

APPENDIX 8.2A

Special-Status Species Lists

TABLE 8.2-A

Special-Status Species Potentially Occurring in SBEF and SBPP Project Area and San Diego County.

Common Name	Scientific Name ^a	Status ^b	Primary Habitat ^c	Potential Occurrence in Project Area
Plants				
red sand-verbena	<i>Abronia maritima</i>	List 4	Coastal strand, sandy dune	Low potential on site. No suitable coastal strand or sandy dune habitat on site.
San Diego Co. needlegrass	<i>Achnatherum diegoense</i>	List 4	Coastal sage scrub, chaparral	Not expected on site. No suitable coastal sage scrub or chaparral habitat on site; site generally too disturbed to support this species.
California adolphia	<i>Adophia californica</i>	List 2.1	Coastal scrub	Not expected or observed on project site. No suitable habitat on site; conspicuous shrub, would have been observed if present.
Shaw's agave	<i>Agave shawii</i>	List 2.1	Coastal scrub, succulent scrub	Not expected or observed on project site. No suitable habitat on site; large conspicuous succulent, would have been observed if present.
San Diego bur-sage	<i>Ambrosia chenopodiifolia</i>	List 2.1	Coastal sage scrub, succulent scrub	Not expected or observed on project site. No suitable coastal sage scrub or succulent scrub habitat on site.
San Diego ambrosia	<i>Ambrosia pumila</i>	FE, List 1B.1	Grassland	Low potential at southern end of project site (northern too disturbed) in annual grassland areas. None observed during surveys.
San Diego sagewort	<i>Artemisia palmeri</i>	List 4	Riparian, coastal sage	Not expected or observed on project site. No suitable riparian or coastal sage habitat on site.
Coulter's saltbush	<i>Atriplex coulteri</i>	List 1B.2	Grassland	Low potential at southern end of project site (northern too disturbed) in annual grassland areas. None observed during surveys.
South Coast saltscale	<i>Atriplex pacifica</i>	List 1B	coastal salt marsh	Low potential bordering coastal salt marsh sites. None observed during surveys.
Mexican mosquito fern	<i>Azolla mexicana</i>	List 4	Freshwater, slackwater	Not expected on project site, lack of suitable quiet, freshwater habitat.
golden-spined cereus	<i>Bergerocactus emoryi</i>	List 2.2	Coastal sage scrub, succulent scrub	Not expected or observed on project site. No suitable habitat on site; conspicuous succulent, would have been observed if present.
seaside calandriia	<i>Calandrinia maritima</i>	List 4	coastal bluff scrub	Not expected on project site. No suitable coastal bluff scrub habitat on site; most of project site disturbed.
Lewis's evening primrose	<i>Camissonia lewisii</i>	List 3	Undefined	Habitat requirements uncertain but probably only a low potential to occur due to high degree of soil disturbance. None observed during surveys.
wart-stemmed ceanothus	<i>Ceanothus verrucosus</i>	List 2.2	Coastal scrub	Not expected or observed on project site. No suitable habitat on site; conspicuous shrub, would have been observed if present.
Orcutt's pincushion	<i>Chaenactis glabriuscula</i> var. <i>orcuttii</i>	List 1B.1	coastal bluff scrub	Not expected on project site. No suitable coastal bluff scrub habitat on site; most of project site disturbed.

TABLE 8.2-A

Special-Status Species Potentially Occurring in SBEF and SBPP Project Area and San Diego County.

Common Name	Scientific Name ^a	Status ^b	Primary Habitat ^c	Potential Occurrence in Project Area
small-flowered morning glory	<i>Convolvulus simulans</i>	List 4	Heavy, undisturbed clay soil	Not expected on site. No heavy, relatively undisturbed clay soil observed on site.
salt marsh bird's beak	<i>Cordylanthus maritimus</i> ssp. <i>maritimus</i>	FE, SE, List 1B.2	Higher salt marsh	Not expected on project site. No suitable sandy berms or flats within coastal salt marsh on project site. Potential suitable habitat is within coastal salt marsh adjacent to project site. Known to occur at the Tijuana River estuary approximately 5 miles south of the site (SDG&E 1993). It has also been reintroduced at the Sweetwater Marsh Unit NWR (U.S. Department of the Navy and San Diego Unified Port District, 1999).
Orcutt's bird's beak	<i>Cordylanthus orcuttianus</i>	List 2.1	Coastal sage scrub	Not expected on project site. No suitable coastal sage scrub habitat on site; generally found away from immediate coast and at higher elevations.
sea dahlia	<i>Coreopsis maritima</i>	List 2.2	Coastal sage scrub, chaparral, or shaded natural forest	Not expected or observed on project site. No suitable coastal sage scrub, chaparral, or shaded natural forest habitat on site.
San Diego sand aster	<i>Corethrogyne filaginifolia</i> var. <i>incana</i>	List 1B.1	Sandy soils	Not expected on project site. Closest occurrence on Point Loma in sandy soils.
Snake cholla	<i>Cylindropuntia californica</i> var. <i>californica</i>	List 1B.1	Coastal sage scrub	Not expected or observed on project site. No suitable coastal sage scrub habitat on site; too much disturbance.
Otay tarplant	<i>Deinandra conjugens</i>	FT, SE, List 1B.1	Heavy, undisturbed clay soil, away from coast	Not expected on project site. No suitable heavy clay soils; occurs away from immediate coast.
western dichondra	<i>Dichondra occidentalis</i>	List 4	Coastal sage scrub	Not expected on project site. No suitable coastal sage scrub habitat on site; most of project site disturbed.
Orcutt's dudleya	<i>Dudleya attenuata</i> ssp. <i>orcuttii</i>	List 2.1	Coastal sage scrub, chaparral	Not expected on site. No suitable coastal sage scrub or chaparral habitat on site; site generally too disturbed to support this species.
Palmer's goldenbush	<i>Ericameria palmeri</i> ssp. <i>palmeri</i>	List 2.2	Coastal sage scrub or wash	Not expected or observed on project site. No suitable wash or coastal sage scrub habitat on site; not expected in disturbed areas.
San Diego button-celery	<i>Eryngium aristulatum</i> var. <i>parishii</i>	FE, SE, List 1B.1	Vernal pool	Not expected or observed on project site. No suitable vernal pool habitat on site.
cliff spurge	<i>Euphorbia misera</i>	List 2.2	Coastal bluff scrub	Not expected or observed on project site. No suitable coastal bluff scrub habitat on site.

TABLE 8.2-A

Special-Status Species Potentially Occurring in SBEF and SBPP Project Area and San Diego County.

Common Name	Scientific Name ^a	Status ^b	Primary Habitat ^c	Potential Occurrence in Project Area
San Diego barrel cactus	<i>Ferocactus viridescens</i>	List 2.1	Coastal sage scrub or chaparral.	Not expected on site. No suitable coastal sage scrub or chaparral habitat on site; site generally too disturbed to support this species. Its highest densities are found on Otay Mesa. CNDDDB (2006) lists one historic occurrence on Coronado Island.
Palmer's frankenia	<i>Frankenia palmeri</i>	List 2.1	Coastal dunes and salt marshes	Low potential in areas bordering salt marsh. The only known U.S. population is fairly close to the project site. A relatively low, obscure shrub that may have been overlooked during the botanical surveys.
Palmer's grappling-hook	<i>Harpagonella palmeri</i>	List 4	Heavy, undisturbed clay soil	Not expected on site. No heavy, relatively undisturbed clay soil observed on site.
graceful tarplant	<i>Holocarpha virgata ssp. elongata</i>	List 4	Grassland	Low potential in annual grassland at south end of project site; disturbance tolerant. None observed during surveys.
decumbent goldenbush	<i>Isocoma menziesii var. decumbens</i>	List 1B.2	Utilizes coastal sage scrub habitat intermixed with grassland, and is more partial to clay soils.	Not observed on project site. Shrub detectable year round and not seen during February and May surveys.
San Diego marsh-elder	<i>Iva haysiana</i>	List 2.2	Marshes, wetlands, coastal salt marsh	Not observed on project site. Low potential in channels feeding into bay. Although marginal habitat may occur along Telegraph Canyon Creek, this fairly large and readily detectable shrub would have been observed if present. CNDDDB (2006) lists one historic occurrence near the Sweetwater Marsh Unit NWR and another in Chula Vista within the Otay River corridor.
spiny rush	<i>Juncus acutus ssp. leopoldii</i>	List 4	Marshes, wetlands, coastal salt marsh	Not observed on project site. Large and conspicuous plant in marshes and wetlands. Also not observed in adjacent coastal salt marsh.
Coulter's goldfields	<i>Lasthenia glabrata ssp. coulteri</i>	List 1B.1	Salt marsh	Not expected on project site due to lack of suitable isolated upland islands in coastal salt marsh habitat; generally not found on fill sites.
Nuttall's lotus	<i>Lotus nuttallianus</i>	List 1B.1	Coastal strand, beaches, coastal sand dunes, and coastal scrub	Not expected on project site due to lack of suitable sandy soils. Not observed during botanical surveys. CNDDDB (2006) lists historic occurrences on Coronado Island
California boxthorn	<i>Lycium californicum</i>	List 4	coastal bluff scrub	Not expected on site. No suitable coastal bluff scrub on site; site generally too disturbed to support this species.
rush-like bristelweed	<i>Machaeranthera juncea</i>	List 4	coastal sage scrub	Not expected on project site. No suitable coastal sage scrub habitat on site; generally found away from immediate coast.
small-flowered microseris	<i>Microseris douglasii var. platycarpha</i>	List 4	Heavy, undisturbed clay soil	Not expected on site. No heavy, relatively undisturbed clay soil observed on site.

TABLE 8.2-A

Special-Status Species Potentially Occurring in SBEF and SBPP Project Area and San Diego County.

