

Appendix D

Biological Resources Data



Selected Elements by Scientific Name

California Department of Fish and Wildlife

California Natural Diversity Database



Query Criteria: Quad (Carmichael (3812153) OR Citrus Heights (3812163) OR Clarksburg (3812145) OR Davis (3812156) OR Elk Grove (3812143) OR Florin (3812144) OR Grays Bend (3812166) OR Rio Linda (3812164) OR Sacramento East (3812154) OR Sacramento West (3812155) OR Saxon (3812146) OR Taylor Monument (3812165))

Species	Element Code	Federal Status	State Status	Global Rank	State Rank	Rare Plant Rank/CDFW SSC or FP
<i>Accipiter cooperii</i> Cooper's hawk	ABNKC12040	None	None	G5	S4	WL
<i>Agelaius tricolor</i> tricolored blackbird	ABPBXB0020	None	Candidate Endangered	G2G3	S1S2	SSC
<i>Ammodramus savannarum</i> grasshopper sparrow	ABPBXA0020	None	None	G5	S3	SSC
<i>Andrena subapasta</i> an andrenid bee	IIHYM35210	None	None	G1G2	S1S2	
<i>Antrozous pallidus</i> pallid bat	AMACC10010	None	None	G5	S3	SSC
<i>Aquila chrysaetos</i> golden eagle	ABNKC22010	None	None	G5	S3	FP
<i>Archoplites interruptus</i> Sacramento perch	AFCQB07010	None	None	G2G3	S1	SSC
<i>Ardea alba</i> great egret	ABNGA04040	None	None	G5	S4	
<i>Ardea herodias</i> great blue heron	ABNGA04010	None	None	G5	S4	
<i>Astragalus tener var. ferrisiae</i> Ferris' milk-vetch	PDFAB0F8R3	None	None	G2T1	S1	1B.1
<i>Astragalus tener var. tener</i> alkali milk-vetch	PDFAB0F8R1	None	None	G2T2	S2	1B.2
<i>Athene cunicularia</i> burrowing owl	ABNSB10010	None	None	G4	S3	SSC
<i>Atriplex cordulata var. cordulata</i> heartscale	PDCHE040B0	None	None	G3T2	S2	1B.2
<i>Atriplex depressa</i> brittlescale	PDCHE042L0	None	None	G2	S2	1B.2
<i>Bombus crotchii</i> Crotch bumble bee	IIHYM24480	None	None	G3G4	S1S2	
<i>Bombus occidentalis</i> western bumble bee	IIHYM24250	None	None	G2G3	S1	
<i>Branchinecta conservatio</i> Conservancy fairy shrimp	ICBRA03010	Endangered	None	G2	S2	
<i>Branchinecta lynchi</i> vernal pool fairy shrimp	ICBRA03030	Threatened	None	G3	S3	



