

**Special Status Plant Survey for the
Limonite Avenue Widening – Bain to Homestead Project
Assessor Parcel Numbers: 162-200-008 to -011, 162-200-014, 162-200-022, 162-
200-023, 162-200-026, 162-200-027, 162-210-004, 162-210-011, 162-210-012, 162-
220-001, 162-220-002, 162-220-010, 162-220-011, 162-220-014, 162-220-016, 162-
220-017, 162-230-001, 162-301-007
(Impact Area: 18.17 Acres; Total Area Surveyed: 18.17 Acres) in the City of
Jurupa Valley, Riverside County, California
Corona North and Riverside West USGS 7.5-Minute Series Maps
Township 2 South, Range 6 West, Sections 22 and 27**

Prepared For:

Chase Keys, PE
City of Jurupa Valley
8930 Limonite Avenue
Jurupa Valley, California 92509
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Prepared By:

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Allison D. Rudalevige
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Surveys Conducted By:

Allison D. Rudalevige
Lindsay A. Messett

Surveys Conducted On:

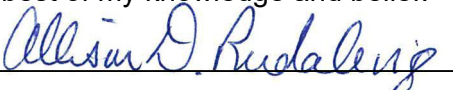
April 24 and July 24, 2019

Report Date:

August 19, 2019

CERTIFICATION

I hereby certify that the statements furnished above and in the attached exhibits present the data and information required for this biological evaluation, and that the facts, statements, and information presented are true and correct to the best of my knowledge and belief.

DATE: 08/20/19 SIGNED: 

August 20, 2019

Mr. Chase Keys
City of Jurupa Valley
8930 Limonite Avenue
Jurupa Valley, California 92509

VIA EMAIL
ckkeys@jurupavalley.org

Subject: Special Status Plant Survey for Limonite Avenue Widening - Bain to Homestead Project Site,
City of Jurupa Valley, California

Dear Mr. Keys:

This Letter Report presents the findings of special status plant surveys conducted for the Limonite Avenue Widening – Bain to Homestead Project (hereinafter referred to as “the proposed Project”) located in the City of Jurupa Valley in Riverside County, California. The proposed Project is located within the Western Riverside County Multiple Species Habitat Conservation Plan (MSHCP) area; this report has been prepared in accordance with the MSHCP guidelines. The original Study Area for the proposed Project included a 250-foot buffer around Limonite Avenue; the survey area for special status plant species is limited to the limits of ground disturbance and temporary construction areas.

PROJECT LOCATION AND DESCRIPTION

The proposed Project is located along Limonite Avenue approximately 2.4 miles east of Interstate 15 (I-15) and 1.0 mile west of Van Buren Avenue (Exhibit 1). The proposed Project site is depicted on the U.S. Geological Survey’s (USGS) Corona North and Riverside West 7.5-minute quadrangles at Township 2 South, Range 6 West, and portions of Sections 22 and 27 of the San Bernardino Base and Meridian (SBBM) (Exhibit 2).

The proposed Project consists of widening Limonite Avenue from Bain Street on the west to Homestead Street on the east, a distance of approximately 3,900 feet (Attachment A)

EXISTING CONDITIONS

The proposed Project is located between 1,000 feet and 1,700 feet north of the Santa Ana River. Topography is relatively flat, with most of the lots graded. Existing elevations along the roadway range from 679 feet above mean sea level (msl) at Bain Street to 695 feet above msl at Homestead Street. Soils in the area consist of Gorgonio loamy sand, deep, 2 to 8 percent slopes; Grangeville fine sandy loam, drained, 0 to 2 percent slopes; Hilmar loamy sand, 0 to 2 percent slopes, eroded; Monserate sandy loam, 0 to 5 percent slopes; Monserate sandy loam, 8 to 15 percent slopes, eroded; Monserate sandy loam, 15 to 25 percent slopes, severely eroded; Ramona sandy loam, 0 to 5 percent slopes, severely eroded; Ramona sandy loam, 5 to 8 percent slopes, eroded; and Terrace escarpments (Exhibit 3).

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Vegetation and other areas along Limonite Avenue consist of non-native grassland, ruderal, riparian scrub, ornamental/mulefat scrub, flood control channel, lined basin, disturbed, livestock feedyard, parks/ornamental, developed/ornamental, and developed. Low density residential development, undeveloped fallow fields, and small livestock operations are located to the north of the proposed Project. A golf course, wastewater treatment facility, and various other institutional and commercial properties are located to the south.

METHODS

Botanical surveys were floristic in nature and consistent with the protocols created by the California Department of Fish and Wildlife (CDFW 2018). Prior to the field surveys, a literature search was updated to identify special status plant species reported from the vicinity of the proposed Project area. Sources reviewed included the California Native Plant Society's (CNPS') Inventory of Rare and Endangered Plants (CNPS 2019) and the CDFW's California Natural Diversity Database (CNDDB) (CDFW 2019a); the search included the USGS Corona North, Fontana, Guasti, and Riverside West 7.5-minute quadrangles. The Regional Conservation Authority (RCA) MSHCP Information Tool was used to determine MSHCP requirements using the following APNs: 000-111-130, 157-020-003, 161-332-003, 161-332-008, 161-332-009, 161-332-010, 161-332-012, 162-200-008, 162-200-009, 162-200-010, 162-200-011, 162-200-014, 162-200-022, 162-200-023, 162-200-026, 162-200-027, 162-210-004, 162-210-011, 162-210-012, 162-220-001, 162-220-002, 162-220-008, 162-220-010, 162-220-011, 162-220-014, 162-220-016, 162-220-017, 162-230-001, 162-301-005, 162-301-006, 162-301-007, 162-302-001, 162-302-002, 162-302-003, 162-302-008, 162-302-009, and 162-302-021.

Rainfall received in the winter and spring determines the germination of many annual and perennial herb species. The region received approximately 12.5 inches of precipitation between July 1, 2018 and June 30, 2019 (data taken from U.C. Riverside – Los Angeles Basin – Station No. 44) (CIMIS 2019). The average annual precipitation for this area is approximately 10 inches. Observed normal rainfall amounts indicate suitable conditions for plant germination.