Common Name	Scientific Name ^a	Status ^b	Primary Habitat ^c	Potential Occurrence in Project Area
San Diego goldenstar	<i>Muilla clevelandii</i>	List 1B.1	coastal sage scrub or native grassland	Not expected on site. No suitable coastal sage scrub or native grassland habitat on site; site generally too disturbed to support this species.
little mousetail	<i>Myosurus minimus</i> ssp. <i>apus</i>	List 3.1	Vernal pool	Not expected or observed on project site. No suitable vernal pool habitat on site.
spreading navarretia	<i>Navarretia fossalis</i>	FT, List 1B.1	Vernal pool	Not expected or observed on project site. No suitable vernal pool habitat on site.
coast woolly-heads	<i>Nemacaulis denudata</i> var. <i>denudata</i>	List 1B.2	Coastal dunes	Low potential on site. Site does not appear to support suitable coastal strand or sandy dune habitat on site.
slender woolly-heads	<i>Nemacaulis denudata</i> var. <i>gracilis</i>	List 2.2	Coastal dunes	Low potential on site. Site does not appear to support suitable coastal strand or sandy dune habitat on site.
California adder's tongue	<i>Ophioglossum californicum</i>	List 4	vernal pools or mesic mesa-top	Not expected on site. No suitable vernal pools or mesic mesa-top habitat on site; site generally too disturbed to support this species.
California orcutt's grass	<i>Orcuttia californica</i>	FE, SE, List 1B	Vernal pool	Not expected or observed on project site. No suitable vernal pool habitat on site.
Baja California birdbush	<i>Ornithostaphylos oppositifolia</i>	List 2.1	Coastal Chaparral	Not expected or observed on project site. No suitable habitat on site; conspicuous shrub, would have been observed if present.
golden-rayed pentachaeta	<i>Pentachaeta aurea</i>	List 4	coastal sage scrub, chaparral, or native grasslands	Not expected on project site due to lack of undisturbed soils and lack of coastal sage scrub, chaparral, or native grasslands.
Brand's phacelia	<i>Phacelia stellaris</i>	List 1B.1	sandy soils, coastal bluff scrub, or coastal sage scrub	Not expected on project site due to lack of sandy soils, coastal bluff scrub, or coastal sage scrub on project site.
Otay Mesa mint	<i>Pogogyne nudiscula</i>	FE, SE, List 1B.1	Vernal pool	Not expected or observed on project site. No suitable vernal pool habitat on site.
Nuttall's scrub oak	<i>Quercus dumosa</i>	List 1B.1	Coastal chaparral with a relatively open canopy cover in flat terrain	Not expected or observed on project site. No suitable habitat on site; conspicuous shrub, would have been observed if present.
small-flowered rose	<i>Rosa minutifolia</i>	SE, List 2.1	coastal sage scrub	Not expected or observed on project site. No suitable coastal sage scrub habitat on site; readily detectable much of year, would have been observed if present.
purple stemodia	<i>Stemodia durantifolia</i>	List 2.1	rocky stream course	Not expected on project site. No suitable rocky stream course habitat on site.

TABLE 8.2-A

Special-Status Species Potentially Occurring in SBEF and SBPP Project Area and San Diego County.

Common Name	Scientific Name ^a	Status ^b	Primary Habitat ^c	Potential Occurrence in Project Area
estuary seablite	<i>Suaeda esteroa</i>	List 1B.2	coastal salt marsh	Observed on site in coastal salt marsh along mouth of Telegraph Canyon Creek and in rip rap of intake/effluent channels.
woolly seablite	<i>Suaeda taxifolia</i>	List 4	coastal salt marsh	Observed on project site along coastal salt marsh borders in rip rap of intake/effluent channels.
Invertebrates				
San Diego fairy shrimp	<i>Branchinecta sandieogensis</i>	FE	Most commonly found in vernal pools on coastal terraces with elevations from 15 to 125 meters, up to 500 m. Soils commonly associated with chamise Chaparral, occasionally in coastal sage scrub and grasslands, primarily east and north of the city of San Diego. Requires ponding habitats with at least 2 weeks inundation.	No natural vernal pools on site, small, shallow ponding areas in fill material on site do not pond water long enough and most years do not fill.
Sandy beach tiger beetle	<i>Cicindela hirticollis gravida</i>	CSC, FSC	Sandy areas subject to tidal flows	No suitable habitat on site
Sand dune tiger beetle	<i>Cicindela latesignata latesignata</i>	FT, SCS	Coastal dunes and mudflats	No suitable habitat on site
Mudflat tiger beetle	<i>Cicindela trifasciata sigmoidea</i>	CSC	Mudflats and other areas of dark, moist soils	Suitable habitat occurs outside of project area
Gabb's tiger beetle	<i>Cicindela gabbi</i>	CSC	Mud and salt flats of coastal marshes	Suitable habitat occurs outside of project area
Globose dune beetle	<i>Coelus globosus</i>	Former FPT, CSC	Coastal foredunes	No suitable habitat on site
Quino checkerspot butterfly	<i>Euphydryas editha quino</i>	FE	Meadows and upland sage scrub/chapparral; larvae dependent upon <i>Plantago erecta</i> or <i>Castilleja exserta</i>	No suitable habitat on site; plant hosts not observed
Laguna Mountains skipper	<i>Pyrgus ruralis lagunae</i>	FE	Higher elevation areas of southern California; adults and larvae dependent upon <i>Horkelia clevelandii</i>	No suitable habitat on site; plant host not observed

TABLE 8.2-A

Special-Status Species Potentially Occurring in SBEF and SBPP Project Area and San Diego County.

Common Name	Scientific Name ^a	Status ^b	Primary Habitat ^c	Potential Occurrence in Project Area
Tidewater goby	<i>Eucyclogobius newberryi</i>	FE	Waters and subtidal flats of coastal lagoons, estuaries, and marshes; historically ranged from Tillas Slough to Agua Hedionda Lagoon	Site outside of current and historic range, closest Critical Habitat is over 40 miles north of the site.
Unarmored threespine stickleback	<i>Gasterosteus aculeatus williamsoni</i>	FE, CE	Requires clear, flowing, well-oxygenated water with associated pools and eddies of quiet water and areas of dense vegetation or debris to provide adequate cover and food supply; historically common throughout the Los Angeles, California basin.	No suitable habitat on site, limited mostly to the northwestern area of Los Angeles County, one small area in Santa Barbara County, and a small, isolated, introduced population in San Felipe Creek in San Diego County.
Southern steelhead	<i>Oncorhynchus mykiss</i>	FE	Cool, clean water, upland and riparian vegetation required to stabilize soil and provide shade, clean gravel for spawning and egg-rearing, adequate food, and varied channel forms.	No suitable habitat on site in Telegraph Canyon Creek. Southern steelhead have historically been caught in the Sweetwater and Tijuana Rivers.
Reptiles /Amphibians				
Arroyo toad	<i>Bufo californicus</i>	FE	Coastal rivers and streams with friable sandy soil in riparian habitats for shelter and forage.	No suitable habitat for Arroyo toad on the project site. Known from the Sweetwater River area.
California red-legged frog	<i>Rana aurora draytoni</i>	FT	Slow moving streams, marshes, ponds with dense vegetation along shoreline. Requires permanent water with emergent vegetation for breeding.	No suitable habitat for California red-legged frog (CRLF) occurs in the cement-lined creeks. No permanent water occurs on site. An unvegetated, semi-permanent ponded excavation with African clawed frogs and mosquitofish on site would not be suitable habitat for CRLF.
Green Sea turtle	<i>Chelonia mydas</i>	FT	Shallow, warm subtidal habitat with marine algae and eel grass for forage. Breeds in Mexico and Baja California. A known population occurs in South San Diego Bay and has been attracted to warm water effluent from SBPP since the 1960's.	Resident population occurs in SBPP effluent channel and eel grass beds of South San Diego Bay. NMFS studies include trapping on the spit to the Chula Vista Reserve. Warm water effluent may artificially trap turtles in the South Bay during winter when they should migrate to Mexico and Baja California.
San Diego coast horned lizard	<i>Phrynosoma coronatum blainvillii</i>	CSC, FSC	Higher salt marsh, dunes, coastal sage scrub. Ants are the primary dietary item.	Hard packed sandy habitat on site most likely not suitable for San Diego coast horned lizard. CNDDB (2006) lists one historic occurrence in Chula Vista within the Otay River corridor.

TABLE 8.2-A

Special-Status Species Potentially Occurring in SBEF and SBPP Project Area and San Diego County.

Common Name	Scientific Name ^a	Status ^b	Primary Habitat ^c	Potential Occurrence in Project Area
Silvery legless lizard	<i>Anniella pulchra pulchra</i>	CSC, FSC	Coastal dunes and coastal scrub, as well as other upland habitats	Hard packed sandy habitat on site most likely not suitable for silvery legless lizard. No undisturbed areas with appropriate cover.
Birds				
Bald eagle	<i>Haliaeetus leucocephalus</i>	FD, CE	Various habitats primarily near water bodies	Unlikely to occur onsite, no suitable habitat; infrequent observations in south San Diego Bay. None observed during surveys.
Belding's savannah sparrow	<i>Ammodramus sandwichensis beldingi</i>	CE, FSC	Higher salt marsh for nesting, other salt marsh, salt flats, tidal creeks, channel edges, and other intertidal areas for foraging.	Suitable habitat occurs outside of project area; has nested at salt works and Chula Vista Wildlife Reserve. Observed in J Street Marsh northwest of site and Channel Creek in February and May 2006. CNDDDB (2006) shows 8 pairs of sparrows inhabited J Street Marsh in 1986 and 4 in 2001.
Black skimmer	<i>Rynchops niger niger</i>	CSC	Nests in colonies on unvegetated gravel bars, sandy beaches, low islets or man-made dredge spoils and dikes. Feeds near mouths of rivers on small fish. Known from the south San Diego Bay and Salton Sea.	Suitable habitat occurs outside of project area on Salt Works dikes, and intertidal salt flats. Could forage along the site shoreline and mouth of Telegraph Canyon Creek.
Burrowing owl (coastal population)	<i>Athene cunicularia hypugaea</i>	CSC, FSC	Grassland with ground squirrel or hare burrows.	Although potentially suitable habitat occurs on site (berms with mammal burrows), no sign or burrows were observed during surveys in February or May 2006.
California black rail	<i>Laterallus jamaicensis coturniculus</i>	CT, FP	Undisturbed coastal salt marsh and freshwater marsh.	Breeding birds most likely extirpated from San Diego area. Suitable habitat occurs outside of project area, however, most likely a periodic winter migrant.
California brown pelican	<i>Pelecanus occidentalis californicus</i>	FE, CE, FP	Estuarine, marine subtidal, and marine pelagic waters. Nesting in undisturbed islands. Roosts on hard shore foraging over water.	Suitable nesting habitat occurs outside of project area. Known to roost on Salt Works dikes. Observed roosting adults with juveniles on SBPP light poles in February 2006.
California horned lark	<i>Eremophila alpestris</i>	CSC	Open short grassland habitats with no trees or shrubs. Ground nester in small depressions.	Observed in ruderal habitat on the site in February and May 2006. Potentially nests on site north of Telegraph Canyon Creek.
California least tern	<i>Sterna antillarum browni</i>	FE, CE, FP	Bare or sparsely vegetated salt panne, beaches, dunes, gravelly paved areas. Colonial breeder	Breeding populations at salt works since at least 1969 and Chula Vista Wildlife Reserve since 1980. Closest nesting location is approximately 2,000 to 3,000 feet from site boundary on the Reserve. Protected by gate and fence, restricts public access to spit breeding area.
Coastal California gnatcatcher	<i>Polioptila californica californica</i>	FT	Coastal sage scrub. Known from the Sweetwater Marsh NWR.	No suitable habitat on site, not expected to occur.

