meadows, seeps, playas, and grassland; 66–7,216 ft. Southern California County Distribution: Kern, Los Angeles. Blooming period: April–August	No suitable soils. Not observed during focused surveys.
Loeflingia squarrosa var. artemisiarum	sagebrush loeflingia		2B.2	Annual herb. Sandy soil in desert dunes, great basin scrub, and Sonoran desert scrub; 2,296–5,297 ft. Southern California County Distribution: Kern, Los Angeles, San Bernardino. Blooming period: April–May	Marginally suitable habitat. Not observed during focused surveys.
Lycium torreyi	Torrey's box-thorn		4.2	Perennial shrub. Coastal scrub and Sonoran desert scrub; -10–3,660 ft. Southern California County Distribution: Imperial, Riverside, San Bernardino, San Diego. Blooming period: January–November	Marginally suitable habitat. Not observed during focused surveys.
Muilla coronata	crowned muilla		4.2	Perennial cormous herb. Chenopod scrub, Mojavean desert scrub, Joshua tree and Pinyon and juniper woodland; 2,509–6,429 ft. Southern California County Distribution: Kern, Los Angeles, San Bernardino. Blooming period: March–May	Marginally suitable habitat. Not observed during focused surveys.
Opuntia basilaris var. brachyclada	short-joint beavertail		1B.2	Stem succulent shrub. Chaparral, Mojavean desert scrub, Joshua tree, Pinyon and juniper woodland; 1,394–5,904 ft. Southern California County Distribution: Los Angeles, San Bernardino. Blooming period: April–August	No suitable habitat present. Not observed during focused surveys.
Perideridia pringlei	adobe yampah		4.3	Perennial herb. Serpentine or often clay soils in chaparral, cismontane woodland, coastal scrub, Pinyon and juniper woodland; 984–5,904 ft. Southern California County Distribution: Kern, Los Angeles, Ventura. Blooming period: April–July	No suitable soils. Not observed during focused surveys.
Puccinellia simplex	California alkali grass		1B.2	Annual herb. Saline flats, mineral springs; <2,953 ft. Southern California County Distribution: Kern, Los Angeles, San Bernardino. Blooming period: March–May	No suitable habitat present. Not observed during focused surveys.
Yucca brevifolia	western Joshua tree	CST		Perennial herb. Desert flats, slopes; 1,312–7,546 ft. Southern California County Distribution: Kern, Los Angeles, San Bernardino, Riverside. Blooming period: March–June	Potentially suitable habitat present. Not observed during focused surveys.
CDFW: California Department of Fish and Wi	Idlife; CRPR: California Rare Plant	Rank	CRPR		
Species Status: State (CDFW) CST Candidate State Threatened			2B PI 4 PI .1 Se .2 M	ants Rare, Threatened, or Endangered in California and elsewhere ants Rare, Threatened, or Endangered in California, but more common elsewhere ants of limited distribution - watch list eriously threatened in California (over 80% of occurrences threatened; high degree and immediacy of threat) oderately threatened in California (20–80% of occurrences threatened; moderate degree and immediacy of threat) ot very threatened in California (<20% of occurrences threatened; low degree and immediacy of threat or no current threats known)	

PSOMAS

Connie Anderson September 16, 2022 Page 5

Psomas appreciates the opportunity to assist on this project. If you have any comments or questions, please call Marc Blain at (626) 351-2000.