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<i>Branchinecta mesovallensis</i> midvalley fairy shrimp	ICBRA03150	None	None	G2	S2S3	
<i>Buteo regalis</i> ferruginous hawk	ABNKC19120	None	None	G4	S3S4	WL
<i>Buteo swainsoni</i> Swainson's hawk	ABNKC19070	None	Threatened	G5	S3	
<i>Carex comosa</i> bristly sedge	PMCYP032Y0	None	None	G5	S2	2B.1
<i>Charadrius alexandrinus nivosus</i> western snowy plover	ABNNB03031	Threatened	None	G3T3	S2S3	SSC
<i>Charadrius montanus</i> mountain plover	ABNNB03100	None	None	G3	S2S3	SSC
<i>Chloropyron palmatum</i> palmate-bracted salty bird's-beak	PDSCR0J0J0	Endangered	Endangered	G1	S1	1B.1
<i>Cicindela hirticollis abrupta</i> Sacramento Valley tiger beetle	IICOL02106	None	None	G5TH	SH	
<i>Coccyzus americanus occidentalis</i> western yellow-billed cuckoo	ABNRB02022	Threatened	Endangered	G5T2T3	S1	
<i>Cuscuta obtusiflora var. glandulosa</i> Peruvian dodder	PDCUS01111	None	None	G5T4T5	SH	2B.2
<i>Desmocerus californicus dimorphus</i> valley elderberry longhorn beetle	IICOL48011	Threatened	None	G3T2	S2	
<i>Downingia pusilla</i> dwarf downingia	PDCAM060C0	None	None	GU	S2	2B.2
<i>Dumontia oregonensis</i> hairy water flea	ICBRA23010	None	None	G1G3	S1	
<i>Egretta thula</i> snowy egret	ABNGA06030	None	None	G5	S4	
<i>Elanus leucurus</i> white-tailed kite	ABNKC06010	None	None	G5	S3S4	FP
<i>Elderberry Savanna</i> Elderberry Savanna	CTT63440CA	None	None	G2	S2.1	
<i>Emys marmorata</i> western pond turtle	ARAAD02030	None	None	G3G4	S3	SSC
<i>Eryngium jepsonii</i> Jepson's coyote-thistle	PDAP10Z130	None	None	G2	S2	1B.2
<i>Extriplex joaquinana</i> San Joaquin spearscale	PDCHE041F3	None	None	G2	S2	1B.2
<i>Falco columbarius</i> merlin	ABNKD06030	None	None	G5	S3S4	WL
<i>Fritillaria agrestis</i> stinkbells	PMLIL0V010	None	None	G3	S3	4.2



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Species	Element Code	Federal Status	State Status	Global Rank	State Rank	Rare Plant Rank/CDFW SSC or FP
<i>Gratiola heterosepala</i> Boggs Lake hedge-hyssop	PDSCR0R060	None	Endangered	G2	S2	1B.2
<i>Great Valley Cottonwood Riparian Forest</i> Great Valley Cottonwood Riparian Forest	CTT61410CA	None	None	G2	S2.1	
<i>Great Valley Valley Oak Riparian Forest</i> Great Valley Valley Oak Riparian Forest	CTT61430CA	None	None	G1	S1.1	
<i>Hibiscus lasiocarpus var. occidentalis</i> woolly rose-mallow	PDMAL0H0R3	None	None	G5T3	S3	1B.2
<i>Hydrochara rickseckeri</i> Ricksecker's water scavenger beetle	IICOL5V010	None	None	G2?	S2?	
<i>Juglans hindsii</i> Northern California black walnut	PDJUG02040	None	None	G1	S1	1B.1
<i>Juncus leiospermus var. ahartii</i> Ahart's dwarf rush	PMJUN011L1	None	None	G2T1	S1	1B.2
<i>Lasionycteris noctivagans</i> silver-haired bat	AMACC02010	None	None	G5	S3S4	
<i>Lasiurus cinereus</i> hoary bat	AMACC05030	None	None	G5	S4	
<i>Legenere limosa</i> legenere	PDCAM0C010	None	None	G2	S2	1B.1
<i>Lepidium latipes var. heckardii</i> Heckard's pepper-grass	PDBRA1M0K1	None	None	G4T1	S1	1B.2
<i>Lepidurus packardii</i> vernal pool tadpole shrimp	ICBRA10010	Endangered	None	G4	S3S4	
<i>Lilaeopsis masonii</i> Mason's lilaeopsis	PDAPI19030	None	Rare	G2	S2	1B.1
<i>Linderiella occidentalis</i> California linderiella	ICBRA06010	None	None	G2G3	S2S3	
<i>Melospiza melodia</i> song sparrow ("Modesto" population)	ABPBXA3010	None	None	G5	S3?	SSC
<i>Myrmosula pacifica</i> Antioch multilid wasp	IIHYM15010	None	None	GH	SH	
<i>Navarretia leucocephala ssp. bakeri</i> Baker's navarretia	PDPLM0C0E1	None	None	G4T2	S2	1B.1
<i>Neostaphia colusana</i> Colusa grass	PMPOA4C010	Threatened	Endangered	G1	S1	1B.1
<i>Northern Claypan Vernal Pool</i> Northern Claypan Vernal Pool	CTT44120CA	None	None	G1	S1.1	
<i>Northern Hardpan Vernal Pool</i> Northern Hardpan Vernal Pool	CTT44110CA	None	None	G3	S3.1	
<i>Northern Volcanic Mud Flow Vernal Pool</i> Northern Volcanic Mud Flow Vernal Pool	CTT44132CA	None	None	G1	S1.1	