TABLE 8.2-A

Special-Status Species Potentially Occurring in SBEF and SBPP Project Area and San Diego County.

Common Name	Scientific Name ^a	Status ^b	Primary Habitat ^c	Potential Occurrence in Project Area
Double-crested cormorant	<i>Phalacrocorax auritus</i>	CSC	Perches on protected roosting sites along intertidal hard substrate near waterbodies. Requires undisturbed nest sites on rock ledges or rugged slopes.	Suitable nesting habitat occurs outside of project area, may roost on hard shore structures along shoreline. Observed flying over site during surveys.
Elegant tern	<i>Sterna elegans</i>	CSC, FSC	Mudflats, salt flats, open beaches	Suitable habitat occurs outside of project area
Great (Common) egret	<i>Ardea alba</i>	MB	Primary habitat associated with marshes, lagoons, streams, lakes, and ponds. Also found in fields and meadows. Typically nest communally in tall trees near water. Breeding typically begins in March.	Observed foraging in salt marshes at mouth of Telegraph Canyon Creek and along shoreline hunting from hard shore.
Great blue heron	<i>Ardea herodias</i>	MB	Primary habitat associated with marshes, lagoons, streams, lakes, and ponds. Also found in fields and meadows. Typically nest communally in tall trees near water. Breeding typically begins in March.	Observed foraging in salt marshes at mouth of Telegraph Canyon Creek and along shoreline hunting from hard shore.
Gull-billed tern (nesting colony)	<i>Sterna nilotica vanrossemi</i>	CSC, FSC	Forages along mudflats, lakes, emergent wetlands, feeding on mole crabs, fish, lizards, and sometimes least tern and snowy plover chicks. Known from the Salton Sea and San Diego Bay areas.	Suitable forage habitat occurs outside of project area in Salt Work ponds. No nesting or forage habitat occurs on site and none were observed during surveys.
Least Bell's vireo	<i>Vireo bellii pusillus</i>	FE	Cottonwood-willow forest, oak woodland, shrubby thickets, and dry washes	Suitable habitat occurs outside of project area
Light footed clapper rail	<i>Rallus longirostris levipes</i>	FE, CE, FP	Lower salt marsh with dense pickleweed and/or cordgrass thickets	Suitable coastal marsh habitat occurs outside of project area. CNDDDB records 5 rails observed in 1984 and 1 in 1985 in marshes at southern end of San Diego Bay. Known to occur in Tijuana River estuary.
Large-billed Savannah sparrow (wintering)	<i>Ammodramus sandwichensis rostratus</i>	CSC, FSC	Salt marshes in Salton Sea, southern California, and Baja California.	Suitable habitat occurs outside of project impact area. Bird is uncommon in area, mostly occurs south in Baja California.
Loggerhead shrike	<i>Lanius ludovicianus</i>	CSC, FSC	Higher salt marsh for foraging, nest in adjacent uplands.	Landscape areas may provide nesting habitat. None observed on site during surveys.

TABLE 8.2-A

Special-Status Species Potentially Occurring in SBEF and SBPP Project Area and San Diego County.

Common Name	Scientific Name ^a	Status ^b	Primary Habitat ^c	Potential Occurrence in Project Area
Long-billed curlew	<i>Numenius americanus</i>	CSC	Middle salt marsh, intertidal flats	Salt marsh adjacent to shoreline outside property fence may provide forage habitat.
Short-eared owl	<i>Asio flammeus flammeus</i>	CSC	Salt marsh and adjacent uplands	No suitable undisturbed habitat exists on the project site. None were observed during surveys.
Southwestern willow flycatcher	<i>Empidonax traillii extimus</i>	FE	Dense riparian habitats along rivers, streams, or other wetlands	Suitable habitat occurs outside of project area
Western snowy plover	<i>Charadrius alexandrinus nivosus</i>	FT, CSC	Intertidal mudflats, beaches, dunes, salt flats and dikes	Suitable habitat occurs outside of project area; Critical Habitat designated on Silver Strand and Sweetwater Marsh NWR
Osprey	<i>Pandion haliaetus</i>	MB	Forages in many habitats all of which require open water; nests in trees near rivers, lakes, and bays.	Suitable nesting habitat occurs within the project area, however, none were observed during 2006 surveys. Suitable foraging habitat occurs within San Diego Bay. Observed foraging in salt marsh northwest of site.
Peregrine falcon	<i>Falco peregrinus</i>	FD, SE, FP	Woodland, forest, and coastal habitats with suitable shelter (cliffs) and nest structures.	Observed wintering and foraging on SBPP structures. Most likely nests off site but within foraging distance. Observed foraging on pigeons and starlings that nest on SBPP structures during breeding season in May 2006.
Short-tailed albatross	<i>Phoebastria albatrus</i>	FE	Feeds in open marine waters; nests on beaches	Suitable habitat occurs outside of project area
Yellow-billed cuckoo	<i>Coccyzus americanus</i>	FC, CE	Cottonwood-tree willow riparian forest	No suitable habitat on or near Site
Mammals				
Stephens' kangaroo rat	<i>Dipodomys stephensi</i>	FE	annual grassland with sparse perennial vegetation	No suitable undisturbed habitat exists on the project site. No sign was observed during surveys.
Southern sea otter	<i>Enhydra lutris nereis</i>	FT, FP	Near-shore marine habitat; kelp forests	No suitable habitat on or near Site
Peninsular bighorn sheep	<i>Ovis canadensis</i>	FE, CT	Arid, steep-sloped habitat, mountains, canyons, washes	No suitable habitat on or near Site
Pacific pocket mouse	<i>Perognathus longimembris pacificus</i>	FE, CSC	Sandy beaches, coastal sage scrub and grassland	No suitable undisturbed habitat exists on the project site. None were observed during surveys.

TABLE 8.2-A

Special-Status Species Potentially Occurring in SBEF and SBPP Project Area and San Diego County.

Common Name	Scientific Name ^a	Status ^b	Primary Habitat ^c	Potential Occurrence in Project Area
-------------	------------------------------	---------------------	------------------------------	--------------------------------------

Notes:

^a Scientific names are based on the following sources: AOU (1983); Jennings (1983); Zeiner *et al.* (1990a-c).^b Status. Status of species relative to the Federal and California State Endangered Species Acts and Fish and Game Code:^c Primary Habitat. Most likely habitat association with essential life history requirements.Federal Status

FE Federally listed as endangered.

FT Federally listed as threatened.

FPE Proposed endangered.

FPT Proposed threatened.

FD Delisted from Federal threatened or endangered status.

FSC Federal Species of Special Concern. Proposed rules have not yet been issued because they have been precluded at present by other listing activity.

MB Migratory Bird Treaty Act (MBTA). of 1918. Protects native birds, eggs, and their nests. Note: all birds listed are protected under the MBTA in addition to the formal designated status.

California Status

CE State listed as endangered. Species whose continued existence in California is jeopardized.

CT State listed as threatened. Species that although not presently threatened in California with extinction are likely to become endangered in the foreseeable future.

CSC California Department of Fish and Game "Species of Special Concern." Species with declining populations in California.

FP Fully protected against take pursuant to the Fish and Game Code Sections 3503.5, 3511, 4700, 5050, 5515.

Other Status

CNPS California Native Plant Society Listing (does not apply to wildlife species).

Plants, rare, threatened or endangered in California and elsewhere and are rare throughout their range. According to CNPS, all of the plants constituting List 1B meet the definitions of Sec. 1901, Chapter 10 (Native Plant Protection) of the California Department of Fish and Game Code and are eligible for state listing.

SOURCE: California Dept. of Fish and Game, California Natural Diversity Database, 2006; California Native Plant Society, Inventory of Rare and Endangered Vascular Plants of California, 2005; USFWS List of Endangered or Threatened Species for San Diego County, California.

Acanthomintha ilicifolia

San Diego thorn-mint

Element Code: PDLAM01010

_____ Status _____	NDDB Element Ranks	_____ Other Lists _____
Federal: Threatened	Global: G1	CNPS List: 1B
State: Endangered	State: S1.1	R-E-D Code: 2-3-2

Occurrence No. 71 Map Index: 41469 EO Index: 41469 — Dates Last Seen —
Occ Rank: Unknown Element: XXXX-XX-XX
Origin: Natural/Native occurrence Site: XXXX-XX-XX
Presence: Presumed Extant
Trend: Unknown
Main Source: REISER, C. 1994 (LIT) Record Last Updated: 1999-08-13

Quad Summary: IMPERIAL BEACH (3211751/011D)

County Summary: SAN DIEGO

Location: NORTHERN BLUFFS OF POGGI CANYON EAST OF 1991 TERMINUS OF ORANGE AVENUE, SOUTHEAST OF CHULA VISTA.

Lat/Long: 32.61103° / -117.02462°	Township: 18S
UTM: Zone-11 N3608167 E497690	Range: 01W
Mapping Precision: NON-SPECIFIC	Section: 18 Qtr: XX
Symbol Type: POINT	Meridian: S
Radius: 2/5 mile	Elevation: 400 ft

Cordylanthus maritimus ssp. maritimus

salt marsh bird's-beak

Element Code: PDSCR0J0C2

----- Status ----- NDDB Element Ranks ----- Other Lists -----
Federal: Endangered Global: G4?T2 CNPS List: 1B
State: Endangered State: S2.1 R-E-D Code: 2-2-2

Occurrence No. 1 Map Index: 04076 EO Index: 22097 ----- Dates Last Seen -----
Occ Rank: Unknown Element: 1938-07-25
Origin: Natural/Native occurrence Site: 1938-07-25
Presence: Presumed Extant
Trend: Unknown
Main Source: GANDER, F. #6152 SD (HERB) Record Last Updated: 1995-08-23

Quad Summary: IMPERIAL BEACH (3211751/011D)

County Summary: MEXICO, SAN DIEGO

Location: BORDER FIELD, NEAR BOUNDARY MONUMENT #258, SOUTH OF IMPERIAL BEACH.

