



<b>PROJECT REFERENCE NO.:</b> CUP 2721. Frazier Mountain Peak, Lockwood Valley	<b>PROJECT PLANNER:</b> Eric Nagy
<b>DATE:</b> 6 April 2005	<b>PROJECT BIOLOGIST:</b> David L. Magney and Cher Batchelor of David Magney Environmental Consulting (DMEC)

**PROJECT LOCATION:** The project site is located on U.S. Forest Service land atop Frazier Mountain Peak in the Lockwood Valley area of northern Ventura County, California. The nearest road is Forest Service Road 8N04. The project site is located at SE¼ SE¼ SW¼ of S14, T8N, R20W, Frazier Mountain, California Quadrangle (USGS 7.5-minute Series Topographic Map) and at approximately 34.77544° North, 118.96962° West.

**PROJECT ADDRESS:** APN 400-0-180-020.

**PROJECT DESCRIPTION:** AT&T Wireless is requesting approval for a Modification to Conditional Use Permit (CUP-2721), and to co-locate six antennas and related equipment at an existing tower facility owned by American Tower Corporation. The project consists of utilizing an existing 115-foot (35-m) communications tower and equipment shelter to co-locate six antennas, one 4-foot microwave dish, and one GPS/BCCH antenna on an existing 115-foot tower. Six equipment cabinets will be located within an existing shelter and equipment compound. The site was previously operated by Verizon Wireless, but are no longer onsite. The total lease area is 1,496 square feet (456 sq. m). AT&T will utilize the existing equipment compound, the tower height will not increase, and the existing footprint will remain the same.

**ENVIRONMENTAL SETTING:** Currently, the site is developed with a 115-foot tower. The project site sits atop Frazier Mountain Peak, and the surrounding landscape in the vicinity of the project site consists of relatively steep topography. The elevation onsite is approximately 7,980 feet (2,432 m).

Currently, the entire vicinity of the project site is snowed in, and the project site is not accessible due to road closures. Even if the project site was accessible, plant identification would be difficult since the area is covered in snow and many plant species are dormant. Due to these conditions, DMEC did not conduct a field survey of the project site; however, DMEC has been in the vicinity of the project site in the past and has apriori knowledge of the fauna and flora of the area in the immediate vicinity of the site. DMEC has also compiled an extensive list of plant species that have been reported in the past as occurring on Frazier Mountain. Table 1, Vascular Plants of Frazier Mountain, lists plants reported by David Magney and other local botanists as occurring on Frazier Mountain, and provides the scientific, common, and family names, habit, date observed, collector, and herbarium specimens are deposited in for each plant species reported. Not all of these plants will occur at the project site.

At least 204 plant species have been either directly observed by DMEC during previous surveys or have been reported by other botanists in the past. Of the 204 plant species listed in Table 1, 72 of them are special-status plant species (at least locally rare or uncommon). The majority of 72 are Ventura County Locally Rare plant species, which are defined as those plants with ten or fewer populations in the County by CNPS (Magney 2005). DMEC also conducted a search of the CDFG's California Natural Diversity Database (CNDDB) RareFind3 (CDFG 2004) to account for all CNDDB-tracked (and reported) special-status plant and wildlife species and habitats in the vicinity of the project site. Ten (10) of the 72 special-status plant species are tracked by CNDDB, including one tracked species that is reported on Frazier Mountain (*Monardella linioides* ssp. *oblonga*) by David Magney (1994). Special-status plant species are discussed in further detail below, and the results table of the CNDDB search is provided after page 12 of this study. Only a few of the 72 special-status plants known or expected to occur on Frazier Mountain would occur in the vicinity of the project site.

**Table 1. Vascular Plants of Frazier Mountain**

Botanical Name <sup>1</sup>	Common Name	Habit <sup>2</sup>	Family	Date Observed	Evidence and Likelihood of Occurrence if a CNDDDB-Tracked Species <sup>3</sup>
<i>Abies lowiana</i>	California White Fir	T	Pinaceae	31-Apr-1935; 15-Jun-1896	<i>G.T. Nordstrom</i> 458 UC; <i>W.R. Dudley &amp; F. H. Lamb</i> 4545 UC & DS
<i>Acanthomintha obovata</i> ssp. <i>cordata</i>	Heartleaf Thornmint	AH	Lamiaceae	4-Jun-1959	<i>J.R. Haller</i> 1425 SBBG
<i>Achillea millefolium</i> var. <i>occidentale</i>	Woolly White Yarrow	PH	Asteraceae	1994	Observed by D. Magney
<i>Achnatherum hymenoides</i>	Indian Ricegrass	PG	Poaceae	1994	Observed by D. Magney
<i>Achnatherum speciosum</i>	Desert Needlegrass	PG	Poaceae	1994	Observed by D. Magney
<i>Adenostoma fasciculatum</i>	Chamise	S	Rosaceae	1994	Observed by D. Magney
<i>Agoseris heterophylla</i> var. <i>cryptopleura</i> +	Mountain Dandelion	AH	Asteraceae	3-Jun-1933	<i>Carl Epling &amp; Louis Wheeler</i> 1813 UC
<i>Agoseris retrorsa</i>	Retorse Mountain Dandelion	PH	Asteraceae	3-Jun-1933	<i>Carl Epling &amp; Louise Wheeler</i> 1796 UC; <i>C. Davidson</i> 2860 RSA
<i>Allium burlewii</i>	Burlew Onion	PH	Alliaceae	3-Jun-1933	<i>Carl Epling &amp; Louis Wheeler</i> 1807 UC
<i>Allium campanulatum</i>	Sierra Onion	PH	Alliaceae	1-Jul-1905	<i>H.M. Hall</i> 6607 UC
<b><i>Allium howellii</i> var. <i>clokeyi</i>+</b>	<b>Mount Pinos Onion</b>	<b>PH</b>	<b>Alliaceae</b>		<b>Expected (High)</b>
<i>Allophyllum gilioides</i> ssp. <i>violaceum</i> +	Violet Phlox	AH	Polemoniaceae		<i>D. Wilken</i> 7810 UCSB
<i>Amelanchier utahensis</i> +	Utah Service-berry	S	Rosaceae	17-Jun-1896	<i>W.R. Dudley &amp; F.H. Lamb</i> 4564 UC
<i>Aquilegia formosa</i> var. <i>truncata</i>	Truncate Crimson Columbine	PH	Ranunculaceae	1994	Observed by D. Magney
<i>Arabis pulchra</i> var. <i>pulchra</i> +	Desert Rock Cress	PH	Brassicaceae	1994	Observed by D. Magney
<i>Arabis repanda</i> var. <i>repanda</i> +	Yosemite Rock Cress	PH	Brassicaceae	1-Jul-1905	<i>H.M. Hall</i> 6614 UC
<i>Arceuthobium campylopodum</i>	Western Dwarf Mistletoe	PH	Viscaceae	1994	Observed by D. Magney
<i>Arctostaphylos glandulosa</i> ssp. <i>glandulosa</i>	Eastwood Manzanita	S	Ericaceae		<i>J.E. Sowder</i> 201 UC
<i>Arctostaphylos parryana</i> ssp. <i>parryana</i>	Parry Manzanita	S	Ericaceae	1994	Observed by D. Magney
<i>Artemisia tridentata</i> ssp. <i>tridentata</i>	Great Basin Sagebrush	S	Asteraceae	1994	Observed by D. Magney
<i>Artemisia tridentata</i> ssp. <i>vaseyana</i> +	Vasey's Great Basin Sagebrush	S	Asteraceae	15-Sep-1955	<i>E.C. Twisselmann</i> 2384 JEPS
<i>Asclepias californica</i> ssp. <i>californica</i>	California Milkweed	AH	Asclepiadaceae	1994	Observed by D. Magney
<i>Asclepias eriocarpa</i>	Indian Milkweed	PH	Asclepiadaceae	1994	Observed by D. Magney
<i>Astragalus filipes</i> +	Thread-leaved Locoweed	PH	Fabaceae	6-Jul-1946	<i>M. Ownbey &amp; G.B. Ownbey</i> 2986 UC
<i>Astragalus lentiginosus</i> var. <i>idriensis</i>	Spotted Locoweed	PH	Fabaceae	3-Jun-1933	<i>Carl Epling &amp; Louis Wheeler</i> 1818 UC
<i>Astragalus lentiginosus</i> var. <i>sierrae</i> +	Bear Valley Milkvetch	PH	Fabaceae	3-Jun-1933	<i>Carl Epling &amp; Louis Wheeler</i> 1818 UC
<b><i>Astragalus leucolobus</i>+</b>	<b>Big Bear Valley Woollypod</b>	<b>PH</b>	<b>Fabaceae</b>		<b>Expected (Possible)</b>
<i>Astragalus purshii</i> var. <i>tinctus</i>	Pursh Woolly Pod	PH	Fabaceae	28-Apr-1934; 3-Jun-1933	<i>A.E. Wieslander</i> 472 UC; <i>Carl Epling &amp; Louis Wheeler</i> 1767 UC
<i>Balsamorhiza deltoidea</i>	Balsam Root, Chuchupate	PH	Asteraceae	3-Jun-1933	<i>Carl Epling &amp; Louis Wheeler</i> 1792 UC
<i>Bromus carinatus</i> var. <i>carinatus</i>	California Brome	PG	Poaceae	2001	<i>D.L. Magney</i> 183-01 UCSB
<i>Bromus tectorum</i> var. <i>tectorum</i> *	Cheat Grass	AG	Poaceae	1994	Observed by D. Magney
<i>Calochortus invenustus</i>	Plain Mariposa Lily	PG	Liliaceae		<i>Davidson</i> 2825 RSA
<i>Calochortus kennedyi</i> var. <i>kennedyi</i>	Red Mariposa Lily	PG	Liliaceae	7-Jun-1926	<i>M.E. Jones sn</i> 7-Jun-1926 RSA
<i>Calyptidium monandrum</i>	Common Calyptidium	AH	Portulacaceae	4-Jun-1933	<i>Carl Epling &amp; Louis Wheeler</i> 1847 UC
<i>Calyptidium parryi</i> var. <i>parryi</i>	Parry Pussypaws	AH	Portulacaceae	2001	<i>D.L. Magney</i> 182-01 UCSB
<i>Calyptidium umbellatum</i>	Pussy Paws	AH	Portulacaceae	1994	Observed by D. Magney