Surveys were conducted on April 24, 2019, by Psomas Senior Biologists Allison Rudalevige and Lindsay Messett and on July 24, 2019 by Ms. Rudalevige. The total number of person-hours spent surveying was approximately 3 hours. The special status plant survey area consisted of the 18.17-acre project impact boundary; inaccessible areas were surveyed from Limonite Avenue through binoculars. All plant species observed were recorded in field notes. Plant species were identified in the field or collected for future identification. Plants were identified to the taxonomic level necessary to determine whether or not they are a special status species. Plants were identified using taxonomic keys, descriptions, and illustrations in Jepson Flora Project (2018), Baldwin et al. (2012), Hickman (1993), and Munz (1974). Nomenclature of plant taxa conform to the *Special Vascular Plants, Bryophytes, and Lichens List* (CDFW 2019b) for special status species and the Jepson eFlora (Jepson Flora Project 2018) for all other taxa.

Any special status plant species observed would be mapped with a Global Positioning System (GPS) unit and data would be collected on the number and phenology of individuals (estimated for large populations), microsite characteristics such as slope, aspect, soil texture, surrounding habitat, and associated species.

SURVEY RESULTS

According to the RCA MSHCP Information Tool, focused plant surveys are required for Narrow Endemic plant species (i.e., San Diego ambrosia [*Ambrosia pumila*], Brand's star phacelia [*Phacelia stellaris*], and San Miguel savory [*Clinopodium chandleri*]) if suitable habitat is present in the survey area. In addition, 16 species not covered by the MSHCP have been reported in the vicinity of the survey

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area based on the literature review. Table 1 identifies the special status plants reported from the literature review with their status, their potential to occur in the survey area, and the survey results. A list of all plants observed during special status plant surveys is included in Attachment B.

TABLE 1
SPECIAL STATUS PLANT SPECIES REPORTED
FROM THE PROJECT REGION

Species	Status				Potential to Occur; Results of Focused Surveys
	USFWS	CDFW	CRPR	MSHCP Narrow Endemic	
<i>Abronia villosa</i> var. <i>aurita</i> chaparral sand-verbena	–	–	1B.1	–	Not expected to occur; no suitable habitat and not observed during focused surveys.
<i>Ambrosia pumila</i> San Diego ambrosia	FE	–	1B.1	yes	Not expected to occur; not observed during focused surveys.
<i>Arenaria paludicola</i> marsh sandwort	FE	SE	1B.1	–	Not expected to occur; no suitable habitat and not observed during focused surveys.
<i>Calochortus catalinae</i> Catalina mariposa lily	–	–	4.2	–	Not expected to occur; no suitable soils, at edge of current known range, and not observed during focused surveys.
<i>Calochortus plummerae</i> Plummer's mariposa lily	–	–	4.2	–	Not expected to occur; no suitable habitat and not observed during focused surveys.
<i>Chloropyron maritimum</i> ssp. <i>maritimum</i> salt marsh bird's-beak	FE	SE	1B.2	–	Not expected to occur; no suitable habitat and not observed during focused surveys.
<i>Cladium californicum</i> California sawgrass	–	–	2B.2	–	Not expected to occur; no suitable habitat and not observed during focused surveys.
<i>Clinopodium chandleri</i> San Miguel savory	–	–	1B.2	yes	Not expected to occur; no suitable habitat, outside the current known range, and not observed during focused surveys.
<i>Deinandra paniculata</i> paniculate tarplant	–	–	4.2	–	Not expected to occur; not observed during focused surveys.
<i>Horkelia cuneata</i> var. <i>puberula</i> mesa horkelia	–	–	1B.1	–	Not expected to occur; no suitable habitat and not observed during focused surveys.

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TABLE 1
SPECIAL STATUS PLANT SPECIES REPORTED
FROM THE PROJECT REGION

Species	Status				Potential to Occur; Results of Focused Surveys
	USFWS	CDFW	CRPR	MSHCP Narrow Endemic	
<i>Lepidium virginicum</i> var. <i>robinsonii</i> Robinson's pepper-grass	–	–	4.3	–	Not expected to occur; no suitable habitat and not observed during focused surveys.
<i>Lycium parishii</i> Parish's desert-thorn	–	–	2B.3	–	Not expected to occur; no suitable habitat and not observed during focused surveys.
<i>Malacothamnus parishii</i> Parish's bush-mallow	–	–	1A	–	Not expected to occur; no suitable habitat, considered extirpated, and not observed during focused surveys.
<i>Monardella pringlei</i> Pringle's monardella	–	–	1A	–	Not expected to occur; no suitable habitat, considered extirpated, and not observed during focused surveys.
<i>Phacelia stellaris</i> Brand's star phacelia	–	–	1B.1	yes	Not expected to occur; no suitable habitat and not observed during focused surveys.
<i>Pseudognaphalium</i> <i>leucocephalum</i> white rabbit-tobacco	–	–	2B.2	–	Not expected to occur; not observed during focused surveys.
<i>Senecio aphanactis</i> chaparral ragwort	–	–	2B.2	–	Not expected to occur; no suitable habitat and not observed during focused surveys.
<i>Sphenopholis obtusata</i> prairie wedge grass	–	–	2B.2	–	Not expected to occur; no suitable habitat and not observed during focused surveys.
<i>Symphyotrichum defoliatum</i> San Bernardino aster	–	–	1B.2	–	Not expected to occur; not observed during focused surveys.