Lat/Long: 32.53686° / -117.12200° Township: 19S
UTM: Zone-11 N3599951 E488543 Range: 02W
Mapping Precision: NON-SPECIFIC Section: 07 Qtr: XX
Symbol Type: POINT Meridian: S
Radius: 1/5 mile Elevation:

Occurrence No. 2 Map Index: 04047 EO Index: 26960 ----- Dates Last Seen -----
Occ Rank: Unknown Element: 1988-04-26
Origin: Natural/Native occurrence Site: 1988-04-26
Presence: Presumed Extant
Trend: Unknown
Main Source: FERGUSON, H. 1981 (OBS) Record Last Updated: 1998-10-16

Quad Summary: IMPERIAL BEACH (3211751/011D)

County Summary: SAN DIEGO

Location: TIJUANA SLOUGH NATIONAL WILDLIFE REFUGE, BETWEEN THE MOUTH OF TIJUANA RIVER AND
CORONADO AVE, IMPERIAL BEACH.

Lat/Long: 32.56931° / -117.12821° Township: 18S
UTM: Zone-11 N3603549 E487965 Range: 02W
Mapping Precision: SPECIFIC Section: 30 Qtr: S
Symbol Type: POLYGON Meridian: S
Area: 49.7 ac Elevation: 5 ft

Cordylanthus maritimus ssp. maritimus

salt marsh bird's-beak

Element Code: PDSCR0J0C2

Status	NDDB Element Ranks	Other Lists
Federal: Endangered State: Endangered	Global: G4?T2 State: S2.1	CNPS List: 1B R-E-D Code: 2-2-2

Occurrence No. 3 Map Index: 39945 EO Index: 34947 Dates Last Seen

Occ Rank: Unknown Element: 1903-10-03

Origin: Natural/Native occurrence Site: 1903-10-03

Presence: Presumed Extant

Trend: Unknown

Main Source: CHANDLER #4003 DS (HERB) Record Last Updated: 1998-11-25

Quad Summary: IMPERIAL BEACH (3211751/011D), POINT LOMA (3211762/011B)

County Summary: SAN DIEGO

Location: CORONADO SAND SPIT, NEAR SAN DIEGO.

Lat/Long: 32.63845° / -117.14360°	Township: 18S
UTM: Zone-11 N3611215 E486531	Range: 03W
Mapping Precision: NON-SPECIFIC	Section: 01 Qtr: XX
Symbol Type: POLYGON	Meridian: S
Area: 1,584.0 ac	Elevation: 10 ft

Occurrence No. 34 Map Index: 04062 EO Index: 17507 Dates Last Seen

Occ Rank: Unknown Element: 1981-05-28

Origin: Natural/Native occurrence Site: 1981-05-28

Presence: Presumed Extant

Trend: Unknown

Main Source: FERGUSON, H. 1981 (OBS) Record Last Updated: 1998-10-16

Quad Summary: IMPERIAL BEACH (3211751/011D)

County Summary: SAN DIEGO

Location: TIJUANA MARSH NATIONAL WILDLIFE REFUGE, NORTH OF BORDER FIELD STATE PARK AND SW OF IMPERIAL BEACH NAVAL AIR STATION.

Lat/Long: 32.55432° / -117.12483°	Township: 19S
UTM: Zone-11 N3601887 E488280	Range: 02W
Mapping Precision: SPECIFIC	Section: 06 Qtr: NE
Symbol Type: POLYGON	Meridian: S
Area: 11.5 ac	Elevation: 5 ft

Cordylanthus maritimus ssp. maritimus

salt marsh bird's-beak

Element Code: PDSCR0J0C2

_____ Status _____	NDDB Element Ranks	_____ Other Lists _____
Federal: Endangered	Global: G4?T2	CNPS List: 1B
State: Endangered	State: S2.1	R-E-D Code: 2-2-2

Occurrence No. 35 **Map Index:** 04069 **EO Index:** 17506 **— Dates Last Seen —**
Occ Rank: Unknown **Element:** 1981-05-28
Origin: Natural/Native occurrence **Site:** 1981-05-28
Presence: Presumed Extant
Trend: Unknown
Main Source: FERGUSON, H. 1981 (OBS) **Record Last Updated:** 1998-10-16

Quad Summary: IMPERIAL BEACH (3211751/011D)

County Summary: SAN DIEGO

Location: TIJUANA MARSH AT NORTH END OF BORDER FIELD STATE PARK (S UNIT), SSW OF IMPERIAL BEACH NAVAL AIR STATION.

Lat/Long: 32.54840° / -117.12485°	Township: 19S
UTM: Zone-11 N3601231 E488278	Range: 02W
Mapping Precision: SPECIFIC	Section: 06 Qtr: NE
Symbol Type: POLYGON	Meridian: S
Area: 16.4 ac	Elevation: 5 ft

Occurrence No. 36 **Map Index:** 04074 **EO Index:** 17505 **— Dates Last Seen —**
Occ Rank: Unknown **Element:** 1980-XX-XX
Origin: Natural/Native occurrence **Site:** 1981-05-28
Presence: Presumed Extant
Trend: Unknown
Main Source: FERGUSON, H. 1981 (OBS) **Record Last Updated:** 1998-10-16

Quad Summary: IMPERIAL BEACH (3211751/011D)

County Summary: SAN DIEGO

Location: BORDER FIELD STATE PARK, ABOUT 0.4 MILE NORTH OF INTERNATIONAL BOUNDARY AT MONUMENT #258, SOUTH OF IMPERIAL BEACH.

Lat/Long: 32.54096° / -117.12337°	Township: 19S
UTM: Zone-11 N3600406 E488416	Range: 02W
Mapping Precision: SPECIFIC	Section: 06 Qtr: SE
Symbol Type: POLYGON	Meridian: S
Area: 7.0 ac	Elevation: 5 ft

Deinandra conjugens

Otay tarplant

Element Code: PDAST4R070

_____ Status _____	NDDB Element Ranks _____	Other Lists _____
Federal: Threatened	Global: G1	CNPS List: 1B
State: Endangered	State: S1.1	R-E-D Code: 3-3-2

Occurrence No. 4	Map Index: 04301	EO Index: 16979	— Dates Last Seen —
Occ Rank: Unknown			Element: 1983-XX-XX
Origin: Natural/Native occurrence			Site: 1987-05-24
Presence: Presumed Extant			
Trend: Unknown			
Main Source: ABRAMS, L. #35221 NY (HERB)			Record Last Updated: 1993-04-23

Quad Summary: IMPERIAL BEACH (3211751/011D)

County Summary: SAN DIEGO

Location: RIVER BOTTOM, NEAR OTAY.

Lat/Long: 32.58893° / -117.04197°	Township: 18S
UTM: Zone-11 N3605717 E496061	Range: 02W
Mapping Precision: NON-SPECIFIC	Section: 24 Qtr: SW
Symbol Type: POINT	Meridian: S
Radius: 1 mile	Elevation: 80 ft

Occurrence No. 6	Map Index: 04419	EO Index: 16976	— Dates Last Seen —
Occ Rank: Unknown			Element: 198X-XX-XX
Origin: Natural/Native occurrence			Site: 198X-XX-XX
Presence: Presumed Extant			
Trend: Unknown			
Main Source: BEAUCHAMP, R. 1987 (MAP)			Record Last Updated: 1992-01-09

Quad Summary: IMPERIAL BEACH (3211751/011D)

County Summary: SAN DIEGO

Location: OTAY MESA, E OF DENNERY CANYON.

Lat/Long: 32.57392° / -117.00668°	Township: 18S
UTM: Zone-11 N3604053 E499372	Range: 01W
Mapping Precision: SPECIFIC	Section: 29 Qtr: SW
Symbol Type: POLYGON	Meridian: S
Area: 7.4 ac	Elevation: 520 ft

Occurrence No. 7	Map Index: 04353	EO Index: 16975	— Dates Last Seen —
Occ Rank: Unknown			Element: 1990-06-XX
Origin: Natural/Native occurrence			Site: 1990-06-XX
Presence: Presumed Extant			
Trend: Unknown			
Main Source: ZIPPIN, D. 1990 (MAP)			Record Last Updated: 1994-09-26

Quad Summary: OTAY MESA (3211658/010C), IMPERIAL BEACH (3211751/011D)

County Summary: SAN DIEGO

Location: N OF POGGI CANYON, E OF CHULA VISTA, S OF CHULA VISTA COMMUNITY HOSPITAL.

Lat/Long: 32.61776° / -117.01692°	Township: 18S
UTM: Zone-11 N3608913 E498412	Range: 01W
Mapping Precision: SPECIFIC	Section: XX Qtr: XX
Symbol Type: POLYGON	Meridian: S
Area: 161.5 ac	Elevation: 400 ft

Deinandra conjugens

Otay tarplant

Element Code: PDAST4R070

_____ Status _____	NDDB Element Ranks _____	Other Lists _____
Federal: Threatened	Global: G1	CNPS List: 1B
State: Endangered	State: S1.1	R-E-D Code: 3-3-2

Occurrence No. 8	Map Index: 04345	EO Index: 16974	— Dates Last Seen —
Occ Rank: Unknown			Element: 198X-XX-XX
Origin: Natural/Native occurrence			Site: 198X-XX-XX
Presence: Presumed Extant			
Trend: Unknown			
Main Source: BEAUCHAMP, R. 1987 (MAP)			Record Last Updated: 1993-12-15

Quad Summary: IMPERIAL BEACH (3211751/011D)
County Summary: SAN DIEGO

Location: ABOVE POGGI CYN, E OF CHULA VISTA.

Lat/Long: 32.61036° / -117.02431°	Township: 18S
UTM: Zone-11 N3608093 E497719	Range: 01W
Mapping Precision: SPECIFIC	Section: XX Qtr: XX
Symbol Type: POLYGON	Meridian: S
Area: 6.0 ac	Elevation: 380 ft

Occurrence No. 12	Map Index: 17902	EO Index: 15639	— Dates Last Seen —
Occ Rank: Good			Element: 1990-06-XX
Origin: Natural/Native occurrence			Site: 1990-06-XX
Presence: Presumed Extant			
Trend: Unknown			
Main Source: ZIPPIN, D. 1990 (MAP)			Record Last Updated: 1994-09-26

Quad Summary: OTAY MESA (3211658/010C), IMPERIAL BEACH (3211751/011D)
County Summary: SAN DIEGO

Location: OTAY RANCH; EXTENDING FROM JUST E OF CHESTER GRADE EASTWARD TO SECTION LINE DIVIDING SECTION 22 FROM SECTION 23.