<sup>1</sup> CNPS = California Native Plant Society.

+ = Special-status plant species (predominantly Ventura County Locally Rare [Magney 2004]) reported or expected onsite.

**Bold** = CNDDDB-tracked (CDFG 2004) special-status plant species (see Table 3 below for species status) that have been reported onsite or that are expected onsite based on suitable habitat present onsite.

\* = Introduced/nonnative plant species. Scientific names follow Hickman (1993).

<sup>2</sup> Habit definitions: AG=annual grass; AH=annual herb; BH=biennial herb; PG=perennial grass; PH=perennial herb; S=shrub; T=tree.

<sup>3</sup> The likelihood of occurrence (low, possible, high, known onsite) is based on the presence of a species' required habitat, known or reported occurrences of the species, direct observation, and best professional judgment.

# California Environmental Quality Act Environmental Checklist Form

## Biological Resources - County of Ventura, Planning Division

Page 3



Botanical Name <sup>1</sup>	Common Name	Habit <sup>2</sup>	Family	Date Observed	Evidence and Likelihood of Occurrence if a CNDDDB-Tracked Species <sup>3</sup>
<i>Calystegia malacophylla</i> ssp. <i>pedicellata</i>	Sierra Morning-glory	PV	Convolvulaceae		Christopher Davidson 2821 RSA
<i>Carex alma</i> +	Sturdy Sedge	PG	Cyperaceae		Reported
<i>Castilleja applegatei</i> ssp. <i>martinii</i>	Martin Indian Paintbrush	PH	Orobanchaceae	10-Jun-1964	E.C. Twisselmann 9608 JEPS
<i>Castilleja subinclusa</i> ssp. <i>subinclusa</i>	Long-leaved Indian Paintbrush	PH	Orobanchaceae		P.D. Hurd Jr. 107 JEPS
<i>Caulanthus amplexicaulis</i>	Clasping-leaved Jewelflower	AH	Brassicaceae	1-Jun-1905	H. M. Hall 6442 UC/JEPS
<b><i>Caulanthus coulteri</i> var. <i>lemmonii</i>+</b>	<b>Lemmon's Jewelflower</b>	<b>AH</b>	<b>Brassicaceae</b>		<b>Expected (High)</b>
<i>Ceanothus cordulatus</i>	Mountain Whitethorn	S	Rhamnaceae	17-Jun-1896; 18-Apr-1935	W.R. Dudley & F.H. Lamb 4565 UC; G.T. Nordstrom 471 UC
<i>Ceanothus greggii</i> ssp. <i>vestitus</i>	Mojave Ceanothus	S	Rhamnaceae	4-Apr-1935; 2001	G.T. Nordstrom 439 UC; D.L. Magney 176-01 UCSB
<i>Ceanothus integerrimus</i>	Deer Brush	S	Rhamnaceae	1994	Observed by D. Magney
<i>Ceanothus palmeri</i>	Palmer Ceanothus	S	Rhamnaceae	12-Apr-1935	G.T. Nordstrom 454 UC
<i>Cercocarpus betuloides</i> var. <i>betuloides</i>	Birchleaf Mountain Mahogany	S	Rosaceae	1896; 2001	W.R. Dudley 4528 UC; D.L. Magney 175-01 UCSB
<i>Chaenactis glabriuscula</i> var. <i>glabriuscula</i>	Common Yellow Pincushion	AH	Asteraceae	3-Jun-1963	E.C. Twisselmann 8362 JEPS
<i>Chaenactis santolinoides</i>	Perennial Pincushion	PH	Asteraceae	1994	Observed by D. Magney
<i>Chamaesyce albomarginata</i>	Rattlesnake Spurge	AH	Euphorbiaceae	1994	Observed by D. Magney
<i>Chorizanthe watsonii</i>	Watson Spineflower	AH	Polygonaceae	2001	D.L. Magney 191-01 UCSB
<i>Chrysothamnus nauseosus</i> ssp. <i>consimilis</i>	Common Rubber Rabbitbrush	S	Asteraceae	2001	D.L. Magney 180-01 UCSB
<i>Chrysothamnus parryi</i> ssp. <i>asper</i> +	Parry Rabbitbrush	S	Asteraceae	ca. 1984	R.A. Burgess & D.L. Magney 103, 120 UCSB
<i>Cirsium occidentale</i> var. <i>californicum</i>	California Thistle	BH	Asteraceae	1-Jul-1905	H.M. Hall 6600 UC
<i>Clarkia xantiana</i> ssp. <i>xantiana</i> +	Xantus Clarkia	AH	Onagraceae	1-Jul-1905	H.M. Hall 6599 UC
<i>Claytonia parviflora</i> ssp. <i>parviflora</i>	Small-flowered Miner's Lettuce	AH	Portulacaceae	15-Jun-1896	W.R. Dudley & F.H. Lamb 4540 UC
<i>Claytonia rubra</i> ssp. <i>rubra</i>	Red Miner's Lettuce	AH	Portulacaceae	3-Jun-1933	Carl Epling & Louis Wheeler 1783 UC
<i>Corethrogyne filaginifolia</i> var. <i>filaginifolia</i>	Cud-weed Aster	PH	Asteraceae	1994	Observed by D. Magney
<i>Crepis acuminata</i> +	Long-leaved Hawksbeard	PH	Asteraceae	1-Jul-1905	H.M. Hall 6596 UC
<i>Crepis occidentalis</i> ssp. <i>occidentalis</i>	Western Hawksbeard	PH	Asteraceae	1-Jul-1902; 1905	A.D.E. Elmer 3892; H.M. Hall 6575 UC
<i>Cryptantha circumsissima</i>	Greenocharis Forget-Me-Not	AH	Boraginaceae	2001	D.L. Magney 189-01 UCSB
<i>Cryptantha mohavensis</i> +	Mojave Forget-Me-Not	AH	Boraginaceae	2001	D.L. Magney 190-01 UCSB
<i>Cystopteris fragilis</i> +	Brittle Fern	PF	Pteridaceae	1896	W.R. Dudley & F.H. Lamb 4547 POM
<i>Delphinium parishii</i> ssp. <i>pallidum</i>	Pale-flowered Larkspur	PH	Ranunculaceae	1994	D.L. Magney FM-45-94 UCSB
<i>Descurainia pinnata</i> ssp. <i>halicorum</i> +	Western Tansy Mustard	AH	Brassicaceae	2001	D.L. Magney 188-01 UCSB
<i>Eleocharis macrostachya</i>	Common Spike-rush	PG	Cyperaceae	1994	Observed by D. Magney
<i>Elymus elymoides</i> ssp. <i>elymoides</i>	Bottlebrush Squirreltail	PG	Poaceae	2001	D.L. Magney 184-01 UCSB
<i>Ephedra viridis</i> var. <i>viridis</i>	Green Mormon-tea	S	Ephedraceae	1994	Observed by D. Magney
<i>Epilobium canum</i> ssp. <i>canum</i>	California Fuchsia	PH	Onagraceae	1994	Observed by D. Magney
<i>Epilobium densiflorum</i> +	Dense-flowered Spike-primrose	AH	Onagraceae		H.M. Hall 6617 UC
<i>Equisetum laevigatum</i>	Smooth Scouring-Rush	PF	Equisetaceae	1994	Observed by D. Magney
<i>Eriastrum densifolium</i> ssp. <i>austromontanum</i>	Mountain Woolly Star	PH	Polemoniaceae	1994	D.L. Magney FM-46-94 UCSB
<i>Eriastrum densifolium</i> ssp. <i>elongatum</i> +	Elongate Woolly Star	AH	Polemoniaceae	2-Nov-1905	R.S. Baldwin sn 2-Nov-1905 UCSB
<i>Eriastrum filifolium</i> +	Narrowleaf Woolly Star	AH	Polemoniaceae	1994	D.L. Magney FM-37-94 UCSB
<i>Eriastrum sparsiflorum</i>	Few-flowered Woolly Star	AH	Polemoniaceae	2001	D.L. Magney 187-01 UCSB
<i>Ericameria linearifolia</i>	Interior Goldenbush	S	Asteraceae	2001	D.L. Magney 181-01 UCSB