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**TABLE 1
SPECIAL STATUS PLANT SPECIES REPORTED
FROM THE PROJECT REGION**

Species	Status				Potential to Occur; Results of Focused Surveys
	USFWS	CDFW	CRPR	MSHCP Narrow Endemic	
USFWS: U.S. Fish and Wildlife Service; CDFW: California Department of Fish and Wildlife; CRPR: California Rare Plant Rank; MSHCP: Multiple Species Habitat Conservation Plan.					
<u>Federal (USFWS)</u>		<u>State (CDFW)</u>			
FE	Endangered	SE	Endangered		
<u>California Rare Plant Rank (CRPR)</u>					
1A	Plants presumed extirpated in California and either rare or extinct elsewhere				
1B	Plants Rare, Threatened, or Endangered in California and elsewhere				
2B	Plants Rare, Threatened, or Endangered in California but more common elsewhere				
4	Plants of limited distribution – A Watch List				
<u>CRPR Threat Code Extensions</u>					
None	Plants lacking any threat information				
.1	Seriously threatened in California (over 80% of occurrences threatened; high degree and immediacy of threat)				
.2	Fairly threatened in California (20–80% of occurrences threatened; moderate degree and immediacy of threat)				
.3	Not very threatened in California (<20% of occurrences threatened; low degree and immediacy of threat or no current threats known)				

CONCLUSIONS

Based on the results of the focused surveys, no special status plant species were observed in the survey area. While there is a minimal potential for false negative survey results (i.e., a species being present, but not detectable, on a site), the above average rainfall experienced in the winter and spring prior to focused surveys provides good growing conditions and increases the chance that special status plant species would be observable on site, if present. Therefore, the proposed Project would not impact special status plant species and no avoidance, minimization, or mitigation measures would be necessary.

If you have any comments or questions, please call Kent Norton at (714) 751-7373.

Sincerely,

P S O M A S



Ann M. Johnston
Vice President/Principal, Resource Management



Kent Norton, AICP, REPA
Senior Project Manager

Enclosures: Exhibit 1 – Project Location
 Exhibit 2 – USGS 7.5-Minute Digital Quadrangle
 Exhibit 3 – Soil Types
 Attachment A – Conceptual Improvement Plans
 Attachment B – Plant Compendium

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REFERENCES

- Baldwin, B.G., D.J. Keil, R. Patterson, T.J. Rosatti, and D.H. Wilken (Eds.). 2012. *The Jepson Manual: Vascular Plants of California* (Second ed.). Berkeley, CA: University of California Press.
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- Munz, P.A. 1974. *A Flora of Southern California*. Berkeley, CA: University of California Press.

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Project Location

Limonite Avenue Widening – Bain to Homestead Project



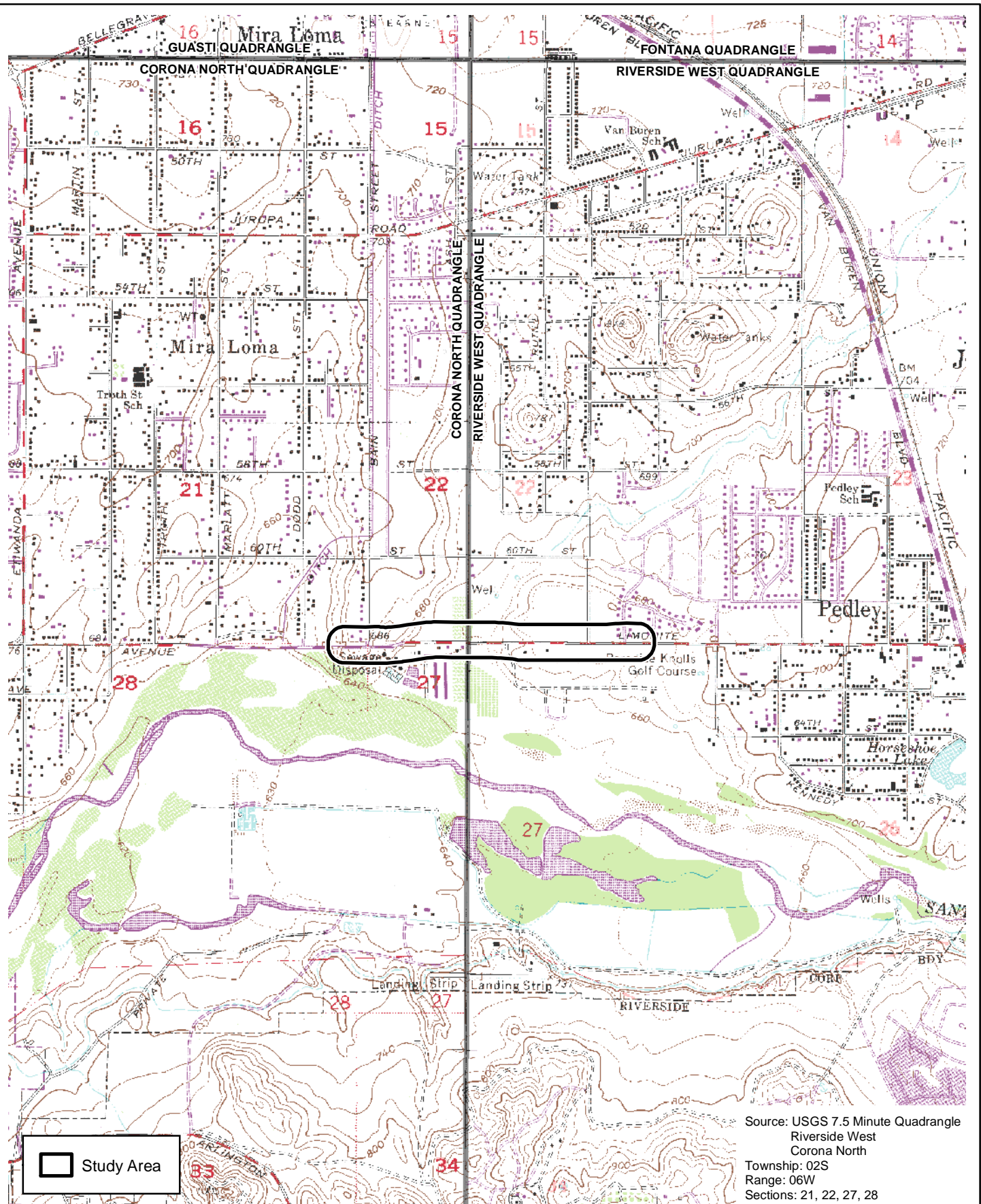
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Exhibit 1



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USGS 7.5-Minute Digital Quadrangle