Lat/Long: 32.58477° / -116.98181°	Township: 18S
UTM: Zone-11 N3605256 E501707	Range: 01W
Mapping Precision: SPECIFIC	Section: XX Qtr: XX
Symbol Type: POLYGON	Meridian: S
Area: 273.1 ac	Elevation: 300 ft

Deinandra conjugens

Otay tarplant

Element Code: PDAST4R070

_____ Status _____	NDDB Element Ranks	_____ Other Lists _____
Federal: Threatened	Global: G1	CNPS List: 1B
State: Endangered	State: S1.1	R-E-D Code: 3-3-2

Occurrence No. 16 Map Index: 17905 EO Index: 10050 — Dates Last Seen —
 Occ Rank: Unknown Element: 1990-06-XX
 Origin: Natural/Native occurrence Site: 1990-06-XX
 Presence: Presumed Extant
 Trend: Unknown
 Main Source: ZIPPIN, D. 1990 (MAP) Record Last Updated: 1995-10-30

Quad Summary: IMPERIAL BEACH (3211751/011D)

County Summary: SAN DIEGO

Location: JUST E OF POINT WHERE OTAY VALLEY RD HEADS SOUTHWARD.

Lat/Long: 32.59381° / -117.00340°	Township: 18S
UTM: Zone-11 N3606258 E499680	Range: 01W
Mapping Precision: SPECIFIC	Section: 20 Qtr: NE
Symbol Type: POINT	Meridian: S
Radius: 80 meters	Elevation: 200 ft

Occurrence No. 17 Map Index: 17906 EO Index: 10047 — Dates Last Seen —
 Occ Rank: Unknown Element: 1988-08-26
 Origin: Natural/Native occurrence Site: 1988-08-26
 Presence: Presumed Extant
 Trend: Unknown
 Main Source: COCHRANE, S. 1988 (MAP) Record Last Updated: 1995-11-14

Quad Summary: IMPERIAL BEACH (3211751/011D)

County Summary: SAN DIEGO

Location: EAST OF UPPER PORTION OF DENNERY CANYON, JUST WEST OF ROBINHOOD RIDGE DEVELOPMENT AREA "ROBINHOOD HOMES".

Lat/Long: 32.58116° / -117.01078°	Township: 18S
UTM: Zone-11 N3604856 E498988	Range: 01W
Mapping Precision: SPECIFIC	Section: 29 Qtr: NW
Symbol Type: POINT	Meridian: S
Radius: 80 meters	Elevation: 300 ft

Deinandra conjugens

Otay tarplant

Element Code: PDAST4R070

_____ Status _____	NDDDB Element Ranks _____	Other Lists _____
Federal: Threatened	Global: G1	CNPS List: 1B
State: Endangered	State: S1.1	R-E-D Code: 3-3-2

Occurrence No. 26	Map Index: 26188	EO Index: 16505	_____ Dates Last Seen _____
Occ Rank: Fair			Element: 1993-06-XX
Origin: Natural/Native occurrence			Site: 1993-06-XX
Presence: Presumed Extant			
Trend: Unknown			
Main Source: DICE, J. 1993 (OBS)			Record Last Updated: 1995-10-27

Quad Summary: IMPERIAL BEACH (3211751/011D)

County Summary: SAN DIEGO

Location: SOUTH OF POGGI CANYON, APPROX 1 MI NE OF JCT OTAY VALLEY ROAD WITH I-805.

Lat/Long: 32.60562° / -117.02332°	Township: 18S
UTM: Zone-11 N3607567 E497811	Range: 01W
Mapping Precision: SPECIFIC	Section: 18 Qtr: XX
Symbol Type: POINT	Meridian: S
Radius: 80 meters	Elevation: 420 ft

Occurrence No. 27	Map Index: 26189	EO Index: 5056	_____ Dates Last Seen _____
Occ Rank: Fair			Element: 1994-06-23
Origin: Natural/Native occurrence			Site: 1994-06-23
Presence: Presumed Extant			
Trend: Unknown			
Main Source: GREER, K. 1994 (OBS)			Record Last Updated: 1994-09-27

Quad Summary: IMPERIAL BEACH (3211751/011D)

County Summary: SAN DIEGO

Location: DENNERY RANCH AND HIDDEN TRAILS PROPOSED DEVELOPMENT SITE, 0.9-1.0 MI SE OF JCT I-805 WITH OTAY VALLEY RD.

Lat/Long: 32.58580° / -117.02533°	Township: 18S
UTM: Zone-11 N3605370 E497622	Range: 01W
Mapping Precision: SPECIFIC	Section: 19 Qtr: S
Symbol Type: POLYGON	Meridian: S
Area: 3.5 ac	Elevation: 350 ft

Deinandra conjugens

Otay tarplant

Element Code: PDAST4R070

_____ Status _____ NDDB Element Ranks _____ Other Lists _____
 Federal: Threatened Global: G1 CNPS List: 1B
 State: Endangered State: S1.1 R-E-D Code: 3-3-2

Occurrence No. 28 Map Index: 26190 EO Index: 28089 Dates Last Seen _____
 Occ Rank: Fair Element: 1994-06-16
 Origin: Natural/Native occurrence Site: 1994-06-16
 Presence: Presumed Extant
 Trend: Unknown
 Main Source: GREER, K. 1994 (OBS) Record Last Updated: 1994-08-29

Quad Summary: IMPERIAL BEACH (3211751/011D)

County Summary: SAN DIEGO

Location: HIDDEN TRAILS PROPOSED DEVELOPMENT SITE, 1.4 MI SE OF JCT I-805 WITH OTAY VALLEY RD.

Lat/Long: 32.58136° / -117.01823° Township: 18S
 UTM: Zone-11 N3604878 E498289 Range: 01W
 Mapping Precision: SPECIFIC Section: 30 Qtr: NE
 Symbol Type: POINT Meridian: S
 Radius: 80 meters Elevation: 400 ft

Occurrence No. 29 Map Index: 26191 EO Index: 28090 Dates Last Seen _____
 Occ Rank: Good Element: 1994-06-16
 Origin: Natural/Native occurrence Site: 1994-06-16
 Presence: Presumed Extant
 Trend: Unknown
 Main Source: GREER, K. 1994 (OBS) Record Last Updated: 1994-09-08

Quad Summary: IMPERIAL BEACH (3211751/011D)

County Summary: SAN DIEGO

Location: CALIFORNIA TERRACES PROPOSED DEVELOPMENT SITE, 0.45-0.7 MI WSW OF JCT I-805 WITH PALM AVE.

Lat/Long: 32.58115° / -117.02690° Township: 18S
 UTM: Zone-11 N3604855 E497475 Range: 01W
 Mapping Precision: SPECIFIC Section: 30 Qtr: NW
 Symbol Type: POLYGON Meridian: S
 Area: 3.6 ac Elevation: 400 ft

Occurrence No. 39 Map Index: 37034 EO Index: 61646 Dates Last Seen _____
 Occ Rank: Poor Element: 1995-06-08
 Origin: Natural/Native occurrence Site: 1995-06-08
 Presence: Presumed Extant
 Trend: Unknown
 Main Source: MCMILLAN, B. 1995 (OBS) Record Last Updated: 2005-06-15

Quad Summary: IMPERIAL BEACH (3211751/011D)

County Summary: SAN DIEGO

Location: OTAY MESA ABOVE SPRING CANYON, SOUTHWEST OF HERITAGE RD AND 0.2 MI SOUTH OF OTAY MESA RD.

Lat/Long: 32.56541° / -117.00495° Township: 18S
 UTM: Zone-11 N3603110 E499535 Range: 01W
 Mapping Precision: SPECIFIC Section: 32 Qtr: NE
 Symbol Type: POINT Meridian: S
 Radius: 80 meters Elevation: 500 ft

Eryngium aristulatum var. parishii

San Diego button-celery

Element Code: PDAPI0Z042

Status	NDDDB Element Ranks	Other Lists
Federal: Endangered	Global: G5T2	CNPS List: 1B
State: Endangered	State: S2.1	R-E-D Code: 2-3-2

Occurrence No. 56 Map Index: 04362 EO Index: 20013 Dates Last Seen

Occ Rank: Unknown Element: 1981-XX-XX

Origin: Natural/Native occurrence Site: 1990-XX-XX

Presence: Presumed Extant

Trend: Unknown

Main Source: BEAUCHAMP, R. 1979 (LIT) Record Last Updated: 1993-04-23

Quad Summary: IMPERIAL BEACH (3211751/011D)

County Summary: SAN DIEGO

Location: APPROX 1.5 MI W OF BROWN FIELD, NW OF BM 537. OTAY MESA. INCL BEAUCHAMP J1.

Lat/Long: 32.57426° / -117.02188°	Township: 18S
UTM: Zone-11 N3604091 E497946	Range: 01W
Mapping Precision: SPECIFIC	Section: 30 Qtr: E
Symbol Type: POLYGON	Meridian: S
Area: 51.5 ac	Elevation: 500 ft

Occurrence No. 57 Map Index: 23088 EO Index: 17758 Dates Last Seen

Occ Rank: None Element: 1981-XX-XX

Origin: Natural/Native occurrence Site: 1990-XX-XX

Presence: Possibly Extirpated

Trend: Decreasing

Main Source: BEAUCHAMP, R. 1979 (LIT) Record Last Updated: 1993-06-02

Quad Summary: IMPERIAL BEACH (3211751/011D)

County Summary: SAN DIEGO

Location: OTAY MESA, 0.1 KM (0.06 MI) EAST OF DENNERY CYN AND 0.5 KM (0.3 MI) NORTH OF ROAD FROM SAN YSIDRO.

Lat/Long: 32.57246° / -117.00835°	Township: 18S
UTM: Zone-11 N3603891 E499216	Range: 01W
Mapping Precision: SPECIFIC	Section: 29 Qtr: SW
Symbol Type: POINT	Meridian: S
Radius: 80 meters	Elevation: 500 ft

Eryngium aristulatum var. parishii

San Diego button-celery

Element Code: PDAPI0Z042

_____ Status _____	NDDB Element Ranks _____	Other Lists _____
Federal: Endangered	Global: G5T2	CNPS List: 1B
State: Endangered	State: S2.1	R-E-D Code: 2-3-2

Occurrence No. 58 Map Index: 04391 EO Index: 17759 — Dates Last Seen —
 Occ Rank: Fair Element: 1990-XX-XX
 Origin: Natural/Native occurrence Site: 1990-XX-XX
 Presence: Presumed Extant
 Trend: Unknown
 Main Source: BEAUCHAMP, R. 1979 (LIT) Record Last Updated: 1993-06-02

Quad Summary: IMPERIAL BEACH (3211751/011D)

County Summary: SAN DIEGO

Location: NW OF BROWN FIELD, APPROX 1 MI NW OF BM 505. OTAY MESA, INCL BEAUCHAMP J5.