# California Environmental Quality Act Environmental Checklist Form Biological Resources - County of Ventura, Planning Division

Page 4



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<i>Erigeron foliosus</i> var. <i>foliosus</i>	Slender Fleabane	PH	Asteraceae	6-Jul-1970	J.L. Strother 990 UC
<i>Eriodictyon crassifolium</i> var. <i>nigrescens</i>	Thickleaf Yerba Santa	S	Hydrophyllaceae	17-Jun-1954	Richard M. Straw 637 UC/JEPS
<i>Eriogonum baileyi</i> var. <i>baileyi</i>	Bailey Buckwheat	AH	Polygonaceae	6-Oct-1931	M.E. Jones sn 6-Oct-1931 RSA
<i>Eriogonum cithariforme</i>	Cithara Buckwheat	AH	Polygonaceae	1994	D.L. Magney FM-42-94 UCSB
<i>Eriogonum fasciculatum</i> ssp. <i>polifolium</i>	Hoary California Buckwheat	S	Polygonaceae		E.C. Twisselmann 2397 RSA
<i>Eriogonum gracile</i> var. <i>gracile</i>	Slender Woolly Buckwheat	AH	Polygonaceae	13-Apr-1935	G.T. Nordstrom 453 UC
<i>Eriogonum kennedyi</i> var. <i>kennedyi</i>	Kennedy Buckwheat	S	Polygonaceae	12-Apr-1935	R. Hoffmann sn Oct-1931 SBM;   G.T. Nordstrom 419 UC
<i>Eriogonum nudum</i> var. <i>pauciflorum</i>	Tibinagua	PH	Polygonaceae	1994; 2001	D.L. Magney FM-41-94; 186-01 UCSB
<i>Eriogonum umbellatum</i> var. <i>munzii</i>	Munz Yellow Buckwheat	S	Polygonaceae	1-Jul-1905; 23-Jun-1935	H.M. Hall 6601 UC; A. Simontacchi 141 UC
<i>Eriogonum wrightii</i> var. <i>subscaposum</i>	Short-scape Wright's Buckwheat	S	Polygonaceae	1994	D.L. Magney FM-31-94 UCSB
<i>Eriophyllum confertiflorum</i> var. <i>confertiflorum</i>	Golden Yarrow	PH	Asteraceae	1994	Observed by D. Magney
<b><i>Eriophyllum lanatum</i> var. <i>hallii</i> +</b>	<b>Fort Tejon Woolly Sunflower</b>	<b>AH</b>	<b>Asteraceae</b>		<b>Expected (High)</b>
<b><i>Erodium macrophyllum</i>+</b>	<b>Round-leaved Filaree</b>	<b>AH</b>	<b>Geraniaceae</b>		<b>Expected (Possible)</b>
<i>Erysimum capitatum</i>	Western Wallflower	AH	Brassicaceae	1994	Observed by D. Magney
<b><i>Eschscholzia lemmonii</i> ssp. <i>kernensis</i>+</b>	<b>Tejon Poppy</b>	<b>AH</b>	<b>Papaveraceae</b>		<b>Expected (Possible)</b>
<i>Euthamia occidentalis</i>	Western Goldenrod	PH	Asteraceae	1994	Observed by D. Magney
<i>Fremontodendron californicum</i> ssp. <i>californicum</i>	California Flannel Bush	S	Sterculiaceae	1994	Observed by D. Magney
<i>Galium andrewsii</i> ssp. <i>intermedium</i>	Pine Mat	PH	Rubiaceae		Reported
<i>Galium angustifolium</i> ssp. <i>angustifolium</i>	Chaparral Bedstraw	S	Rubiaceae	1994	Observed by D. Magney
<i>Galium aparine</i>	Goose Grass	AH	Rubiaceae	3-Jun-1933	Carl Epling & Louis Wheeler 1786 UC
<i>Galium bifolium</i> +	Low Mountain Bedstraw	AH	Rubiaceae	3-Jun-1933	Carl Epling & Louis Wheeler 1785 UC
<i>Geranium viscosissimum</i> +	Sticky Cranesbill	AH	Geraniaceae	15-Jun-1896; 10-Jul-1905	W.R. Dudley & F.H. Lamb 4536 UC; H.M. Hall 6602 UC
<i>Gilia brecciarum</i> ssp. <i>brecciarum</i> +	Breccia Gilia	AH	Polemoniaceae	25-May-1928	R. Hoffmann sn 25-May-1928 JEPS
<i>Gilia ochroleuca</i> ssp. <i>bizonata</i>	Desert Gilia	AH	Polemoniaceae	25-May-1928	R. Hoffmann sn 25-May-1928 UC
<i>Hemizonella minima</i>	Hemizonella	AH	Asteraceae	2-Jun-1933	Carl Epling & Louis Wheeler 1771 UC
<i>Hesperoyucca whipplei</i> ssp. <i>cespitosa</i>	Clumping Our Lord's Candle	S	Agavaceae	1994	Observed by D. Magney
<i>Horkelia rydbergii</i>	Rydberg Horkelia	PH	Rosaceae	1-Jul-1905	H.M. Hall 6610 UC
<i>Hulsea vestita</i> ssp. <i>gabrielensis</i> +	San Gabriel Hulsea	PH	Asteraceae	1-Jul-1905	H.M. Hall 6598 UC
<i>Ivesia saxosa</i> +	Five-finger Silverweed	PH	Rosaceae		J.R. Hodgson 88 UCSB
<i>Juncus balticus</i> ssp. <i>mexicanus</i>	Mexican Rush	PH	Juncaceae	1994	Observed by D. Magney
<i>Lagophylla ramosissima</i> ssp. <i>ramosissima</i>	Branched Lagophylla	AH	Asteraceae	1994	Observed by D. Magney
<i>Lessingia glandulifera</i> var. <i>glandulifera</i> [L. <i>lemmonii</i> var. <i>l.</i> ]	Lemmon's Lessingia	AH	Asteraceae	22-Aug-1960, 23-Jun-1962	Willard Spence 576, 678 UC
<i>Lessingia tenuis</i> +(CNPS List 4)	Spring Lessingia	AH	Asteraceae	9-Jul-1890	Frederick V. Coville & Frederick Funston 1199 UC
<i>Leymus condensatus</i>	Giant Wildrye	PG	Poaceae	1994	Observed by D. Magney
<i>Leymus triticoides</i>	Creeping Wildrye	PG	Poaceae	1994	Observed by D. Magney
<i>Lithophragma bolanderi</i> +	Bolander Star	PH	Saxifragaceae	17-Jun-1896	W.R. Dudley & F.H. Lamb 4573 UC
<i>Lomatium californicum</i> +	California Lomatium	PH	Apiaceae	10-Jul-1905	H.M. Hall 6612 UC
<i>Lomatium macrocarpum</i> +	Large-fruited Lomatium	PH	Apiaceae		D.H. Wilken 7795 UCSB
<i>Lomatium utriculatum</i>	Foothill Lomatium	PH	Apiaceae	29-Apr-1989	Roy E. Buck and Rexford Palmer 1241
<i>Lotus procumbens</i> var. <i>procumbens</i>	Silky California Broom	PH	Fabaceae	10-Jul-1905	H.M. Hall 6603 UC
<i>Lupinus albifrons</i>	Silver Bush Lupine	S	Fabaceae	8-Jan-1935	W. A. Peterson 4
<i>Lupinus andersonii</i> +	Anderson Lupine	PH	Fabaceae	1994	D.H. Wilken 7829 UCSB; D.L. Magney FM-33-94 UCSB