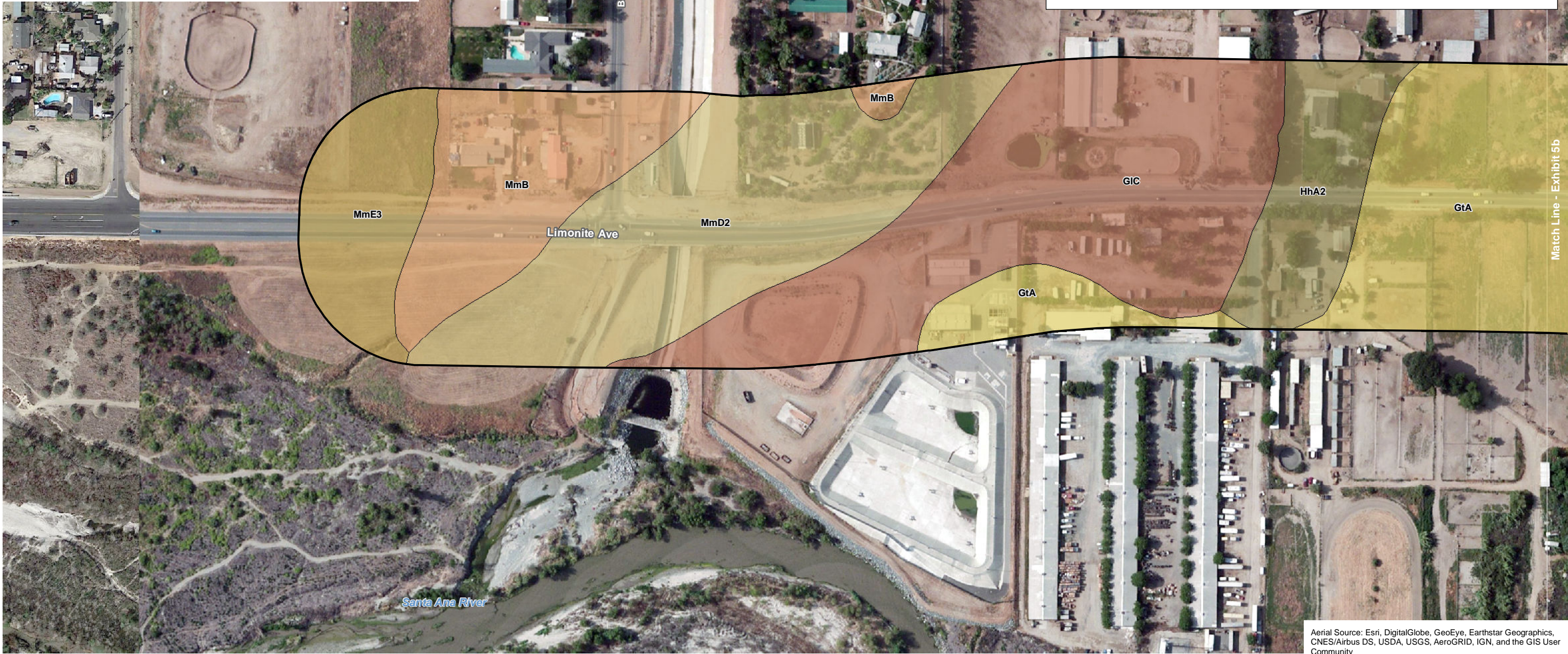
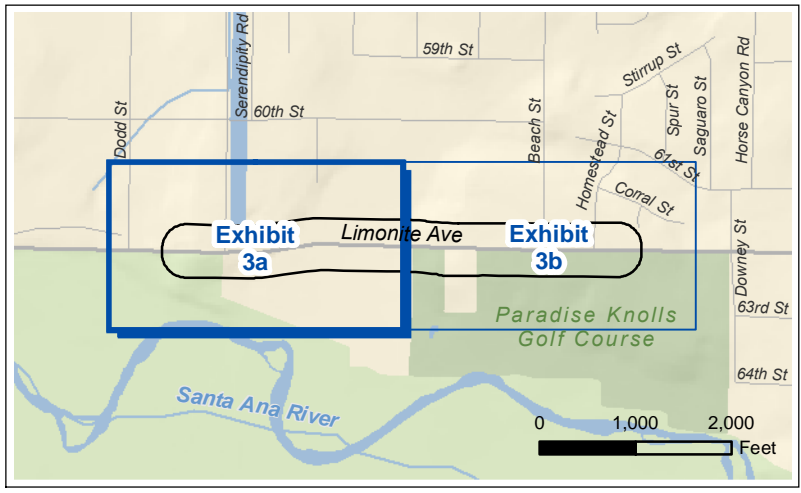
Limonite Avenue Widening – Bain to Homestead Project

Exhibit 2



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Study Area

Soil Types

- GIC: Gorgonio loamy sand, deep, 2 to 8 percent slopes
- GtA: Grangeville fine sandy loam, drained, 0 to 2 percent slopes
- HhA2: Hilmar loamy sand, 0 to 2 percent slopes, eroded
- MmB: Monserate sandy loam, 0 to 5 percent slopes
- MmD2: Monserate sandy loam, 8 to 15 percent slopes, eroded
- MmE3: Monserate sandy loam, 15 to 25 percent slopes, severely eroded
- RaB3: Ramona sandy loam, 0 to 5 percent slopes, severely eroded
- RaC2: Ramona sandy loam, 5 to 8 percent slopes, eroded
- TeG: Terrace escarpments