Lat/Long: 32.58117° / -117.01094°	Township: 18S
UTM: Zone-11 N3604857 E498973	Range: 01W
Mapping Precision: SPECIFIC	Section: 29 Qtr: NW
Symbol Type: POLYGON	Meridian: S
Area: 1.8 ac	Elevation: 460 ft

Occurrence No. 59 Map Index: 04376 EO Index: 20012 — Dates Last Seen —
 Occ Rank: Poor Element: 1990-09-07
 Origin: Natural/Native occurrence Site: 1990-09-07
 Presence: Presumed Extant
 Trend: Decreasing
 Main Source: BEAUCHAMP, R. 1979 (LIT) Record Last Updated: 1993-10-04

Quad Summary: IMPERIAL BEACH (3211751/011D)

County Summary: SAN DIEGO

Location: OTAY MESA, 0.5 MI SW OF EAST END MOODY CYN AND 0.5 MI WEST OF DILLON & FINGER CANYONS.

Lat/Long: 32.55309° / -117.01869°	Township: 19S
UTM: Zone-11 N3601744 E498245	Range: 01W
Mapping Precision: SPECIFIC	Section: 06 Qtr: NE
Symbol Type: POLYGON	Meridian: S
Area: 13.2 ac	Elevation: 480 ft

Occurrence No. 60 Map Index: 22885 EO Index: 12687 — Dates Last Seen —
 Occ Rank: Unknown Element: 1990-09-22
 Origin: Natural/Native occurrence Site: 1990-09-22
 Presence: Presumed Extant
 Trend: Unknown
 Main Source: BEAUCHAMP, R. 1979 (LIT) Record Last Updated: 1993-09-20

Quad Summary: IMPERIAL BEACH (3211751/011D)

County Summary: SAN DIEGO

Location: OTAY MESA. SE OF DILLON & FINGER CYNS ALONG SOUTH RIM OF SPRING CYNS.

Lat/Long: 32.55059° / -117.00965°	Township: 19S
UTM: Zone-11 N3601467 E499093	Range: 01W
Mapping Precision: SPECIFIC	Section: 05 Qtr: NW
Symbol Type: POLYGON	Meridian: S
Area: 5.0 ac	Elevation: 380 ft

Eryngium aristulatum var. parishii

San Diego button-celery

Element Code: PDAPI0Z042

_____ Status _____	NDDB Element Ranks	_____ Other Lists _____
Federal: Endangered	Global: G5T2	CNPS List: 1B
State: Endangered	State: S2.1	R-E-D Code: 2-3-2

Occurrence No. 61 Map Index: 04435 EO Index: 7788 — Dates Last Seen —
 Occ Rank: Poor Element: 2000-XX-XX
 Origin: Natural/Native occurrence Site: 2000-XX-XX
 Presence: Presumed Extant
 Trend: Decreasing
 Main Source: BEAUCHAMP, R. 1979 (LIT) Record Last Updated: 2004-03-01

Quad Summary: OTAY MESA (3211658/010C), IMPERIAL BEACH (3211751/011D)

County Summary: SAN DIEGO

Location: OTAY MESA NEAR BORDER, 0.4 KM (0.25 MI) SOUTH OF WRUCK CYN.

Lat/Long: 32.54617° / -117.00270°	Township: 19S
UTM: Zone-11 N3600977 E499746	Range: 01W
Mapping Precision: SPECIFIC	Section: 05 Qtr: SE
Symbol Type: POLYGON	Meridian: S
Area: 5.3 ac	Elevation: 460 ft

Occurrence No. 69 Map Index: 23090 EO Index: 7790 — Dates Last Seen —
 Occ Rank: Good Element: 1985-04-29
 Origin: Natural/Native occurrence Site: 1990-XX-XX
 Presence: Presumed Extant
 Trend: Unknown
 Main Source: BAUDER, E. 1985 (PERS) Record Last Updated: 1993-06-02

Quad Summary: IMPERIAL BEACH (3211751/011D)

County Summary: SAN DIEGO

Location: SOUTH RIM OF OTAY MESA, 0.7 KM (0.5 MI) NE OF BORDER CROSSING (PORT OF ENTRY).

Lat/Long: 32.54624° / -117.02307°	Township: 19S
UTM: Zone-11 N3600985 E497833	Range: 01W
Mapping Precision: SPECIFIC	Section: 06 Qtr: NE
Symbol Type: POLYGON	Meridian: S
Area: 2.1 ac	Elevation: 350 ft

Occurrence No. 71 Map Index: 22884 EO Index: 22449 — Dates Last Seen —
 Occ Rank: Fair Element: 1985-04-29
 Origin: Natural/Native occurrence Site: 1990-XX-XX
 Presence: Presumed Extant
 Trend: Unknown
 Main Source: BAUDER, E. 1985 (PERS) Record Last Updated: 1993-05-17

Quad Summary: IMPERIAL BEACH (3211751/011D)

County Summary: SAN DIEGO

Location: S OF SOUTH RIM OF OTAY MESA, APPROX 0.5 MI W OF WRUCK CYN.

Lat/Long: 32.54735° / -117.01499°	Township: 19S
UTM: Zone-11 N3601108 E498592	Range: 01W
Mapping Precision: SPECIFIC	Section: 06 Qtr: NE
Symbol Type: POINT	Meridian: S
Radius: 80 meters	Elevation: 360 ft

Eryngium aristulatum var. parishii

San Diego button-celery

Element Code: PDAPI0Z042

_____ Status _____	NDDB Element Ranks	_____ Other Lists _____
Federal: Endangered	Global: G5T2	CNPS List: 1B
State: Endangered	State: S2.1	R-E-D Code: 2-3-2

Occurrence No. 72	Map Index: 04420	EO Index: 17756	_____ Dates Last Seen _____
Occ Rank: Poor			Element: 1990-09-07
Origin: Natural/Native occurrence			Site: 1990-09-07
Presence: Presumed Extant			
Trend: Unknown			
Main Source: BRAMLET, D. 1985 (OBS)			Record Last Updated: 1993-06-02

Quad Summary: IMPERIAL BEACH (3211751/011D)

County Summary: SAN DIEGO

Location: OTAY MESA, 0.2 KM (0.15 MI) OF HEAD OF DENNERY CANYON.

Lat/Long: 32.57073° / -117.00676°	Township: 18S
UTM: Zone-11 N3603699 E499365	Range: 01W
Mapping Precision: SPECIFIC	Section: 29 Qtr: SW
Symbol Type: POINT	Meridian: S
Radius: 80 meters	Elevation: 500 ft

Occurrence No. 80	Map Index: 04333	EO Index: 12673	_____ Dates Last Seen _____
Occ Rank: Unknown			Element: 1981-05-04
Origin: Natural/Native occurrence			Site: 1990-XX-XX
Presence: Presumed Extant			
Trend: Unknown			
Main Source: SCHEIDT, V. 1981 (OBS)			Record Last Updated: 1993-06-02

Quad Summary: IMPERIAL BEACH (3211751/011D)

County Summary: SAN DIEGO

Location: WEST EDGE OF OTAY MESA, 1.1 KM (0.7 MI) EAST OF SAN YSIDRO ACADEMY.

Lat/Long: 32.55766° / -117.03299°	Township: 18S
UTM: Zone-11 N3602251 E496902	Range: 02W
Mapping Precision: SPECIFIC	Section: 36 Qtr: SE
Symbol Type: POINT	Meridian: M
Radius: 80 meters	Elevation: 380 ft

Occurrence No. 89	Map Index: 23091	EO Index: 7786	_____ Dates Last Seen _____
Occ Rank: Excellent			Element: 1995-05-17
Origin: Natural/Native occurrence			Site: 1995-05-17
Presence: Presumed Extant			
Trend: Unknown			
Main Source: MISTRETTO, O. & P. FRITSCH 1990 (OBS)			Record Last Updated: 1993-06-02

Quad Summary: OTAY MESA (3211658/010C), IMPERIAL BEACH (3211751/011D)

County Summary: SAN DIEGO

Location: SOUTH EDGE OF OTAY MESA, 0.3 KM (0.2 MI) NORTH OF WRUCK CANYON AND FROM SPRING CANYON EAST 0.5 KM (0.3 MI).

Lat/Long: 32.55163° / -117.00275°	Township: 19S
UTM: Zone-11 N3601582 E499742	Range: 01W
Mapping Precision: SPECIFIC	Section: 05 Qtr: NE
Symbol Type: POLYGON	Meridian: S
Area: 11.8 ac	Elevation: 350 ft

Fremontodendron mexicanum

Mexican flannelbush

Element Code: PDSTE03020

----- Status ----- NDDDB Element Ranks ----- Other Lists -----

Federal: Endangered

Global: G2

CNPS List: 1B

State: Rare

State: S2.1

R-E-D Code: 3-3-2

Occurrence No. 8

Map Index: 04076

EO Index: 22118

----- Dates Last Seen -----

Occ Rank: Unknown

Element: 1875-03-XX

Origin: Natural/Native occurrence

Site: 1875-03-XX

Presence: Presumed Extant

Trend: Unknown

Main Source: DUNN #7222 SD (HERB)

Record Last Updated: 1996-06-24

Quad Summary: IMPERIAL BEACH (3211751/011D)

County Summary: MEXICO, SAN DIEGO

Location: BORDER FIELD MONUMENT, SAN DIEGO COUNTY.

Lat/Long: 32.53686° / -117.12200°

Township: 19S

UTM: Zone-11 N3599951 E488543

Range: 02W

Mapping Precision: NON-SPECIFIC

Section: 07 Qtr: XX

Symbol Type: POINT

Meridian: S

Radius: 1/5 mile

Elevation:

Orcuttia californica

California Orcutt grass

Element Code: PMPOA4G010

_____ Status _____	NDDB Element Ranks _____	Other Lists _____
Federal: Endangered	Global: G2	CNPS List: 1B
State: Endangered	State: S2.1	R-E-D Code: 3-3-2

Occurrence No. 7 Map Index: 04377 EO Index: 22416 — Dates Last Seen —
 Occ Rank: Unknown Element: 1979-04-12
 Origin: Natural/Native occurrence Site: 2001-05-23
 Presence: Presumed Extant
 Trend: Unknown
 Main Source: HOLLAND & CASS 1979 (OBS) Record Last Updated: 2002-02-04

Quad Summary: IMPERIAL BEACH (3211751/011D)

County Summary: SAN DIEGO

Location: LAT 32 33 10". LONG 117 01 30"(APPROX 1/4 MI SW OF FINGER CANYON, NORTH OF SOUTH RIM, OTAY MESA.