**California Environmental Quality Act Environmental Checklist Form  
Biological Resources - County of Ventura, Planning Division**

Page 5



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<i>Lupinus breweri</i> var. <i>breweri</i> +	Brewer's Lupine	PH	Fabaceae	1994	D.L. Magney FM-34-94 UCSB
<i>Lupinus elatus</i>	Johnston Silky Lupine	PH	Fabaceae	10-Jun-1964	E.C. Twisselmann 9609 SBBG
<i>Lupinus excubitus</i> var. <i>austromontanus</i>	Southern Mountain Bush Lupine	S	Fabaceae	29-Apr-1989	Roy E. Buck, Rexford Palmer 1239 UC
<i>Lupinus luteolus</i>	Butter Lupine	AH	Fabaceae	21-Jul-1963	B.C. Miller sn 21-Jul-1963 UCSB
<i>Machaeranthera canescens</i> var. <i>canescens</i>	Hoary Aster	BH	Asteraceae	10-Jul-1905	H.M. Hall 6597 UC
<i>Madia elegans</i> ssp. <i>elegans</i>	Common Tarplant	AH	Asteraceae	10-Jun-1964	E.C. Twisselmann 9606 JEPS
<i>Malacothamnus fasciculatus</i> var. <i>fasciculatus</i>	Chaparral Bushmallow	S	Malvaceae	1-Jul-1902; 17-Jun-1954	A.D.E. Elmer 3895 UC; Richard M. Straw 636
<i>Malacothamnus fremontii</i> +	Fremont Bushmallow	S	Malvaceae		A.D.E. Elmer 895 RSA
<i>Malacothamnus marruboides</i> +	Pink-flowered Bushmallow	S	Malvaceae	1994	D.L. Magney FM-38-94 UCSB
<i>Melica stricta</i>	Nodding Melic Grass	PG	Poaceae	3-Jun-1933	C. Epling & L. Wheeler 1795 UC
<i>Mentzelia albicaulis</i>	Whitestem Stickleaf	AH	Loasaceae	2001	D.L. Magney 179-01 UCSB
<i>Mentzelia congesta</i> var. <i>congesta</i>	Congested Stickleaf	AH	Loasaceae		Ramsey & Ramsey 530 RSA
<i>Mentzelia dispersa</i>	Scattered Stickleaf	AH	Loasaceae	17-Jun-1896	W.R. Dudley, F.H. Lamb 4570 RSA
<i>Mentzelia montana</i> ssp. <i>montana</i>	Mountain Stickleaf	AH	Loasaceae	3-Jun-1933	Carl Epling & Louis Wheeler 1824 RSA
<i>Mimulus bigelovii</i> var. <i>bigelovii</i> +	Bigelow Monkeyflower	AH	Phrymaceae	2001	D.L. Magney 185-01 UCSB
<i>Mimulus constrictus</i> +	Narrow-throated Monkeyflower	AH	Phrymaceae	2-Jun-1933	Carl Epling & Louis Wheeler 1773 UC
<b><i>Mimulus evanescens</i>+</b>	<b>Ephemeral Monkeyflower</b>	<b>AH</b>	<b>Phrymaceae</b>		<b>Expected (Low)</b>
<i>Mimulus guttatus</i>	Common Streamside Monkeyflower	A/PH	Phrymaceae	16-Jul-1961	D.E. Breedlove 722 UC
<i>Mimulus johnstonii</i> +	Johnston Monkeyflower	AH	Phrymaceae	1994	Observed by D. Magney
<i>Monardella breweri</i> +	Brewer Coyote Mint	AH	Lamiaceae		Hodgson 179 UCSB
<i>Monardella lanceolata</i>	Mustang Mint	AH	Lamiaceae	1994	D.L. Magney FM-36-94 UCSB
<b><i>Monardella linioides</i> ssp. <i>oblonga</i>+</b>	<b>Flax-leaved Horsemint</b>	<b>PH</b>	<b>Lamiaceae</b>	<b>1994</b>	<b>D.L. Magney &amp; J. Bowland LDV-58-94 UCSB (Known onsite)</b>
<i>Navarretia peninsularis</i> +	Southern California Navarretia	AH	Polemoniaceae	1-Jun-1905	H.M. Hall 6615 UC
<i>Nemacladus sigmoideus</i> +	Thread Stem	AH	Lobeliaceae		Reported
<i>Nemophila pedunculata</i>	Little-foot Baby Blue-eyes	AH	Boraginaceae	1-Jul-1905; 3-Jun-1933	H.M. Hall 6605 UC; Carl Epling & Louis Wheeler 1784 UC
<i>Nicotiana attenuata</i>	Coyote Tobacco	AH	Solanaceae		P.V. Wells 87 UC
<i>Oenothera californica</i> ssp. <i>californica</i>	California Evening-primrose	PH	Onagraceae	27-May-1928	C.L. Hitchcock 113 UC
<i>Orobanche fasciculata</i> +	Clustered Broomrape	PH	Orobanchaceae	1994	D.L. Magney FM-43-94 UCSB
<i>Pectocarya setosa</i>	Setose Pectocarya	AH	Boraginaceae	2001	D.L. Magney 192-01 UCSB
<i>Pedicularis semibarbata</i>	Pine-woods Lousewort	PH	Orobanchaceae	3-Jun-1933	Carl Epling & Louis Wheeler 1782 UC
<i>Pellaea mucronata</i> var. <i>californica</i> +	California Birdsfoot Cliffbrake	PF	Pteridaceae		R.D. Harwood 188 POM
<i>Penstemon grinnellii</i> var. <i>scrophularioides</i>	Figwort Beardtongue	PH	Veronicaceae	19-Jun-1935	H.E. McMinn 3908 UC
<i>Penstemon laetus</i> var. <i>laetus</i> +	Gay Penstemon	PH	Veronicaceae	1-Jul-1905	H.M. Hall 6609 UC
<i>Penstemon rostriflorus</i> +	Bridges Penstemon	PH	Veronicaceae	1-Jul-1902	A.D.E. Elmer 3747 UC
<i>Penstemon speciosus</i> +	Showy Beardtongue	PH	Veronicaceae	17-Jun-1896	W.R. Dudley & F.H. Lamb 4572 UC
<i>Perideridia pringlei</i>	Adobe Yampah	PH	Apiaceae		D.H. Wilken 7800 UCSB
<i>Phacelia congdonii</i>	Congdon Phacelia	AH	Boraginaceae	1994	Observed by D. Magney
<i>Phacelia curvipes</i> var. <i>curvipes</i> +	Washoe Phacelia	AH	Boraginaceae		D. Wilken 7825 UCSB
<i>Phacelia davidsonii</i>	Davidson Phacelia	AH	Boraginaceae	17-Jun-1896; 4-Jun-1933	W.R. Dudley & F.H. Lamb 4571 UC; Carl Epling & Louis Wheeler 1827 UC
<i>Phacelia fremontii</i>	Fremont Phacelia	AH	Boraginaceae	4-Apr-1935	G.T. Nordstrom 433 UC
<i>Phacelia ramosissima</i> var. <i>latifolia</i>	Branching Phacelia	PH	Boraginaceae	1-Jul-1905	H.M. Hall 6604 UC
<i>Phlox diffusa</i> +	Mat Phlox	PH	Polemoniaceae	17-Jun-1896	W.R. Dudley & F.H. Lamb 4562 UC
<i>Phlox gracilis</i>	Slender Phlox	AH	Polemoniaceae	3-Jun-1933	C. Epling & L. Wheeler 1778 UC; D. Wilken 7822 UCSB

**California Environmental Quality Act Environmental Checklist Form  
Biological Resources - County of Ventura, Planning Division**