Soil Types

Limonite Avenue Widening – Bain to Homestead Project

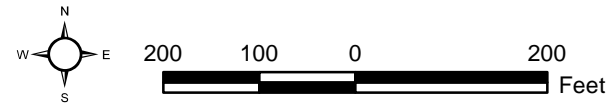
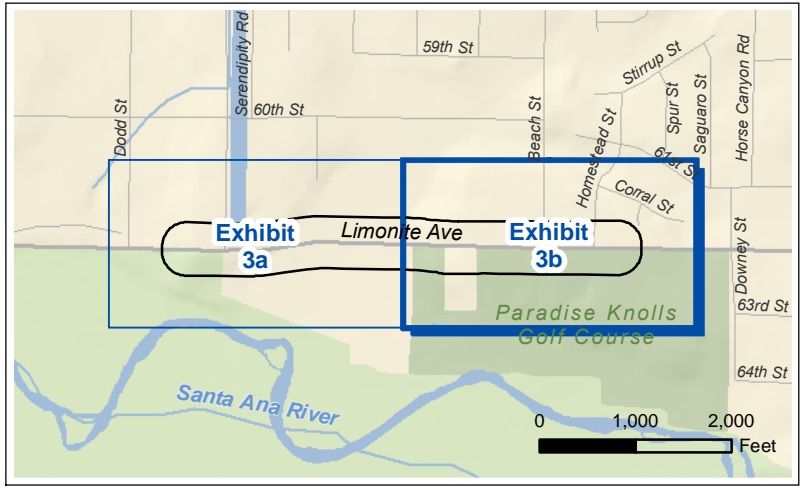


Exhibit 3a





- Study Area**
- Soil Types**
- GIC: Gorgonio loamy sand, deep, 2 to 8 percent slopes
 - GtA: Grangeville fine sandy loam, drained, 0 to 2 percent slopes
 - HhA2: Hilmar loamy sand, 0 to 2 percent slopes, eroded
 - MmB: Monserate sandy loam, 0 to 5 percent slopes
 - MmD2: Monserate sandy loam, 8 to 15 percent slopes, eroded
 - MmE3: Monserate sandy loam, 15 to 25 percent slopes, severely eroded
 - RaB3: Ramona sandy loam, 0 to 5 percent slopes, severely eroded
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 - TeG: Terrace escarpments

Soil Types

Limonite Avenue Widening – Bain to Homestead Project

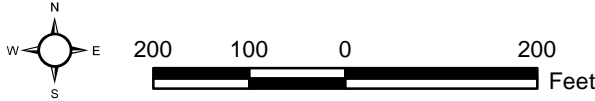
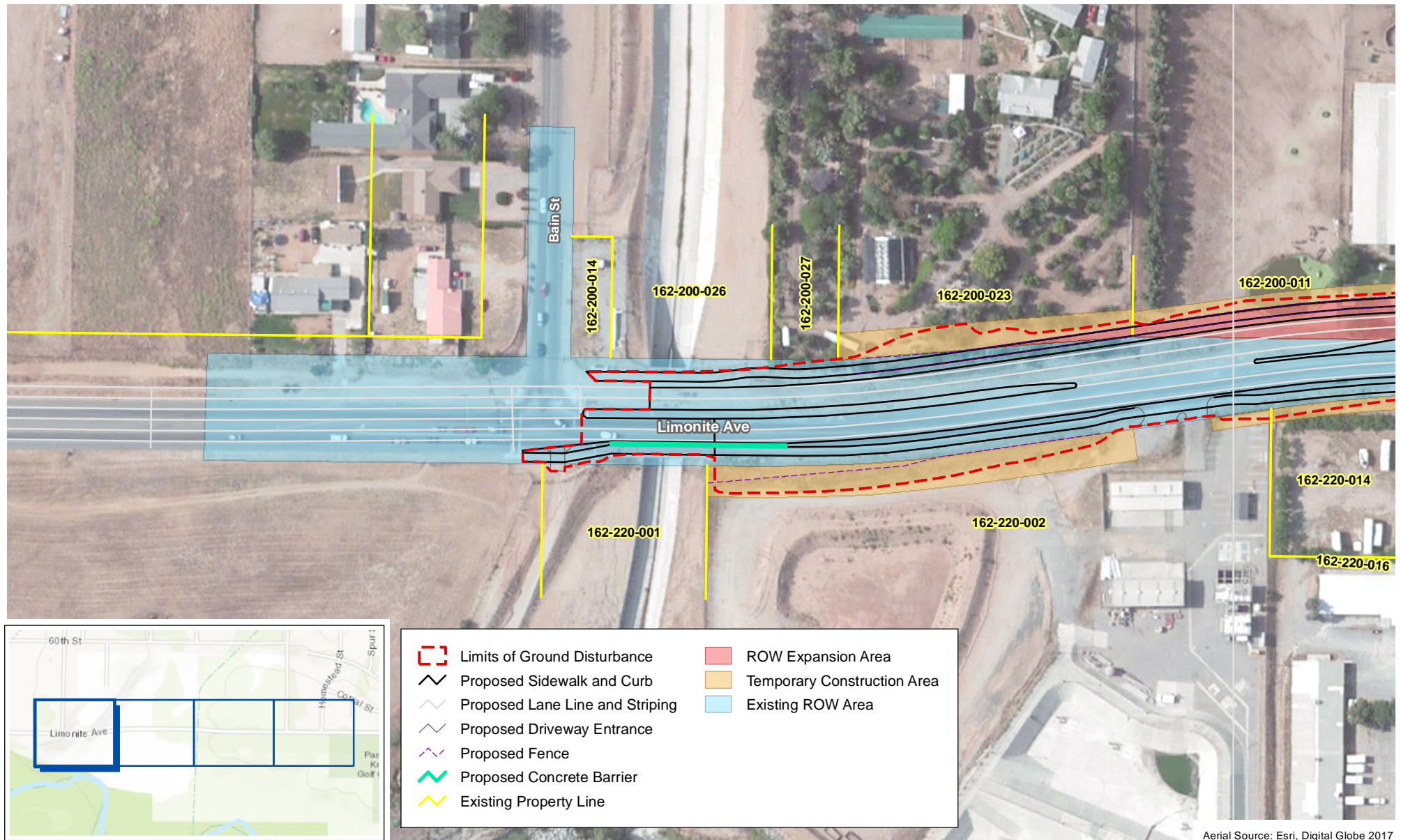


Exhibit 3b



ATTACHMENT A
CONCEPTUAL IMPROVEMENT PLANS

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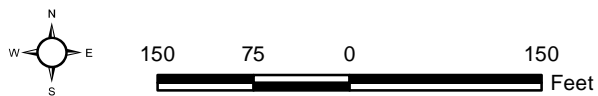