Lat/Long: 32.55089° / -117.01808°	Township: 19S
UTM: Zone-11 N3601500 E498302	Range: 01W
Mapping Precision: NON-SPECIFIC	Section: 06 Qtr: NE
Symbol Type: POINT	Meridian: S
Radius: 1/5 mile	Elevation: 480 ft

Occurrence No. 8 Map Index: 04376 EO Index: 22543 — Dates Last Seen —
 Occ Rank: Poor Element: 1990-08-03
 Origin: Natural/Native occurrence Site: 2001-05-23
 Presence: Presumed Extant
 Trend: Decreasing
 Main Source: BEAUCHAMP, R. 1979 (MAP) Record Last Updated: 2002-02-01

Quad Summary: IMPERIAL BEACH (3211751/011D)

County Summary: SAN DIEGO

Location: E OF SAN YSIDRO, W OF FINGER CYN, 0.9 AIR MI NE OF PORT OF ENTRY, S OTAY MESA.

Lat/Long: 32.55309° / -117.01869°	Township: 19S
UTM: Zone-11 N3601744 E498245	Range: 01W
Mapping Precision: SPECIFIC	Section: 06 Qtr: NE
Symbol Type: POLYGON	Meridian: S
Area: 13.2 ac	Elevation: 480 ft

Occurrence No. 9 Map Index: 22884 EO Index: 14420 — Dates Last Seen —
 Occ Rank: Poor Element: 1990-08-03
 Origin: Natural/Native occurrence Site: 2001-05-23
 Presence: Presumed Extant
 Trend: Decreasing
 Main Source: BEAUCHAMP, R. 1979 (MAP) Record Last Updated: 2002-02-01

Quad Summary: IMPERIAL BEACH (3211751/011D)

County Summary: SAN DIEGO

Location: E OF SAN YSIDRO, N SIDE OF SPRING CYN, S RIM OF OTAY MESA.

Lat/Long: 32.54735° / -117.01499°	Township: 19S
UTM: Zone-11 N3601108 E498592	Range: 01W
Mapping Precision: SPECIFIC	Section: 06 Qtr: NE
Symbol Type: POINT	Meridian: S
Radius: 80 meters	Elevation: 360 ft

Orcuttia californica

California Orcutt grass

Element Code: PMPOA4G010

_____ Status _____	_____ NDDB Element Ranks _____	_____ Other Lists _____
Federal: Endangered	Global: G2	CNPS List: 1B
State: Endangered	State: S2.1	R-E-D Code: 3-3-2

Occurrence No. 10	Map Index: 22885	EO Index: 22446	_____ Dates Last Seen _____
Occ Rank: Unknown			Element: 1985-04-29
Origin: Natural/Native occurrence			Site: 1990-XX-XX
Presence: Presumed Extant			
Trend: Unknown			
Main Source: BEAUCHAMP, R. 1979 (MAP)			Record Last Updated: 1993-09-20

Quad Summary: IMPERIAL BEACH (3211751/011D)

County Summary: SAN DIEGO

Location: EAST OF SAN YSIDRO. SPRING CANYON SOUTH OF DILLON CANYON, SOUTH RIM OF OTAY MESA.

Lat/Long: 32.55059° / -117.00965°	Township: 19S
UTM: Zone-11 N3601467 E499093	Range: 01W
Mapping Precision: SPECIFIC	Section: 05 Qtr: NW
Symbol Type: POLYGON	Meridian: S
Area: 5.0 ac	Elevation: 380 ft

* SENSITIVE *

Occurrence No. 11	Map Index: 04442	EO Index: 7787	_____ Dates Last Seen _____
Occ Rank: Fair			Element: 1981-08-18
Origin: Natural/Native occurrence			Site: 2001-05-23
Presence: Presumed Extant			
Trend: Unknown			
Main Source: COOLEY, G. 1981 (MAP)			Record Last Updated: 2002-02-20

Quad Summary: OTAY MESA (3211658/010C), IMPERIAL BEACH (3211751/011D)

County Summary: SAN DIEGO

Location: *SENSITIVE* Location information suppressed.

* SENSITIVE *

Lat/Long: /	Township:
UTM:	Range:
Mapping Precision:	Section: Qtr:
Symbol Type:	Meridian:
Radius:	Elevation:

Orcuttia californica

California Orcutt grass

Element Code: PMPOA4G010

_____ Status _____	_____ NDDB Element Ranks _____	_____ Other Lists _____
Federal: Endangered	Global: G2	CNPS List: 1B
State: Endangered	State: S2.1	R-E-D Code: 3-3-2

Occurrence No. 23	Map Index: 04373	EO Index: 22405	— Dates Last Seen —
Occ Rank: Poor			Element: 1976-06-14
Origin: Natural/Native occurrence			Site: 2001-05-23
Presence: Presumed Extant			
Trend: Unknown			
Main Source: MORAN, R. #16090 UCLA (HERB)			Record Last Updated: 2002-02-01

Quad Summary: IMPERIAL BEACH (3211751/011D)

County Summary: MEXICO, SAN DIEGO

Location: 1 MI E OF SAN YSIDRO AT "E-4 1/2 POND". 1/2 MI E OF PORT OF ENTRY, ALONG S SIDE OF RD.

Lat/Long: 32.54393° / -117.01975°	Township: 19S
UTM: Zone-11 N3600729 E498145	Range: 01W
Mapping Precision: NON-SPECIFIC	Section: 06 Qtr: SE
Symbol Type: POINT	Meridian: S
Radius: 1/5 mile	Elevation: 328 ft

Occurrence No. 25	Map Index: 23090	EO Index: 7791	— Dates Last Seen —
Occ Rank: Good			Element: 1985-04-29
Origin: Natural/Native occurrence			Site: 1990-XX-XX
Presence: Presumed Extant			
Trend: Unknown			
Main Source: BAUDER, E. 1985 (PERS)			Record Last Updated: 1993-06-02

Quad Summary: IMPERIAL BEACH (3211751/011D)

County Summary: SAN DIEGO

Location: SOUTH RIM OF OTAY MESA, 0.7 KM (0.5 MI) NE OF BORDER CROSSING (PORT OF ENTRY).

Lat/Long: 32.54624° / -117.02307°	Township: 19S
UTM: Zone-11 N3600985 E497833	Range: 01W
Mapping Precision: SPECIFIC	Section: 06 Qtr: NE
Symbol Type: POLYGON	Meridian: S
Area: 2.1 ac	Elevation: 350 ft

Pogogyne nudiuscula

Otay Mesa mint

Element Code: PDLAM1K040

Status	NDDB Element Ranks	Other Lists
Federal: Endangered State: Endangered	Global: G1 State: S1.1	CNPS List: 1B R-E-D Code: 3-3-2

Occurrence No. 8 Map Index: 58701 EO Index: 18046 — Dates Last Seen —
Occ Rank: Poor Element: 1996-XX-XX
Origin: Natural/Native occurrence Site: 1996-XX-XX
Presence: Presumed Extant
Trend: Decreasing
Main Source: MCMILLAN, B. 1995 (OBS) Record Last Updated: 2005-08-18

Quad Summary: OTAY MESA (3211658/010C), IMPERIAL BEACH (3211751/011D)

County Summary: SAN DIEGO

Location: WESTERN OTAY MESA, ALONG OTAY MESA ROAD, NORTH OF SPRING CANYON AND SOUTH OF DENNERY CANYON.

Lat/Long: 32.56542° / -117.00497°	Township: 18S
UTM: Zone-11 N3603111 E499533	Range: 01W
Mapping Precision: NON-SPECIFIC	Section: 32 Qtr: NE
Symbol Type: POLYGON	Meridian: S
Area: 58.5 ac	Elevation: 500 ft

Rallus longirostris levipes

light-footed clapper rail

Element Code: ABNME05014

_____ Status _____ NDDB Element Ranks _____ Other Lists _____
 Federal: Endangered Global: G5T1T2 CDFG Status:
 State: Endangered State: S1

Occurrence No. 11 Map Index: 04130 EO Index: 25884 _____ Dates Last Seen _____
 Occ Rank: Unknown Element: 1985-XX-XX
 Origin: Natural/Native occurrence Site: 1985-XX-XX
 Presence: Presumed Extant
 Trend: Unknown
 Main Source: WILBUR, S. 1977 (LIT) Record Last Updated: 2002-10-17

Quad Summary: IMPERIAL BEACH (3211751/011D)

County Summary: SAN DIEGO

Location: SAN DIEGO BAY MARSHES, SOUTHERN END OF SAN DIEGO BAY.

Lat/Long: 32.59687° / -117.10276° Township: 18S
 UTM: Zone-11 N3606602 E490357 Range: 02W
 Mapping Precision: NON-SPECIFIC Section: 20 Qtr: XX
 Symbol Type: POLYGON Meridian: S
 Area: 1,331.9 ac Elevation:

Occurrence No. 12 Map Index: 04077 EO Index: 25885 _____ Dates Last Seen _____
 Occ Rank: Unknown Element: 1997-05-XX
 Origin: Natural/Native occurrence Site: 1997-05-XX
 Presence: Presumed Extant
 Trend: Increasing
 Main Source: WILBUR, S. 1977 (LIT) Record Last Updated: 1998-12-04

Quad Summary: IMPERIAL BEACH (3211751/011D)

County Summary: SAN DIEGO

Location: TIJUANA RIVER ESTUARY INCLUDING ONEONTA SLOUGH.

Lat/Long: / Township:
 UTM: Range:
 Mapping Precision: Section: Qtr:
 Symbol Type: Meridian:
 Radius: Elevation:

Occurrence No. 18 Map Index: 04068 EO Index: 13613 _____ Dates Last Seen _____
 Occ Rank: Unknown Element: 1988-XX-XX
 Origin: Natural/Native occurrence Site: 1988-XX-XX
 Presence: Presumed Extant
 Trend: Decreasing
 Main Source: MASSEY, B. 1985 (OBS) Record Last Updated: 1995-11-02

Quad Summary: IMPERIAL BEACH (3211751/011D)

County Summary: SAN DIEGO

Location: SW PORTION SAN DIEGO BAY, EAST OF SILVER STRAND BLVD, 1.5 MILES NORTH OF PALM AVENUE, IMPERIAL BEACH.