Sincerely,

PSOMAS

Marc T. Blain

Senior Project Manager

Sarah Thomas

Biologist

Enclosures: Exhibit 1 – Regional Location and Local Vicinity

Exhibit 2 – USGS Quadrangle Map

Exhibit 3 – Survey Area

Exhibit 4 – Vegetation Map and Other Areas

Exhibit 5 – Soils Map

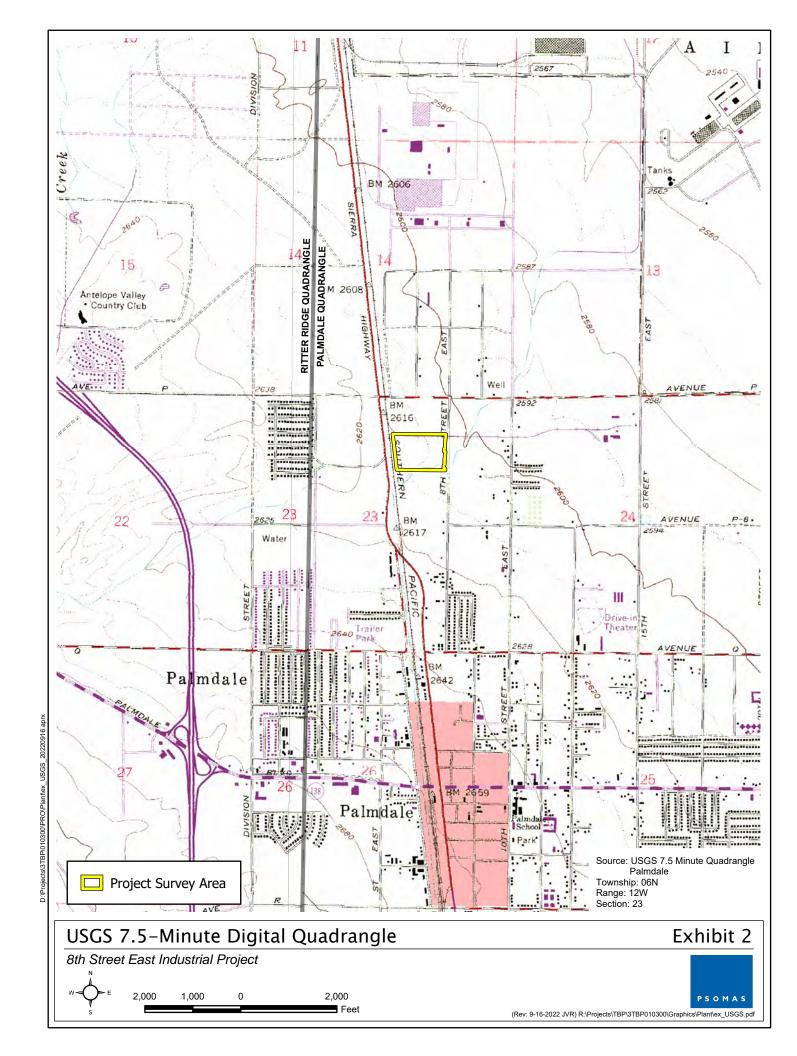
Attachment A – Plant Compendium

R:\Projects\TBP\3TBP010300\Documentation\Plants\8th Street Plant Report-091622.docx