Aerial Source: Esri, Digital Globe 2017

Conceptual Improvement Plans

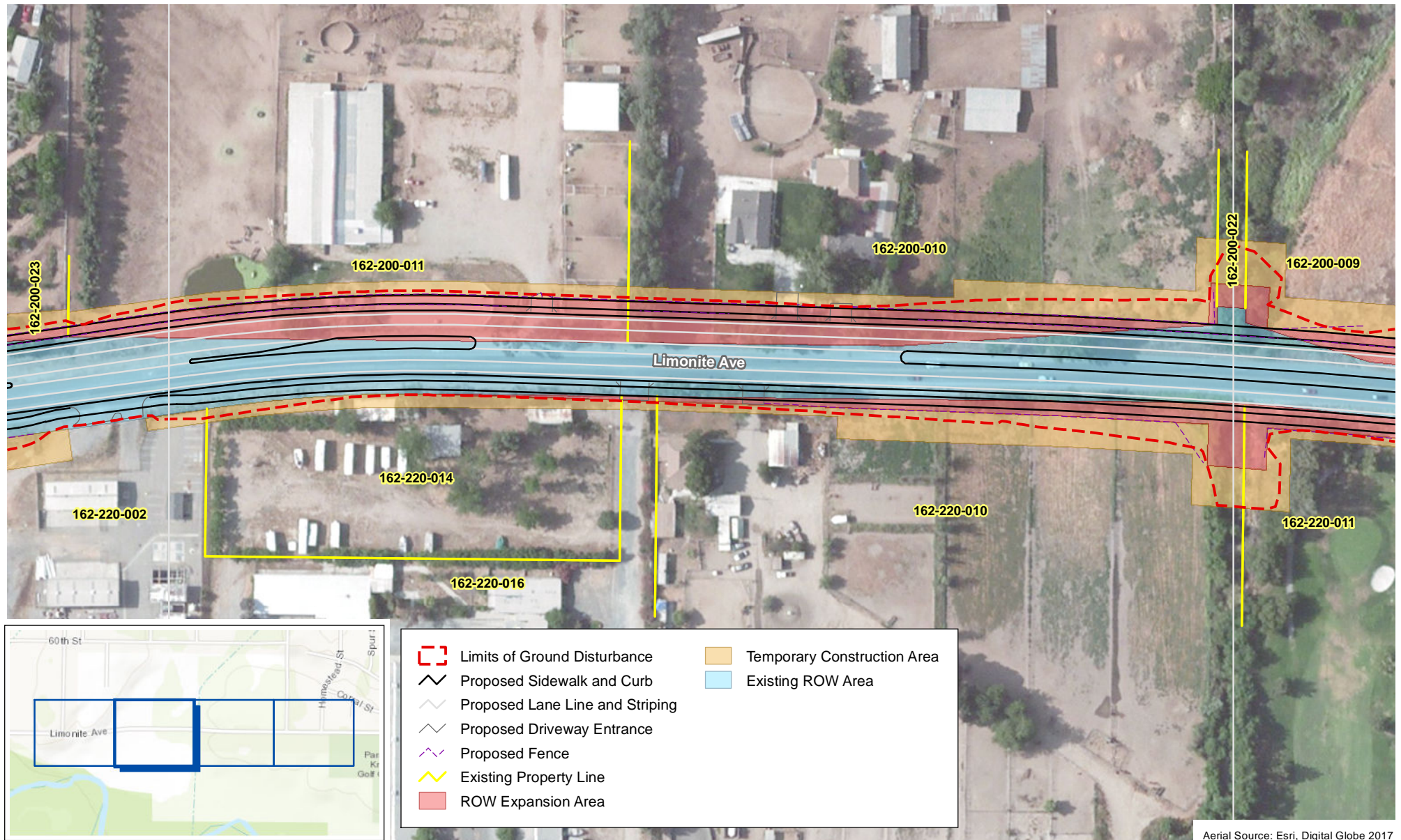
Limonite Avenue Widening Project – Bain Street to Homestead Street

Attachment A



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Conceptual Improvement Plans