Lat/Long: 32.60411° / -117.12353° Township: 18S
 UTM: Zone-11 N3607406 E488409 Range: 02W
 Mapping Precision: NON-SPECIFIC Section: XX Qtr: XX
 Symbol Type: POINT Meridian: S
 Radius: 1/5 mile Elevation:

Sterna antillarum browni

California least tern

Element Code: ABNNM08103

_____ **Status** _____ **NDDB Element Ranks** _____ **Other Lists** _____
Federal: Endangered **Global:** G4T2T3Q **CDFG Status:**
State: Endangered **State:** S2S3

Occurrence No. 37 **Map Index:** 04025 **EO Index:** 25676 **— Dates Last Seen —**
Occ Rank: None **Element:** 1977-XX-XX
Origin: Natural/Native occurrence **Site:** 1978-XX-XX
Presence: Extirpated
Trend: Unknown
Main Source: ATWOOD, J. ET AL 1977 (LIT) **Record Last Updated:** 1996-01-11

Quad Summary: IMPERIAL BEACH (3211751/011D), POINT LOMA (3211762/011B)

County Summary: SAN DIEGO

Location: CORONADO CAYS IN HOUSING DEVELOPMENT EAST OF SILVER STRAND BLVD, NORTH OF US NAVAL RADIO STATION.

Lat/Long: 32.62450° / -117.13282° **Township:** 99X
UTM: Zone-11 N3609668 E487540 **Range:** 99X
Mapping Precision: NON-SPECIFIC **Section:** XX **Qtr:** XX
Symbol Type: POINT **Meridian:** S
Radius: 1/5 mile **Elevation:** 10 ft

Occurrence No. 38 **Map Index:** 04142 **EO Index:** 25674 **— Dates Last Seen —**
Occ Rank: Unknown **Element:** 1977-XX-XX
Origin: Natural/Native occurrence **Site:** 1977-XX-XX
Presence: Presumed Extant
Trend: Unknown
Main Source: ATWOOD, J. ET AL 1977 (LIT) **Record Last Updated:** 1996-01-02

Quad Summary: IMPERIAL BEACH (3211751/011D)

County Summary: SAN DIEGO

Location: S SAN DIEGO BAY SALTWORKS, SALT POND DIKES NEAR CENTER OF SALTWORKS COMPLEX.

Lat/Long: 32.59644° / -117.10614° **Township:** 18S
UTM: Zone-11 N3606554 E490039 **Range:** 02W
Mapping Precision: NON-SPECIFIC **Section:** XX **Qtr:** XX
Symbol Type: POINT **Meridian:** S
Radius: 1/5 mile **Elevation:**

Sterna antillarum browni

California least tern

Element Code: ABNNM08103

_____ Status _____	NDDB Element Ranks	_____ Other Lists _____
Federal: Endangered	Global: G4T2T3Q	CDFG Status:
State: Endangered	State: S2S3	

Occurrence No. 39	Map Index: 04036	EO Index: 25673	— Dates Last Seen —
Occ Rank: Unknown			Element: 1996-08-29
Origin: Natural/Native occurrence			Site: 1996-08-29
Presence: Presumed Extant			
Trend: Fluctuating			
Main Source: ATWOOD, J. ET AL 1977 (LIT)			Record Last Updated: 1998-12-18

Quad Summary: IMPERIAL BEACH (3211751/011D)

County Summary: SAN DIEGO

Location: MOUTH OF TIJUANA RIVER, BORDER FIELD STATE PARK & TIJUANA SLOUGH NWR.

Lat/Long: 32.55700° / -117.12970°	Township: 18S
UTM: Zone-11 N3602185 E487823	Range: 02W
Mapping Precision: NON-SPECIFIC	Section: 31 Qtr: XX
Symbol Type: POLYGON	Meridian: S
Area: 19.3 ac	Elevation: 5 ft

Occurrence No. 75	Map Index: 04117	EO Index: 25648	— Dates Last Seen —
Occ Rank: Unknown			Element: 1988-XX-XX
Origin: Natural/Native occurrence			Site: 1988-XX-XX
Presence: Presumed Extant			
Trend: Unknown			
Main Source: MASSEY, B. 1988 (LIT)			Record Last Updated: 1998-01-16

Quad Summary: IMPERIAL BEACH (3211751/011D)

County Summary:

Location: CHULA VISTA WILDLIFE REFUGE.

Lat/Long: 32.61505° / -117.11003°	Township: 18S
UTM: Zone-11 N3608618 E489676	Range: 02W
Mapping Precision: NON-SPECIFIC	Section: XX Qtr: XX
Symbol Type: POINT	Meridian: S
Radius: 1/5 mile	Elevation:

Vireo bellii pusillus

least Bell's vireo

Element Code: ABPBW01114

----- Status ----- NDDB Element Ranks ----- Other Lists -----
 Federal: Endangered Global: G5T2 CDFG Status:
 State: Endangered State: S2

Occurrence No. 76 Map Index: 04371 EO Index: 13277 Dates Last Seen
 Occ Rank: Unknown Element: 1984-07-18
 Origin: Natural/Native occurrence Site: 1984-07-18
 Presence: Presumed Extant
 Trend: Unknown
 Main Source: WIER, E. 1984 (OBS) Record Last Updated: 1989-08-10

Quad Summary: IMPERIAL BEACH (3211751/011D)

County Summary: SAN DIEGO

Location: OTAY RIV VALLEY, 1 MI E OF I-805, VICINITY OF CHULA VISTA.

Lat/Long: 32.59172° / -117.01892° Township: 18S
 UTM: Zone-11 N3606026 E498224 Range: 01W
 Mapping Precision: NON-SPECIFIC Section: 19 Qtr: NE
 Symbol Type: POINT Meridian: S
 Radius: 1/5 mile Elevation: 100 ft

Occurrence No. 83 Map Index: 04290 EO Index: 24977 Dates Last Seen
 Occ Rank: Unknown Element: 1984-XX-XX
 Origin: Natural/Native occurrence Site: 1984-XX-XX
 Presence: Presumed Extant
 Trend: Unknown
 Main Source: U.S. FISH & WILDLIFE SERVICE 1985 (PERS) Record Last Updated: 1989-08-10

Quad Summary: IMPERIAL BEACH (3211751/011D)

County Summary: SAN DIEGO

Location: TIJUANA RIVER NEAR LARSEN FIELD.

Lat/Long: 32.54560° / -117.04614° Township: 19S
 UTM: Zone-11 N3600915 E495667 Range: 02W
 Mapping Precision: NON-SPECIFIC Section: 01 Qtr: W
 Symbol Type: POINT Meridian: S
 Radius: 1/5 mile Elevation: 40 ft

Occurrence No. 95 Map Index: 04236 EO Index: 9613 Dates Last Seen
 Occ Rank: Excellent Element: 2001-07-30
 Origin: Natural/Native occurrence Site: 2001-07-30
 Presence: Presumed Extant
 Trend: Increasing
 Main Source: KUS, B. 1991 (OBS) Record Last Updated: 2004-07-13

Quad Summary: IMPERIAL BEACH (3211751/011D)

County Summary: SAN DIEGO

Location: TIJUANA RIVER, FROM DAIRY MART ROAD WEST TO THE ESTUARY, WEST OF SAN YSIDRO.

Lat/Long: 32.55375° / -117.09241° Township: 19S
 UTM: Zone-11 N3601822 E491323 Range: 02W
 Mapping Precision: NON-SPECIFIC Section: 04 Qtr: XX
 Symbol Type: POLYGON Meridian: S
 Area: 593.3 ac Elevation: 20 ft

Vireo bellii pusillus

least Bell's vireo

Element Code: ABPBW01114

_____ Status _____	NDDB Element Ranks	_____ Other Lists _____
Federal: Endangered	Global: G5T2	CDFG Status:
State: Endangered	State: S2	

Occurrence No. 212	Map Index: 47089	EO Index: 49481	— Dates Last Seen —
Occ Rank: Unknown			Element: 2001-07-14
Origin: Natural/Native occurrence			Site: 2001-07-14
Presence: Presumed Extant			
Trend: Unknown			
Main Source: GRIFFITH, J. 2001 (LIT)			Record Last Updated: 2004-07-13

Quad Summary: IMPERIAL BEACH (3211751/011D)

County Summary: SAN DIEGO

Location: "BUNKER HILL", WEST OF GOAT CANYON; 0.6 - 1.0 MILE EAST OF PACIFIC OCEAN, JUST NORTH OF THE CALIFORNIA-MEXICO BORDER.

Lat/Long: 32.54033° / -117.11130°	Township: 19S
UTM: Zone-11 N3600335 E489548	Range: 02W
Mapping Precision: NON-SPECIFIC	Section: 05 Qtr: XX
Symbol Type: POLYGON	Meridian: S
Area: 133.7 ac	Elevation: 15 ft

Occurrence No. 213	Map Index: 49482	EO Index: 49482	— Dates Last Seen —
Occ Rank: Unknown			Element: 2001-07-14
Origin: Natural/Native occurrence			Site: 2001-07-14
Presence: Presumed Extant			
Trend: Unknown			
Main Source: GRIFFITH, J. 2001 (LIT)			Record Last Updated: 2002-11-25

Quad Summary: IMPERIAL BEACH (3211751/011D)

County Summary: SAN DIEGO

Location: SMUGGLER'S GULCH; BETWEEN MONUMENT ROAD AND THE CALIFORNIA-MEXICO BORDER.

Lat/Long: 32.54015° / -117.08570°	Township: 19S
UTM: Zone-11 N3600313 E491952	Range: 02W
Mapping Precision: NON-SPECIFIC	Section: 04 Qtr: XX
Symbol Type: POINT	Meridian: S
Radius: 1/10 mile	Elevation: 100 ft

Crowe, Debra/SAC

From: Ayoola_Folarin@fws.gov
Sent: Tuesday, June 20, 2006 4:22 PM
To: Crowe, Debra/SAC
Subject: Species List for South Bay Power Plant Project

Hello,
 Federally listed endangered or threatened species known to occur in the vicinity of the power plant are listed below. I will complete a letter providing all of the requested information by the end of the week.

Thank you again for your help and your patience,
 -Ayoola Folarin.

Listed Endangered, Threatened and Proposed Species that may occur in South Bay:

Common Name	Scientific Name	Status
<u>BIRDS</u>		
western snowy plover	<i>Charadrius alexandrinus nivosus</i>	T
California least tern	<i>Sterna antillarum browni</i>	E
brown pelican	<i>Pelecanus occidentalis</i>	E
California gnatcatcher	<i>Polioptila californica californica</i>	T
light-footed clapper rail	<i>Rallus longirostris levipes</i>	E
<u>REPTILES</u>		
Pacific green sea turtle	<i>Chelonia mydas</i>	T
<u>PLANTS</u>		
salt marsh birds beak	<i>Cordylanthus maritimus ssp. maritimus</i>	E

T=Threatened
 E=Endangered

Ayoola Folarin
 Fish and Wildlife Biologist

U.S. Fish and Wildlife Service, Carlsbad Office
 6010 Hidden Valley Road
 Carlsbad, California 92011
 760.431.9440

6/20/2006