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Species	Element Code	Federal Status	State Status	Global Rank	State Rank	Rare Plant Rank/CDFW SSC or FP
<i>Nycticorax nycticorax</i> black-crowned night heron	ABNGA11010	None	None	G5	S4	
<i>Oncorhynchus mykiss irideus</i> steelhead - Central Valley DPS	AFCHA0209K	Threatened	None	G5T2Q	S2	
<i>Oncorhynchus tshawytscha</i> chinook salmon - Central Valley spring-run ESU	AFCHA0205A	Threatened	Threatened	G5	S1	
<i>Oncorhynchus tshawytscha</i> chinook salmon - Sacramento River winter-run ESU	AFCHA0205B	Endangered	Endangered	G5	S1	
<i>Orcuttia tenuis</i> slender Orcutt grass	PMPOA4G050	Threatened	Endangered	G2	S2	1B.1
<i>Orcuttia viscida</i> Sacramento Orcutt grass	PMPOA4G070	Endangered	Endangered	G1	S1	1B.1
<i>Phalacrocorax auritus</i> double-crested cormorant	ABNFD01020	None	None	G5	S4	WL
<i>Plagiobothrys hystriculus</i> bearded popcornflower	PDBOR0V0H0	None	None	G2	S2	1B.1
<i>Plegadis chihi</i> white-faced ibis	ABNGE02020	None	None	G5	S3S4	WL
<i>Pogonichthys macrolepidotus</i> Sacramento splittail	AFCJB34020	None	None	GNR	S3	SSC
<i>Progne subis</i> purple martin	ABPAU01010	None	None	G5	S3	SSC
<i>Puccinellia simplex</i> California alkali grass	PMPOA53110	None	None	G3	S2	1B.2
<i>Riparia riparia</i> bank swallow	ABPAU08010	None	Threatened	G5	S2	
<i>Sagittaria sanfordii</i> Sanford's arrowhead	PMALI040Q0	None	None	G3	S3	1B.2
<i>Spea hammondi</i> western spadefoot	AAABF02020	None	None	G3	S3	SSC
<i>Spirinchus thaleichthys</i> longfin smelt	AFCHB03010	Candidate	Threatened	G5	S1	SSC
<i>Symphotrichum lentum</i> Suisun Marsh aster	PDASTE8470	None	None	G2	S2	1B.2
<i>Taxidea taxus</i> American badger	AMAJF04010	None	None	G5	S3	SSC
<i>Thamnophis gigas</i> giant gartersnake	ARADB36150	Threatened	Threatened	G2	S2	
<i>Trifolium hydrophilum</i> saline clover	PDFAB400R5	None	None	G2	S2	1B.2
<i>Tuctoria mucronata</i> Crampton's tuctoria or Solano grass	PMPOA6N020	Endangered	Endangered	G1	S1	1B.1



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Species	Element Code	Federal Status	State Status	Global Rank	State Rank	Rare Plant Rank/CDFW SSC or FP
<i>Vireo bellii pusillus</i> least Bell's vireo	ABPBW01114	Endangered	Endangered	G5T2	S2	
<i>Xanthocephalus xanthocephalus</i> yellow-headed blackbird	ABPBXB3010	None	None	G5	S3	SSC

Record Count: 83



United States Department of the Interior



FISH AND WILDLIFE SERVICE
Sacramento Fish And Wildlife Office
Federal Building
2800 Cottage Way, Room W-2605
Sacramento, CA 95825-1846
Phone: (916) 414-6600 Fax: (916) 414-6713