Limonite Avenue Widening Project – Bain Street to Homestead Street



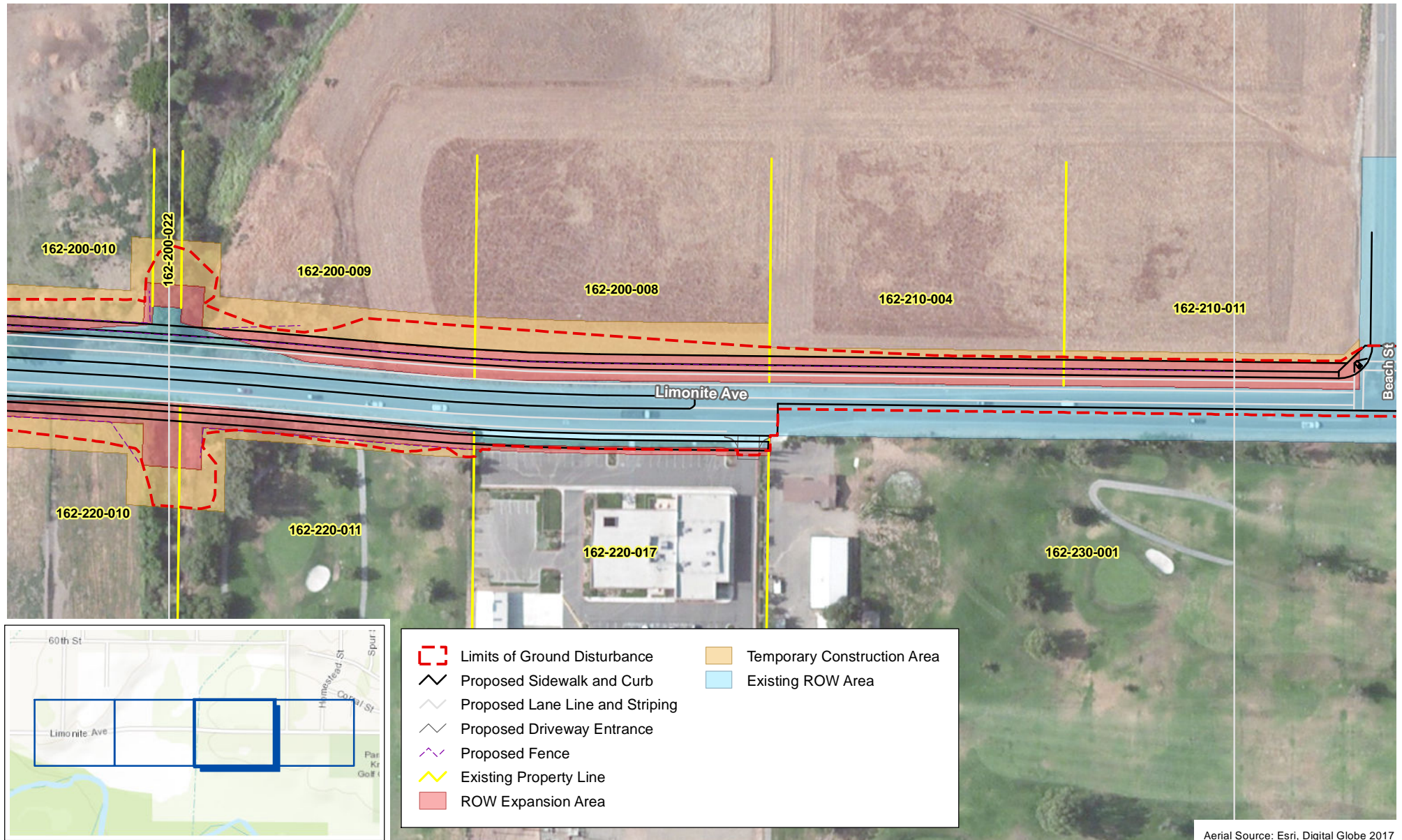
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Attachment A



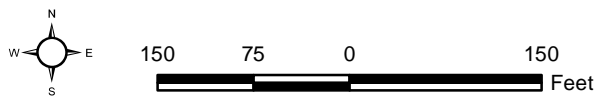
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Conceptual Improvement Plans

Limonite Avenue Widening Project – Bain Street to Homestead Street

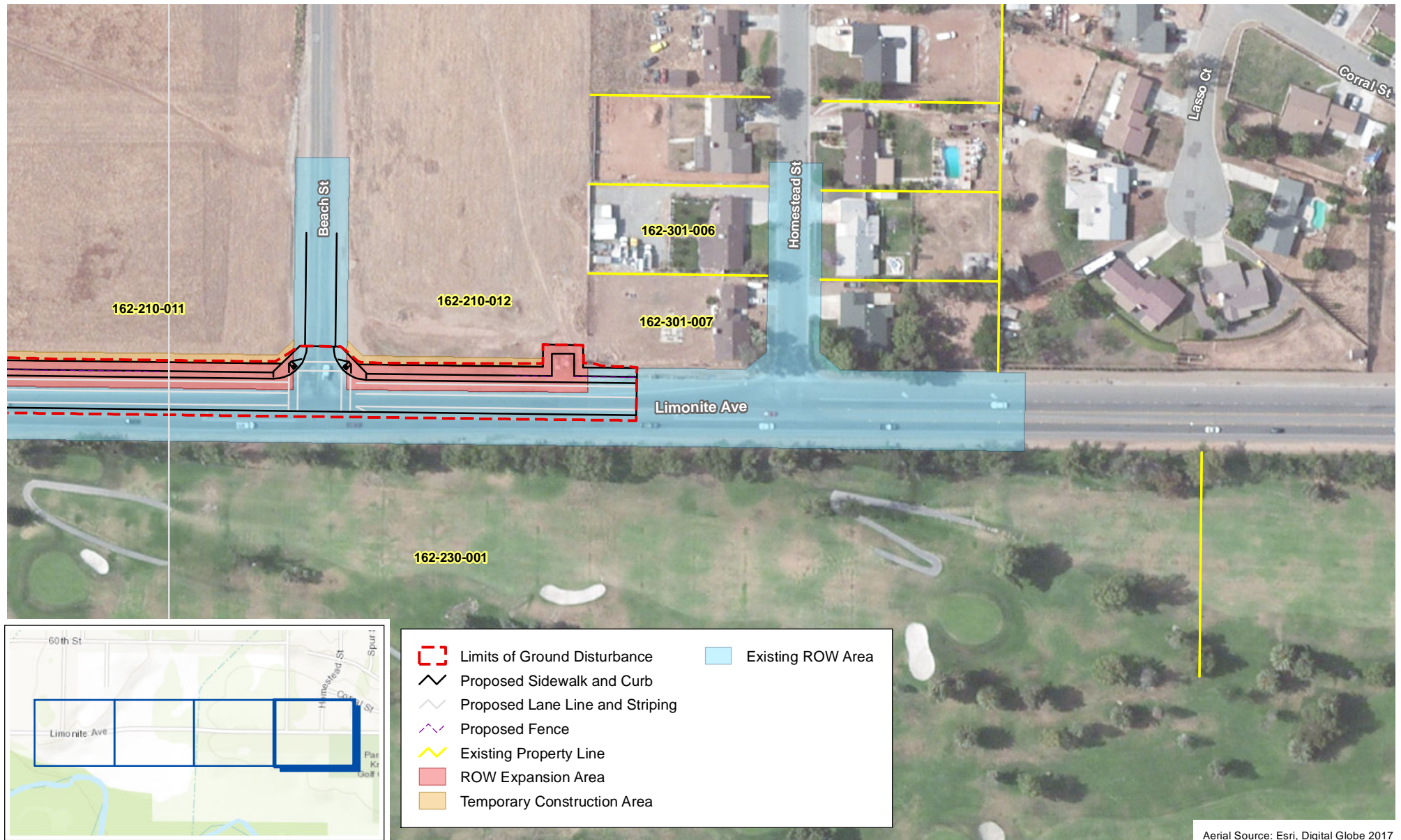


Attachment A



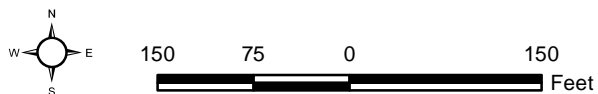
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Conceptual Improvement Plans