Page 6



Botanical Name <sup>1</sup>	Common Name	Habit <sup>2</sup>	Family	Date Observed	Evidence and Likelihood of Occurrence if a CNDDDB-Tracked Species <sup>3</sup>
<i>Phlox hoodii</i> ssp. <i>canescens</i> +	Fuzzy Hood Phlox	PH	Polemoniaceae		<i>D. Wilken</i> 7832 UCSB
<i>Phoradendron libocedri</i>	Incense-cedar Mistletoe	PH	Viscaceae		Expected
<i>Pinus jeffreyi</i>	Jeffrey Pine	T	Pinaceae	15-Jun-1896	<i>W.R. Dudley &amp; F.H. Lamb</i> 4544 DS
<i>Pinus lambertiana</i>	Sugar Pine	T	Pinaceae	13-Apr-1935	<i>G.T. Nordstrom</i> 457 UC
<i>Pinus monophylla</i>	Singleleaf Pinyon Pine	T	Pinaceae	1896	<i>E.C. Twisselmann</i> 9597 CAS; <i>W.R. Dudley &amp; F.H. Lamb</i> 4578 UC
<i>Pinus ponderosa</i> var. <i>ponderosa</i>	Pacific Ponderosa Pine	T	Pinaceae		Reported
<i>Plagiobothrys hispidulus</i> +	Hispid Popcornflower	AH	Boraginaceae	3-Jun-1933	<i>C. Epling &amp; L. Wheeler</i> 1812 UC
<i>Poa secunda</i> ssp. <i>secunda</i>	One-sided Bluegrass	PG	Poaceae	3-Jun-1933	<i>C. Epling &amp; L. Wheeler</i> 1821 UC
<i>Potentilla gracilis</i> var. <i>elmeri</i> +	Elmer Slender Cinquifol	PH	Rosaceae	1-Jul-1905	<i>H.M. Hall</i> 6613 UC
<i>Prunus emarginata</i> +	Bitter Cherry	S	Rosaceae	18-Apr-1935	<i>G.T. Nordstrom</i> 472 UC
<i>Prunus virginiana</i> var. <i>demissa</i>	Western Choke Cherry	S	Rosaceae	15-Jun-1896	<i>W.R. Dudley, F.H. Lamb</i> 4532 UC
<i>Psuedognaphalium stramineum</i> +	Western Everlasting	A/BH	Asteraceae	1994	Observed by D. Magney
<i>Pseudostellaria jamesiana</i> +	False Chickweed	AH	Caryophyllaceae	1-Jul-1905	<i>H.M. Hall</i> 6606 UC
<i>Quercus chrysolepis</i>	Canyon Live Oak	T	Fagaceae	15-Jun-1896	<i>W.R. Dudley &amp; F.H. Lamb</i> 4541 DS
<i>Quercus john-tuckeri</i>	Tucker Oak	S	Fagaceae	2001	<i>D.L. Magney</i> 174-01 UCSB
<i>Quercus kelloggii</i>	Black Oak	T	Fagaceae	16-Jun-1896	<i>W.R. Dudley &amp; F.H. Lamb</i> 4568 UC
<i>Ranunculus cymbalaria</i>	Desert Buttercup	PH	Ranunculaceae		Reported
<i>Rhamnus californica</i> ssp. <i>californica</i>	California Coffeeberry	S	Rhamnaceae	1994	<i>D.L. Magney</i> FM-44-94 UCSB
<i>Ribes nevadense</i> +	Sierra Currant	S	Grossulariaceae	4-Jun-1933	<i>Carl Epling &amp; Louis Wheeler</i> 1830 UC
<i>Ribes quercetorum</i> +	Oak Gooseberry	S	Grossulariaceae		<i>J. Keefe</i> 1523 UCSB
<i>Ribes roezli</i> var. <i>roezli</i> +	Sierra Gooseberry	S	Grossulariaceae	3-Jun-1933	<i>Carl Epling &amp; Louis Wheeler</i> 1804 UC
<i>Ribes velutinum</i> +	Plateau Gooseberry	S	Grossulariaceae	8-Jan-1935	<i>W.A. Peterson</i> 6 UC
<i>Rigiopappus leptocladus</i> +	Rigiopappus	AH	Asteraceae	2-Jun-1933	<i>C. Epling &amp; L. Wheeler</i> 1772 UC
<i>Rumex salicifolius</i> var. <i>salicifolius</i>	Willow Dock	PH	Polygonaceae	1994	Observed by D. Magney
<i>Salix lasiolepis</i> var. <i>lasiolepis</i>	Arroyo Willow	T	Salicaceae		<i>Epling &amp; Wheeler</i> 1831 CAS
<i>Sambucus mexicana</i>	Blue Elderberry	S	Caprifoliaceae	1994	Observed by D. Magney
<i>Sanicula graveolens</i> +	Sanicle	PH	Apiaceae	10-Jul-1905	<i>H.M. Hall</i> 6611 UC
<i>Sarcodes sanguinea</i> +	Snow Plant	PH	Monotropaceae	Jun-1958	<i>C. Brant sn Jun-1958</i> UCSB
<i>Scutellaria siphocampyloides</i>	Skullcap	PH	Lamiaceae	9-Jul-1891; 17-Jun-1896	<i>F.V. Coville &amp; F. Funston</i> 1197 UC; <i>W.R. Dudley &amp; F.H. Lamb</i> 4576 UC
<i>Senecio</i> [Packer] <i>breweri</i> +	Brewer Butterweed	PH	Asteraceae	29-Apr-1989	<i>Roy E. Buck, Rexford Palmer</i> 1240 JEPS
<i>Senecio flaccidus</i> var. <i>douglasii</i>	Shrubby Butterweed	S	Asteraceae	1905	<i>R.S. Baldwin</i> 105 UC
<i>Sidalcea malviflora</i> ssp. <i>sparsifolia</i>	Few-leaved Globemallow	S	Malvaceae		<i>Davidson</i> 2824 RSA
<b><i>Sidalcea neomexicana</i>+</b>	<b>Salt Spring Checkerbloom</b>	<b>PH</b>	<b>Malvaceae</b>		<b>Expected (Low)</b>
<i>Silene verecunda</i> ssp. <i>platyota</i>	Cuyamaca Champion	PH	Caryophyllaceae	19-May-1934	<i>C. Epling sn 19-May-1934</i> RSA
<i>Solanum xanti</i> var. <i>xanti</i>	Chaparral Nightshade	S	Solanaceae	2001	<i>D.L. Magney</i> 178-01 UCSB
<i>Swertia neglecta</i> + (CNPS List 4)	Pine Green Gentian	PH	Gentianaceae	1994	Observed by D. Magney
<i>Symphoricarpos rotundifolius</i> var. <i>parishii</i>	Parish Snowberry	S	Caprifoliaceae	12-Apr-1935	<i>G.T. Nordstrom</i> 420 UC
<i>Tetradymia canescens</i> +	Cottonthorn	S	Asteraceae	15-Sep-1955	<i>E.C. Twisselmann</i> 2391 JEPS
<i>Thalictrum fendleri</i>	Fendler Meadow-rue	PH	Ranunculaceae	1-Jul-1902	<i>A.D.E. Elmer</i> 3910 UC
<b><i>Trifolium gymnocarpon</i> var. <i>plummerae</i>+</b>	<b>Plummer's Clover</b>	<b>AH</b>	<b>Fabaceae</b>		<b>Expected (Possible)</b>
<i>Trifolium variegatum</i> [var. <i>melananthum</i> ]+	Whitetip Clover	AH	Fabaceae	10-Jul-1905	<i>H.M. Hall</i> 6616 UC
<i>Viola purpurea</i> ssp. <i>mohavensis</i> +	Mojave Yellow violet	PH	Violaceae		<i>S. Van Zandt</i> 6 UCSB
<i>Viola purpurea</i> ssp. <i>quercetorum</i> +	Oak Violet	PH	Violaceae		<i>D.H. Wilkin</i> 7809 UCSB

The project site vegetation is comprised of two predominant **habitat types**, including Mixed Coniferous Forest and Cushion Buckwheat Scrub. These habitat types were determined to be onsite based on aerial photographic interpretation and observations by DMEC during past field surveys in the vicinity of the project site.

Mixed Coniferous Forest, or **Mixed Conifer Series** (Sawyer and Keeler-Wolf 1995) is a woodland/forest plant community in which three or more coniferous trees are important canopy contributors. The Mixed Conifer Series inhabiting Frazier Mountain is predominated by *Abies concolor* (White Fir), *Pinus jeffreyi* (Jeffrey Pine), and *Pinus lambertiana* (Sugar Pine). Other important tree species of this series include *Calocedrus decurrens* (Incense Cedar), *Pinus monophylla* (Singleleaf Pinyon Pine), *Pinus ponderosa* (Ponderosa Pine), *Quercus kelloggii* (Black Oak), and *Quercus chrysolepis* (Canyon Live Oak). These tree species form an intermittent canopy less than 230 feet (70 m) tall over an emergent shrub layer and a variable groundlayer. Mixed Conifer Series requires shallow, well-drained soils and exists at elevations between 2,950 feet (900 m) and 7,220 feet (2,200 m).