In Reply Refer To:

April 12, 2017

Consultation Code: 08ESMF00-2017-SLI-1756

Event Code: 08ESMF00-2017-E-04435 Project

Name: Downtown Specific Plan

Subject: List of threatened and endangered species that may occur in your proposed project location, and/or may be affected by your proposed project

To Whom It May Concern:

The enclosed species list identifies threatened, endangered, proposed and candidate species, as well as proposed and final designated critical habitat, under the jurisdiction of the U.S. Fish and Wildlife Service (Service) that may occur within the boundary of your proposed project and/or may be affected by your proposed project. The species list fulfills the requirements of the Service under section 7(c) of the Endangered Species Act (Act) of 1973, as amended (16 U.S.C. 1531 et seq.).

Please follow the link below to see if your proposed project has the potential to affect other species or their habitats under the jurisdiction of the National Marine Fisheries Service:

http://www.nwr.noaa.gov/protected_species/species_list/species_lists.html

New information based on updated surveys, changes in the abundance and distribution of species, changed habitat conditions, or other factors could change this list. Please feel free to contact us if you need more current information or assistance regarding the potential impacts to federally proposed, listed, and candidate species and federally designated and proposed critical habitat. Please note that under 50 CFR 402.12(e) of the regulations implementing section 7 of the Act, the accuracy of this species list should be verified after 90 days. This verification can be completed formally or informally as desired. The Service recommends that verification be completed by visiting the ECOS-IPaC website at regular intervals during project planning and implementation for updates to species lists and information. An updated list may be requested through the ECOS-IPaC system by completing the same process used to receive the enclosed list.

The purpose of the Act is to provide a means whereby threatened and endangered species and the ecosystems upon which they depend may be conserved. Under sections 7(a)(1) and 7(a)(2) of the Act and its implementing regulations (50 CFR 402 et seq.), Federal agencies are required to

utilize their authorities to carry out programs for the conservation of threatened and endangered species and to determine whether projects may affect threatened and endangered species and/or designated critical habitat.

A Biological Assessment is required for construction projects (or other undertakings having similar physical impacts) that are major Federal actions significantly affecting the quality of the human environment as defined in the National Environmental Policy Act (42 U.S.C. 4332(2) (c)). For projects other than major construction activities, the Service suggests that a biological evaluation similar to a Biological Assessment be prepared to determine whether the project may affect listed or proposed species and/or designated or proposed critical habitat. Recommended contents of a Biological Assessment are described at 50 CFR 402.12.

If a Federal agency determines, based on the Biological Assessment or biological evaluation, that listed species and/or designated critical habitat may be affected by the proposed project, the agency is required to consult with the Service pursuant to 50 CFR 402. In addition, the Service recommends that candidate species, proposed species and proposed critical habitat be addressed within the consultation. More information on the regulations and procedures for section 7 consultation, including the role of permit or license applicants, can be found in the "Endangered Species Consultation Handbook" at:

<http://www.fws.gov/endangered/esa-library/pdf/TOC-GLOS.PDF>

Please be aware that bald and golden eagles are protected under the Bald and Golden Eagle Protection Act (16 U.S.C. 668 et seq.), and projects affecting these species may require development of an eagle conservation plan (http://www.fws.gov/windenergy/eagle_guidance.html). Additionally, wind energy projects should follow the wind energy guidelines (<http://www.fws.gov/windenergy/>) for minimizing impacts to migratory birds and bats.

Guidance for minimizing impacts to migratory birds for projects including communications towers (e.g., cellular, digital television, radio, and emergency broadcast) can be found at: <http://www.fws.gov/migratorybirds/CurrentBirdIssues/Hazards/towers/towers.htm>; <http://www.towerkill.com>; and <http://www.fws.gov/migratorybirds/CurrentBirdIssues/Hazards/towers/comtow.html>.

We appreciate your concern for threatened and endangered species. The Service encourages Federal agencies to include conservation of threatened and endangered species into their project planning to further the purposes of the Act. Please include the Consultation Tracking Number in the header of this letter with any request for consultation or correspondence about your project that you submit to our office.