Connie Anderson September 16, 2022 Page 6

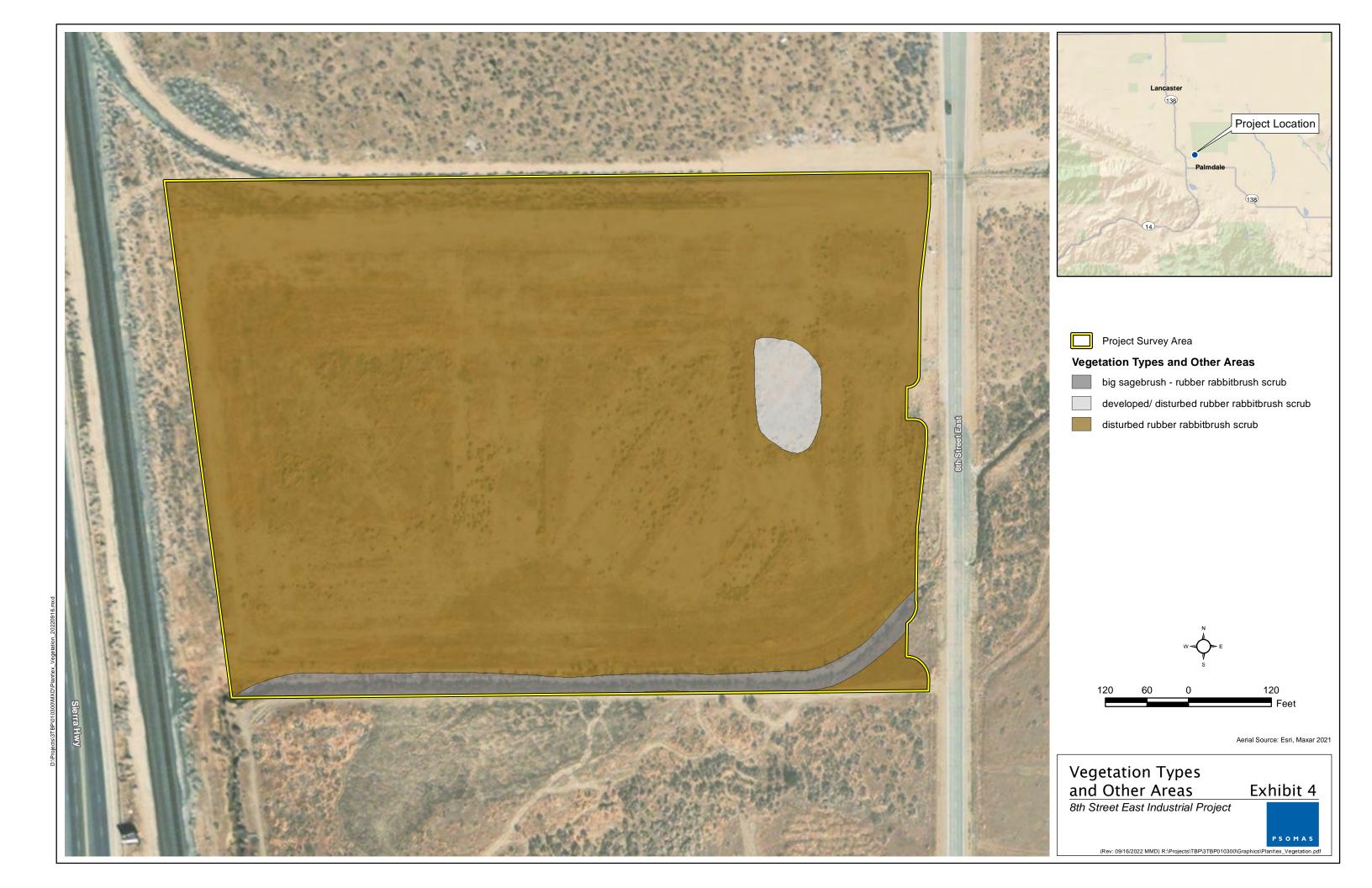
REFERENCES

- California Department of Fish and Game (CDFG). 2009 (November 24). *Protocols for Surveying and Evaluating Impacts to Special Status Native Plant Populations and Natural Communities*. Sacramento, CA: CDFG.
- California Department of Fish and Wildlife (CDFW). 2022. <u>California Natural Diversity Database.</u>
 Records of Occurrence for the USGS Palmdale, Lancaster East, Lancaster West, Alpine Butte, Littlerock, and Ritter Ridge 7.5-minute quadrangle maps. Sacramento, CA: CDFG, Natural Heritage Division.
- California Native Plant Society (CNPS). 2022. <u>Electronic Inventory of Rare and Endangered Vascular Plants of California</u>. Records of Occurrence for the USGS Palmdale, Lancaster East, Lancaster West, Alpine Butte, Littlerock, and Ritter Ridge 7.5-minute quadrangle maps. Sacramento, CA: CNPS. https://rareplants.cnps.org/.
- Hickman, J.C., Ed. 1993. *The Jepson Manual of Higher Plants of California*. Berkeley, CA: University of California Press.
- Jepson Flora Project. 2022. <u>Jepson Online Interchange for California Floristics</u> (Consortium of California Herbaria). Oakland, CA: Regents of the University of California. http://ucjeps.berkeley.edu/interchange.html.
- National Weather Service. 2022. Monthly Precipitation Summary Water Year 2022. Sacramento, CA: National Weather Service, California-Nevada River Forecast Center. https://www.weather.gov/wrh/TextProduct?product=clipmd.
- Sawyer, J., T. Keeler-Wolf, and J. Evens. 2009. *A Manual of California Vegetation*, 2nd Edition. Sacramento, CA: California Native Plant Society Press.
- U.S. Department of Agriculture, Natural Resources Conservation Service (USDA NRCS). 2007 (January 4). Soil Survey Geographic (SSURGO) Database for Los Angeles County, California, West San Fernando Valley Area and Angeles National Forest Area. Fort Worth, TX: USDA, NRCS.











ATTACHMENT A PLANT COMPENDIUM

PLANTS OBSERVED WITHIN THE SURVEY AREA DURING FOCUSED PLANT SURVEYS

Species							
Scientific Name	Common Name						
GYMNOSPERMS							
EPHEDRACEAE – EPHEDRA FAMILY							
Ephedra nevadensis	Nevada ephedra						
EUDI	сотѕ						
ASTERACEAE – SUNFLOWER FAMILY							
Artemisia tridentata	big sagebrush						
Ericameria nauseosa	rubber rabbitbrush						
Lessingia glandulifera	glandular lessingia						
Senecio flaccidus	threadleaf ragwort						
BORAGINACEAE -	- BORAGE FAMILY						
Heliotropium curassavicum var. oculatum	seaside heliotrope						
BRASSICACEAE – MUSTARD FAMILY							
Hirschfeldia incana*	grayish shortpod mustard						
Sisymbrium altissimum*	tumble mustard						
CHENOPODIACEAE – GOOSEFOOT FAMILY							
Atriplex canescens	four-wing saltbush						
EUPHORBIACEAE – SPURGE FAMILY							
Croton setiger	turkey-mullein						
ZYGOPHYLLACEAE – CALTROP FAMILY							
Larrea tridentata	creosote bush						
MONOCOTS							
POACEAE – GRASS FAMILY							
Bromus diandrus*	ripgut grass						
* Non-native or invasive species							