Important associate shrub species include: *Lupinus* spp. (bush lupines), *Artemisia tridentata* (Great Basin Sagebrush), *Ceanothus cordulatus* (Mountain Whitethorn), *Ceanothus greggii* ssp. *vestitus* (Desert Ceanothus), *Cercocarpus betuloides* var. *betuloides* (Birchleaf Mountain Mahogany), *Chrysothamnus nauseosus* ssp. *consimilis* (Common Rubber Rabbitbrush), *Ericameria linearifolia* (Narrowleaf Goldenbush), *Prunus virginiana* var. *demissa* (Western Choke Cherry), *Purshia tridentata* var. *glandulosa* (Antelope Bush), *Quercus john-tuckeri* (Tucker Oak), *Ribes* spp. (gooseberries/currants), *Senecio flaccidus* var. *douglasii* (Shrubby Butterweed), and *Symphoricarpos rotundifolius* var. *parishii* (Parish Snowberry).

The groundlayer includes native grasses such as *Achnatherum hymenoides* (Indian Ricegrass), *A. speciosum* (Desert Needlegrass), *Elymus elymoides* ssp. *elymoides* (Bottlebrush Squirreltail), *Leymus triticoides* (Creeping Wildrye), and *Melica stricta* (Nodding Melic Grass). Predominant herbs contributing to the ground cover of Mixed Conifer Series include many of those listed in Table 1, such as: *Astragalus* spp. (locoweeds/milkvetches), *Corethrogyne filaginifolia* var. *filaginifolia* (California Cudweed-aster), *Epilobium canum* ssp. *canum* (California Fuchsia), *Erigeron foliosus* var. *foliosus* (Slender Fleabane), *Eriogonum* spp. (buckwheats), *Eriophyllum confertiflorum* var. *confertiflorum* (Golden Yarrow), *Lomatium californicum* (California Lomatium), *Lupinus* spp. (lupines), and *Penstemon grinnellii* var. *scrophularioides* (Figwort Beardtongue).

**Cushion Buckwheat Series** is dominated by *Eriogonum kennedyi* (Kennedy Buckwheat) and/or *Eriogonum wrightii* ssp. *subcaposum* (Short-scape Wright Buckwheat). These buckwheat species are low-growing shrubs, forming a low, dense, matted scrub layer, which represents a relatively rare plant community. Cushion Buckwheat Scrub occurs on gravelly sandy loam soils resembling the Pebble Plains of the San Bernardino Mountains in the Big Bear area. The buckwheat plants that dominate this plant community are likely quite old, some possibly over 100 years old, growing very slowly. Cushion Buckwheat Series occurs in the northern portion of Ventura County scattered sparingly from the Cuyama Badlands, Mount Piños-Sawmill Mountain, Lockwood Valley, Frazier Mountain, San Guillermo Mountain, and the upper Piru Creek drainage. The important associate shrub species to Cushion Buckwheat Scrub include *Ephedra viridis* var. *viridis* (Green Mormon-tea) and *Eriogonum umbellatum* var. *munzii* (Munz Yellow Buckwheat).

The ground layer contributors include *Bromus tectorum* var. *tectorum* (Cheat Grass), *Calochortus kennedyi* var. *kennedyi* (Red Mariposa Lily), *Calyptridium* spp. (Pussy Paws), *Calystegia malacophylla* ssp. *pedicellata* (Sierra Morning-glory), *Castilleja subinclusa* ssp. *subinclusa* (Long-leaved Indian Paintbrush), *Chaenactis santolinoides* (Perennial Pincushion), *Chamaesyce albomarginata* (Rattlesnake Spurge), *Cirsium occidentale* var. *californicum* (California Thistle), *Corethrogyne filaginifolia* var. *filaginifolia*, *Cryptantha circumscissa* (Greenochaeris Forget-Me-Not), *Eriastrum densifolium* ssp. *austromontanum* (Mountain Woolly Star), *Eriogonum cithariforme* (Cithara Buckwheat), *Eriogonum gracile* var. *gracile* (Slender Woolly Buckwheat), *Galium andrewsii* ssp. *intermedium* (Pine Mat), *Gilia* spp. (gilias), *Lagophylla ramosissima* ssp. *ramosissima* (Branched Lagophylla), *Lessingia glandulifera*

var. *glandulifera* (Lemmon's Lessingia), *Lessingia tenuis* (Spring Lessingia), *Lotus procumbens* var. *procumbens* (Silky California Broom), *Lupinus andersonii* (Anderson Lupine), *Lupinus breweri* var. *breweri* (Brewer's Lupine), and *Mentzelia* spp. (stickleafs).

Several **wildlife species** are reported and expected to frequent and inhabit the vicinity of the project site, and they are listed below in Table 2, Wildlife of Frazier Mountain. Table 2 lists several birds that have been reported in the project site vicinity, while the reptile and mammal species listed below are expected based on required habitat present in the vicinity of the project site. Special-status wildlife species are discussed further below, and the result table of the CNDDDB search is provided following page 12.

**Table 2. Wildlife of Frazier Mountain**

Scientific Name <sup>4</sup>	Common Name	Evidence and Likelihood of Occurrence if a CNDDDB-Tracked Species <sup>5</sup>
<b>Reptiles</b>		
<i>Sceloporus occidentalis</i>	Western Fence Lizard	Expected
<i>Sceloporus graciosus</i>	Sagebrush Lizard	Expected
<i>Elgaria multicarinatus</i>	Southern Alligator Lizard	Expected
<i>Uta stansburiana elegans</i>	Side-blotched Lizard	Expected
<b><i>Phrynosoma coronatum (blainvillei)</i></b>	<b>Coast (San Diego) Horned Lizard</b>	<b>Expected (High)</b>
<i>Cnemidophorus tigris</i>	Western Whiptail	Expected
<i>Eumeces skiltonianus</i>	Western Skink	Expected
<b><i>Charina bottae umbratica</i></b>	<b>Southern Rubber Boa</b>	<b>Expected (Possible)</b>
<i>Pituophis melanoleucus</i>	Gopher Snake	Expected
<i>Lampropeltis getulus californiae</i>	California Kingsnake	Expected
<i>Crotalus viridis</i>	Western Rattlesnake	Expected
<b>Avifauna</b>		
<i>Cathartes aura</i>	Turkey Vulture	David Campbell 9 May 2004
<b><i>Gymnogyps californianus</i></b>	<b>California Condor</b>	<b>D. Campbell 9 May 2004 (Known onsite)</b>
<i>Elanus leucurus</i>	White-tailed Kite	D. Campbell 9 May 2004
<i>Circus cyaneus</i>	Northern Harrier (Marsh Hawk)	D. Campbell 9 May 2004
<i>Accipiter striatus</i>	Sharp-shinned Hawk	D. Campbell 9 May 2004
<i>Accipiter cooperii</i>	Cooper's Hawk	D. Campbell 9 May 2004
<i>Accipiter gentilis</i>	Northern Goshawk	John Tiffany 3 June 2003 (at~7000 ft. elev.)
<i>Buteo lineatus</i>	Red-shouldered Hawk	D. Campbell 9 May 2004
<i>Buteo swainsoni</i>	Swainson's Hawk	D. Campbell 9 May 2004
<i>Buteo jamaicensis</i>	Red-tailed Hawk	D. Campbell 9 May 2004
<i>Falco sparverius</i>	American Kestrel	D. Campbell 9 May 2004
<b><i>Falco mexicanus</i></b>	<b>Prairie Falcon</b>	<b>D. Campbell 9 May 2004 (Known onsite)</b>
<i>Oreortyx pictus</i>	Mountain Quail	D. Campbell 9 May 2004; David Pereksta 20 July 2002; J. Tiffany 3 June 2003
<i>Callipepla californica</i>	California Quail	D. Campbell 9 May 2004
<i>Callipepla gambelii</i>	Gambel's Quail	D. Campbell 9 May 2004
<i>Zenaidura macroura</i>	Mourning Dove	D. Campbell June 2002

<sup>4</sup> **Bold** = CNDDDB-tracked (CDFG 2004) special-status wildlife species (see Table 3 below for status).