Limonite Avenue Widening Project – Bain Street to Homestead Street



Attachment A



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ATTACHMENT B
PLANT COMPENDIUM

PLANTS OBSERVED DURING SPECIAL STATUS PLANT SURVEYS

Species	
Scientific Name	Common Name
GYMNOSPERMS	
PINACEAE – PINE FAMILY	
<i>Pinus</i> sp.	pine
EUDICOTS	
ANACARDIACEAE – SUMAC FAMILY	
<i>Schinus molle</i> *	pepper tree
APIACEAE – CARROT FAMILY	
<i>Conium maculatum</i> *	poison hemlock
ASTERACEAE – SUNFLOWER FAMILY	
<i>Ambrosia psilostachya</i>	western ragweed
<i>Baccharis salicifolia</i> ssp. <i>salicifolia</i>	mule fat
<i>Cirsium vulgare</i> *	bull thistle
<i>Cotula australis</i> *	Australian cotula
<i>Erigeron bonariensis</i> *	flax-leaved horseweed
<i>Hedypnois cretica</i> *	Crete's hedypnois
<i>Helianthus annuus</i>	annual sunflower
<i>Lactuca serriola</i> *	prickly lettuce
<i>Oncosiphon piluliferum</i> *	stinknet
<i>Pseudognaphalium luteoalbum</i> *	white lamb cudweed
<i>Senecio vulgaris</i> *	common groundsel
<i>Sonchus asper</i> ssp. <i>asper</i> *	prickly sow thistle
<i>Sonchus oleraceus</i> *	common sow thistle
<i>Verbesina encelioides</i> ssp. <i>exauriculata</i> *	golden crownbeard
<i>Xanthium spinosum</i> *	spiny cocklebur
BRASSICACEAE – MUSTARD FAMILY	
<i>Hirschfeldia incana</i> *	grayish shortpod mustard
<i>Lepidium didymum</i> *	lesser swine grass
<i>Raphanus sativus</i> *	radish
<i>Sisymbrium irio</i> *	London rocket
CHENOPODIACEAE – GOOSEFOOT FAMILY	
<i>Salsola tragus</i> *	Russian thistle
EUPHORBIACEAE – SPURGE FAMILY	
<i>Croton californicus</i>	California croton
<i>Croton setiger</i>	turkey-mullein
<i>Euphorbia maculata</i> *	spotted spurge
FABACEAE – LEGUME FAMILY	
<i>Medicago sativa</i> *	alfalfa
<i>Parkinsonia aculeata</i> *	Mexican palo verde
GERANIACEAE – GERANIUM FAMILY	
<i>Erodium cicutarium</i> *	redstem filaree
<i>Erodium moschatum</i> *	greenstem filaree
LAMIACEAE – MINT FAMILY	
<i>Marrubium vulgare</i> *	common horehound

PLANTS OBSERVED DURING SPECIAL STATUS PLANT SURVEYS

Species	
Scientific Name	Common Name
MALVACEAE – MALLOW FAMILY	
<i>Malva parviflora</i> *	cheeseweed
<i>Malvella leprosa</i>	alkali-mallow
MELIACEAE – MAHOGANY FAMILY	
<i>Melia azedarach</i> *	china berry
MYRTACEAE – MYRTLE FAMILY	
<i>Eucalyptus</i> sp.*	gum tree
NYCTAGINACEAE – FOUR O'CLOCK FAMILY	
<i>Bougainvillea</i> sp.	bougainvillea
OLEACEAE – OLIVE FAMILY	
<i>Fraxinus uhdei</i> *	shamel ash
ONAGRACEAE – EVENING PRIMROSE FAMILY	
<i>Eulobus californicus</i>	California eulobus
PASSIFLORACEAE – PASSION FLOWER FAMILY	
<i>Passiflora caerulea</i> *	blue passion flower
POLYGONACEAE – BUCKWHEAT FAMILY	
<i>Polygonum aviculare</i> *	knotweed
SALICACEAE – WILLOW FAMILY	
<i>Salix gooddingii</i>	Goodding's black willow
SIMAROUBACEAE – SIMAROUBA FAMILY	
<i>Ailanthus altissima</i> *	tree of heaven
SOLANACEAE – NIGHTSHADE FAMILY	
<i>Datura wrightii</i>	Wright's jimsonweed
<i>Nicotiana glauca</i> *	tree tobacco
URTICACEAE – NETTLE FAMILY	
<i>Urtica urens</i> *	dwarf nettle
VERBENACEAE – VERVAIN FAMILY	
<i>Lantana</i> sp.*	lantana
ZYGOPHYLLACEAE – CALTROP FAMILY	
<i>Tribulus terrestris</i> *	puncture vine
MONOCOTS	
AGAVACEAE – AGAVE FAMILY	
<i>Agave</i> sp.*	century plant
ARECACEAE – PALM FAMILY	
<i>Phoenix</i> sp.*	palm
<i>Washingtonia robusta</i> *	Mexican fan palm
CYPERACEAE – SEDGE FAMILY	
<i>Cyperus eragrostis</i>	lovegrass flatsedge
POACEAE – GRASS FAMILY	
<i>Avena fatua</i> *	wild oat
<i>Cynodon dactylon</i> *	Bermuda grass
<i>Hordeum murinum</i> *	wall barley
<i>Phalaris minor</i> *	little-seeded canary grass

PLANTS OBSERVED DURING SPECIAL STATUS PLANT SURVEYS

Species	
Scientific Name	Common Name
<i>Phalaris paradoxa</i> *	hood canary grass
<i>Schismus barbatus</i> *	barbed Mediterranean grass
* Non-native or invasive species	