Attachment(s):

- Official Species List
-

Official Species List

This list is provided pursuant to Section 7 of the Endangered Species Act, and fulfills the requirement for Federal agencies to "request of the Secretary of the Interior information whether any species which is listed or proposed to be listed may be present in the area of a proposed action".

This species list is provided by:

Sacramento Fish And Wildlife Office

Federal Building

2800 Cottage Way, Room W-2605

Sacramento, CA 95825-1846

(916) 414-6600

This project's location is within the jurisdiction of multiple offices. Expect additional species list documents from the following office:

San Francisco Bay-delta Fish And Wildlife

650 Capitol Mall

Suite 8-300

Sacramento, CA 95814

(916) 930-5603

Project Summary

Consultation Code: 08ESMF00-2017-SLI-1756

Event Code: 08ESMF00-2017-E-04435

Project Name: Sacramento Downtown Specific Plan

Project Type: DEVELOPMENT

Project Description: The Downtown Specific Plan serves as a bridge between the Sacramento 2035 General Plan and the Central City Community Plan, customizing the planning process and land use regulations to the unique characteristics of Downtown. All subsequent development projects, zoning regulations, public improvements, and related activities within the DSP area are required to be consistent with the DSP.

Project Location:

Approximate location of the project can be viewed in Google Maps:

<https://www.google.com/maps/place/38.574932998790956N121.48920139085396W>



Counties: Sacramento, CA | Yolo, CA

Endangered Species Act Species

There is a total of 9 threatened, endangered, or candidate species on your species list. Species on this list should be considered in an effects analysis for your project and could include species that exist in another geographic area. For example, certain fish may appear on the species list because a project could affect downstream species. See the "Critical habitats" section below for those critical habitats that lie wholly or partially within your project area. Please contact the designated FWS office if you have questions.

Birds

NAME	STATUS
Least Bell's Vireo (<i>Vireo bellii pusillus</i>) There is a final critical habitat designated for this species. Your location is outside the designated critical habitat. Species profile: https://ecos.fws.gov/ecp/species/5945	Endangered

Reptiles

NAME	STATUS
Giant Garter Snake (<i>Thamnophis gigas</i>) No critical habitat has been designated for this species. Species profile: https://ecos.fws.gov/ecp/species/4482	Threatened

Amphibians

NAME	STATUS
California Red-legged Frog (<i>Rana draytonii</i>) There is a final critical habitat designated for this species. Your location is outside the designated critical habitat. Species profile: https://ecos.fws.gov/ecp/species/2891	Threatened
California Tiger Salamander (<i>Ambystoma californiense</i>) Population: U.S.A. (Central CA DPS) There is a final critical habitat designated for this species. Your location is outside the designated critical habitat. Species profile: https://ecos.fws.gov/ecp/species/2076	Threatened

Fishes

NAME	STATUS
Delta Smelt (<i>Hypomesus transpacificus</i>) There is a final critical habitat designated for this species. Your location overlaps the designated critical habitat. Species profile: https://ecos.fws.gov/ecp/species/321	Threatened
Steelhead (<i>Oncorhynchus (=Salmo) mykiss</i>) Population: Northern California DPS There is a final critical habitat designated for this species. Your location overlaps the designated critical habitat. Species profile: https://ecos.fws.gov/ecp/species/1007	Threatened

Insects

NAME	STATUS
Valley Elderberry Longhorn Beetle (<i>Desmocerus californicus dimorphus</i>) There is a final critical habitat designated for this species. Your location is outside the designated critical habitat. Species profile: https://ecos.fws.gov/ecp/species/7850	Threatened

Crustaceans

NAME	STATUS
Vernal Pool Fairy Shrimp (<i>Branchinecta lynchi</i>) There is a final critical habitat designated for this species. Your location is outside the designated critical habitat. Species profile: https://ecos.fws.gov/ecp/species/498	Threatened
Vernal Pool Tadpole Shrimp (<i>Lepidurus packardii</i>) There is a final critical habitat designated for this species. Your location is outside the designated critical habitat. Species profile: https://ecos.fws.gov/ecp/species/2246	Endangered

Critical habitats

There are 2 critical habitats wholly or partially within your project area.