<sup>5</sup> Bird reportings from the Ventura County Audubon Society (<http://groups.yahoo.com/group/venturacobirding/message/1181>).

Bird nomenclature follows National Geographic (2002). The likelihood of occurrence (low, possible, high, known onsite) is based on the presence of a species' required habitat, known or reported occurrences of the species, direct observation, and best professional judgment.



**California Environmental Quality Act Environmental Checklist Form**  
**Biological Resources - County of Ventura, Planning Division**

Page 9



Scientific Name <sup>4</sup>	Common Name	Evidence and Likelihood of Occurrence if a CNDDDB-Tracked Species <sup>5</sup>
<i>Athene cunicularia</i>	Burrowing Owl	Expected (Possible)
<i>Glaucidium gnoma</i>	Northern Pygmy Owl	Expected (rare)
<i>Picoides albolarvatus</i>	White-headed Woodpecker	D. Campbell 9 May 2004; D. Pereksta 20 July 2002
<i>Picoides</i> spp.	Woodpeckers	J. Tiffany 3 June 2003 (4 species)
<i>Contopus cooperi</i>	Olive-sided Flycatcher	D. Campbell 9 May 2004; J. Tiffany 3 June 2003
<i>Contopus sordidulus</i>	Western Wood-pewee	D. Campbell 9 May 2004
<i>Empidonax oberholseri</i>	Dusky Flycatcher	D. Pereksta 20 July 2002
<i>Nucifraga columbiana</i>	Clark's Nutcracker	D. Campbell 9 May 2004
<i>Tachycineta thalassina</i>	Violet-green Swallow	D. Campbell 9 May 2004; J. Tiffany 3 June 2003
<i>Poecile gambeli</i>	Mountain Chickadee	D. Campbell 9 May 2004
<i>Sitta pygmaea</i>	Pygmy Nuthatch	D. Campbell 9 May 2004
<i>Sialia mexicana</i>	Western Bluebird	D. Campbell 9 May 2004
<i>Sialia currucoides</i>	Mountain Bluebird	Expected
<i>Vermivora celata</i>	Orange-crowned Warbler	J. Tiffany 3 June 2003
<i>Dendroica petechia</i>	Yellow Warbler	J. Tiffany 3 June 2003
<i>Dendroica coronata</i>	Yellow-rumped Warbler	D. Campbell 9 May 2004
<i>Dendroica occidentalis</i>	Hermit Warbler	J. Tiffany 3 June 2003
<i>Oporornis tolmiei</i>	Mac Gillivray's Warbler	J. Tiffany 3 June 2003
<i>Pipilo chlorurus</i>	Green-tailed Towhee	J. Tiffany 3 June 2003
<i>Spizella passerina</i>	Chipping Sparrow	D. Campbell 9 May 2004
<i>Spizella atrogularis</i>	Black-chinned sparrow	D. Pereksta 20 July 2002; J. Tiffany 3 June 2003
<i>Amphispiza belli</i>	Sage Sparrow	D. Pereksta 20 July 2002; J. Tiffany 3 June 2003
<i>Pheucticus melanocephalus</i>	Black-headed Grosbeak	D. Campbell 9 May 2004
<i>Carpodacus purpureus</i>	Purple Finch	D. Pereksta 20 July 2002
<i>Carpodacus cassinii</i>	Cassin's Finch	D. Campbell 9 May 2004; D. Pereksta 20 July 2002; J. Tiffany 3 June 2003
<i>Loxia curvirostra</i>	Red Crossbill	J. Tiffany 3 June 2003; D. Pereksta 20 July 2002
<i>Carduelis lawrencei</i>	Lawrence's Goldfinch	J. Tiffany 3 June 2003
<i>Junco hyemalis</i>	Dark-eyed Junco	D. Campbell 9 May 2004
<i>Passerella iliaca</i>	Fox Sparrow	D. Campbell 9 May 2004; D. Pereksta 20 July 2002; J. Tiffany 3 June 2003
	Golden Hawk	D. Campbell 9 May 2004

**California Environmental Quality Act Environmental Checklist Form**  
**Biological Resources - County of Ventura, Planning Division**

Page 10



Scientific Name <sup>4</sup>	Common Name	Evidence and Likelihood of Occurrence if a CNDDDB-Tracked Species <sup>5</sup>
<b>Mammals</b>		
<i>Myotis lucifugus</i>	Little Brown Myotis	Expected
<i>Myotis lucifugus occultus</i>	Occult Little Brown Bat	Expected
<i>Myotis yumanensis</i>	Yuma Myotis	Expected
<i>Myotis velifer</i>	Cave Myotis	Expected
<i>Myotis evotis</i>	Long-eared Myotis	Expected
<i>Myotis thysanodes</i>	Fringed Myotis	Expected
<i>Myotis volans</i>	Long-legged Myotis	Expected
<i>Myotis californicus</i>	California Myotis	Expected
<i>Myotis leibii</i>	Small-footed Myotis	Expected
<i>Lasionycteris noctivagans</i>	Silver-haired Bat	Expected
<i>Pipistrellus hesperus</i>	Western Pipistrelle	Expected
<i>Eptesicus fuscus</i>	Big Brown Bat	Expected
<i>Lasiurus borealis</i>	Red Bat	Expected
<i>Lasiurus cinereus</i>	Hoary Bat	Expected
<i>Lasiurus ega</i>	Southern Yellow Bat	Expected
<i>Plecotus townsendii</i>	Townsend's Big-eared Bat	Expected
<i>Plecotus townsendii pallescens</i>	Pale Big-eared Bat	Expected
<i>Antrozous pallidus</i>	Pallid Bat	Expected
<i>Plecotus townsendii townsendii</i>	Townsend's Western Big-eared Bat	Expected
<i>Scapanus</i> sp.	Mole	Expected
<i>Mustela frenata</i>	Long-tailed Weasel	Expected
<i>Spermophilus beecheyi</i>	California Ground Squirrel	Expected
<i>Sciurus carolinensis</i>	Gray Squirrel	Expected
<i>Tamias merriami</i>	Merriam's Chipmunk	Expected
<b><i>Tamias speciosus callipeplus</i></b>	<b>Mount Piños Chipmunk</b>	<b>Expected (Possible)</b>
<i>Thomomys bottae</i>	Botta's Pocket Gopher	Expected
<i>Peromyscus maniculatus</i>	Deer Mouse	Expected
<b><i>Perognathus alticola inexpectatus</i></b>	<b>Tehachapi Pocket Mouse</b>	<b>Expected (Possible)</b>
<i>Neotoma fuscipes</i>	Dusky-footed Woodrat	Expected
<i>Microtus californicus</i>	California Vole	Expected
<b><i>Taxidea taxus</i></b>	<b>American Badger</b>	<b>Expected (Possible)</b>
<i>Canis latrans</i>	Coyote	Expected
<i>Urocyon cinereoargenteus</i>	Gray Fox	Expected
<i>Ursus americanus</i>	Black Bear	Expected
<i>Procyon lotor</i>	Raccoon	Expected
<i>Spilogale gracilis</i>	Western Spotted Skunk	Expected
<i>Mephitis mephitis</i>	Striped Skunk	Expected
<i>Felis concolor</i>	Mountain Lion	Expected
<i>Lynx rufus</i>	Bobcat	Expected
<i>Odocoileus hemionus</i>	Mule Deer	Expected

IV. BIOLOGICAL RESOURCES:	PROJECT IMPACT DEGREE OF EFFECT <sup>6</sup>				CUMULATIVE IMPACT DEGREE OF EFFECT			
What level of impact will the proposal have on:	N	LS	PS-M	PS	N	LS	PS-M	PS
A. Endangered, Threatened, or Rare Species		X				X		
B. Wetland Habitat	X				X			
C. Coastal Habitat	X				X			
D. Migration Corridors		X			X			
E. Locally Important Species/Communities		X				X		
<b>Will the proposal:</b>								
a) Have a substantial adverse effect, either directly or through habitat modifications, on any species identified as a candidate, sensitive, or special-status species in local or regional plans, policies, or regulations, or by the California Department of Fish and Game or U.S. Fish and Wildlife Service?		X				X		
b) Have a substantial adverse effect on any riparian habitat or other sensitive natural community identified in local or regional plans, policies, regulations or by the California Department of Fish and Game or U.S. Fish and Wildlife Service?	X				X			
c) Have a substantial adverse effect on federally protected wetland as defined by Section 404 of the Clean Water Act (including, but not limited to, marsh, vernal pool, coastal, etc.) through direct removal, filling, hydrological interruption, or other means?	X				X			
d) Interfere substantially with the movement of any native resident or migratory fish or wildlife species or with established native resident or migratory wildlife corridors, or impede the use of native wildlife nursery sites?	X				X			
e) Conflict with any local policies or ordinances protecting biological resources, such as a tree preservation policy or ordinance?	X				X			
f) Conflict with the provisions of an adopted Habitat Conservation Plan, Natural Community Conservation Plan, or other approved local, regional, or state habitat conservation plan?	X				X			

<sup>6</sup> N = No Impact; LS = Less Than Significant; PS-M = Potentially Significant Impact Unless Mitigation Incorporated;  
PS = Potentially Significant Impact.

#### ADDITIONAL COMMENTS OR EXPLANATIONS:

DMEC conducted a literature search of California Native Plant Society's *Inventory of Rare and Endangered Plants of California* (CNPS 2001) and the *Checklist of Ventura County Rare Plants* (Magney 2005) to account for all special-status plant species with potential to occur in the vicinity of the proposed project site. DMEC also conducted a search of the CDFG's CNDDDB RareFind3 (CDFG 2004) for the Frazier Mountain, California Quadrangle (USGS 7.5-minute Series Topographic Map), and all surrounding quads (Grapevine, Cuddy Valley, Lebec, McDonald Peak, Pleito Hills, Lockwood Valley, Black Mountain, and Pastoria Creek), to account for all special-status plant and wildlife species and habitats with potential to occur onsite.

The proposed project area is known to be inhabited by several **special-status plant species**. At least 72 plant taxa of the 204 plants reported and expected onsite (~35%) are considered at least locally rare in Ventura County (defined as those plants with ten or fewer populations in the County [Magney 2005]). Some of the 72 plant taxa represent records that are only known in Ventura County from the general area of the project site, representing a significant biological resource, while other taxa reported or expected onsite are CNPS Listed (Listed by the) or are Federally and/or State listed, based on a search of CDFG's CNDDDB RareFind3 (CDFG 2004). In either case, their presence onsite is significant, and impacts to these reported taxa may be considered a significant impact due to their rarity in Ventura County. However, DMEC does not expect the proposed project to result in any impacts to these plant species since the project will use the existing footprint, an existing tower, and work-crews will remain on the existing roads and within the existing work areas.

Note that *Eriophyllum lanatum* var. *hallii* (Fort Tejon Woolly Sunflower) is the only CNDDDB special-status plant species tracked within the Frazier Mountain Quadrangle (the quad that the project site is located within), and DMEC expects that this species has some potential of occurring onsite; however, it is only known from the Fort Tejon area a few miles north in Kern County.

The proposed project area is also expected and known to be inhabited by several **special-status wildlife** species. Two CNDDDB-tracked bird species have been reported in the immediate vicinity of the project site, including California Condor and Prairie Falcon, which were observed by David Campbell on 9 May 2004<sup>7</sup>. Three wildlife species are CNDDDB-tracked within the Frazier Mountain Quadrangle, including Tehachapi Slender Salamander, Southwestern Pond Turtle, and Yellow-blotched Salamander. However, little to no habitat exists onsite or in the immediate vicinity for these species. The project site does contain habitat required by several other CNDDDB-tracked wildlife species, and DMEC expects that these sensitive species may inhabit or frequent the project site. The CNDDDB results table is provided on the following page.

The CNDDDB search of RareFind3 also resulted in several **sensitive plant communities** that have potential to exist in the vicinity of the project site (refer to the CNDDDB results table provided on the following page). However, based on past field trips to Frazier Mountain, DMEC does not expect the tracked sensitive plant communities to inhabit the landscape in the immediate vicinity of the project site. Therefore, no sensitive habitats are expected to be impacted as a result of the proposed project, especially since the project is utilizing an existing footprint.

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<sup>7</sup> Obtained from <http://groups.yahoo.com/group/venturacobirding/message/1181>



**Recommendations:**

1. Since the proposed project would occur entirely within an existing tower facility, and no new towers or facilities would be constructed, no additional actions or mitigation is required. However, if any new work areas are used that are in natural vegetation, additional surveys would be warranted and recommended as described below:

a. No recent botanical surveys of the project site have been conducted. Focused botanical field surveys should be conducted during late-June or early July, and late-August to early September to account for and map all special-status species potentially onsite since the facility was originally permitted. Botanical surveys should follow CNPS and CDFG survey protocols, and voucher specimens should be collected to provide for independent verification. The surveys should be conducted by a qualified botanist familiar with the flora of Ventura County.

b. Lichens and bryophytes have not been conducted onsite. Potential exists for one or more special-status lichen or bryophytes species to occur in the region and onsite (but not likely at the construction site). Surveys of the lichen and bryophyte floras are recommended to determine if any of the lichen or bryophyte species present are considered rare by the California Lichen Society (Magney 1999) or CNPS (2001 for bryophytes) or if any are of local significance.

c. Focused seasonal, summertime, field surveys for special-status wildlife should be conducted onsite especially to determine Federally and/or State listed wildlife species are present onsite. The surveys should follow U.S. Fish and Wildlife Service protocols. The surveys should be conducted by a qualified biologist familiar with the sensitive species.

d. Natural vegetation should be classified, mapped, and quantified at the plant association level and sensitive or unique communities identified.

**Citations/References Cited:**

- Behler, J.L. and F.W. Wayne. 1992. *The Audubon Society Field Guide to North American Reptiles and Amphibians* (Tenth Printing). Alfred A. Knopf, New York.
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- National Geographic. 2002. *Field Guide to the Birds of North America* (Fourth Edition). Washington, D.C.
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<b>D. <u>MANDATORY FINDINGS OF SIGNIFICANCE</u></b>	<b><u>Yes/Maybe</u></b>	<b><u>No</u></b>
Based on the information contained with Section B6:		
1. Does the project have the potential to degrade the quality of the environment, substantially reduce the habitat of a fish or wildlife species, cause a fish or wildlife population to drop below self sustaining levels, threaten to eliminate a plant or animal community, reduce the number or restrict the range of a rare or endangered plant or animal, or eliminate important examples of major periods of California's history or prehistory?		<b>X</b>
2. Does the project have the potential to achieve short-term, to the disadvantage of long-term, environmental goals? (A short-term impact on the environment is one that occurs in a relatively brief, definitive period of time while long-term impacts will endure well into the future.)		<b>X</b>
3. Does the project have impacts that are individually limited, but cumulatively considerable? "Cumulatively considerable" means that the incremental effects of a project are considerable when viewed in connection with the effects of past projects, the effect of other current projects, and the effect of probable future projects. (Several projects may have relatively small individual impacts on two or more resources, but that total of those impacts on the environment is significant.)		<b>X</b>
4. Does the project have environmental effects that will cause substantial adverse effects on human beings, either directly or indirectly?		<b>X</b>

<b>E. <u>DETERMINATION OF ENVIRONMENTAL DOCUMENT:</u></b>	
On the basis of this initial evaluation:	
<b>[X]</b>	I find the proposed project COULD NOT have a significant effect on the environment, and a NEGATIVE DECLARATION should be prepared.
[ ]	I find that although the proposed project could have a significant effect on the environmental, there would not be a significant effect in this case because the mitigation measure(s) described in section C of the Initial Study will be applied to the project, A MITIGATED NEGATIVE DECLARATION should be prepared.
[ ]	I find the proposed project, individually and/or cumulatively, MAY have a significant effect on the environmental, and an ENVIRONMENTAL IMPACT REPORT is required.
[ ]	I find that the proposed project MAY have a "potentially significant impact" or "potentially significant unless mitigated" impact on the environmental, but at least one effect 1) has been adequately analyzed in and earlier document pursuant to applicable legal standards, and 2) has been addressed by mitigation measures based on the earlier analysis as described on attached sheets. An ENVIRONMENTAL IMPACT REPORT is required, but it must analyze only the effects that remain to be addressed.
[ ]	I find that although the proposed project could have a significant effect on the environment, because all potentially significant effects (a) have been analyzed adequately in an earlier EIR or NEGATIVE DECLARATION pursuant to applicable standards, and (b) have been avoided or mitigated pursuant to that earlier EIR or NEGATIVE DECLARATION, including revisions or mitigation measures that are imposed upon the proposed project, nothing further is required.

Biological Resources Initial Study Preparer

Date

5 April 2005