NAME

STATUS

Delta Smelt (*Hypomesus transpacificus*)

Final
designated

Steelhead (*Oncorhynchus (=Salmo) mykiss*)

Final
designated



United States Department of the Interior



FISH AND WILDLIFE SERVICE
San Francisco Bay-delta Fish And Wildlife
650 Capitol Mall
Suite 8-300
Sacramento, CA 95814
Phone: (916) 930-5603 Fax: (916) 930-5654
http://kim_squires@fws.gov

In Reply Refer To:

April 12, 2017

Consultation Code: 08FBDT00-2017-SLI-0151

Event Code: 08FBDT00-2017-E-00260 Project

Name: Sacramento Downtown Specific Plan

Subject: List of threatened and endangered species that may occur in your proposed project location, and/or may be affected by your proposed project

To Whom It May Concern:

The enclosed species list identifies threatened, endangered, proposed and candidate species, as well as proposed and final designated critical habitat, that may occur within the boundary of your proposed project and/or may be affected by your proposed project. The species list fulfills the requirements of the U.S. Fish and Wildlife Service (Service) under section 7(c) of the Endangered Species Act (Act) of 1973, as amended (16 U.S.C. 1531 et seq.).

New information based on updated surveys, changes in the abundance and distribution of species, changed habitat conditions, or other factors could change this list. Please feel free to contact us if you need more current information or assistance regarding the potential impacts to federally proposed, listed, and candidate species and federally designated and proposed critical habitat. Please note that under 50 CFR 402.12(e) of the regulations implementing section 7 of the Act, the accuracy of this species list should be verified after 90 days. This verification can be completed formally or informally as desired. The Service recommends that verification be completed by visiting the ECOS-IPaC website at regular intervals during project planning and implementation for updates to species lists and information. An updated list may be requested through the ECOS-IPaC system by completing the same process used to receive the enclosed list.

The purpose of the Act is to provide a means whereby threatened and endangered species and the ecosystems upon which they depend may be conserved. Under sections 7(a)(1) and 7(a)(2) of the Act and its implementing regulations (50 CFR 402 et seq.), Federal agencies are required to utilize their authorities to carry out programs for the conservation of threatened and endangered species and to determine whether projects may affect threatened and endangered species and/or designated critical habitat.

A Biological Assessment is required for construction projects (or other undertakings having

similar physical impacts) that are major Federal actions significantly affecting the quality of the human environment as defined in the National Environmental Policy Act (42 U.S.C. 4332(2) (c)). For projects other than major construction activities, the Service suggests that a biological evaluation similar to a Biological Assessment be prepared to determine whether the project may affect listed or proposed species and/or designated or proposed critical habitat. Recommended contents of a Biological Assessment are described at 50 CFR 402.12.

If a Federal agency determines, based on the Biological Assessment or biological evaluation, that listed species and/or designated critical habitat may be affected by the proposed project, the agency is required to consult with the Service pursuant to 50 CFR 402. In addition, the Service recommends that candidate species, proposed species and proposed critical habitat be addressed within the consultation. More information on the regulations and procedures for section 7 consultation, including the role of permit or license applicants, can be found in the "Endangered Species Consultation Handbook" at:

<http://www.fws.gov/endangered/esa-library/pdf/TOC-GLOS.PDF>

Please be aware that bald and golden eagles are protected under the Bald and Golden Eagle Protection Act (16 U.S.C. 668 et seq.), and projects affecting these species may require development of an eagle conservation plan (http://www.fws.gov/windenergy/eagle_guidance.html). Additionally, wind energy projects should follow the wind energy guidelines (<http://www.fws.gov/windenergy/>) for minimizing impacts to migratory birds and bats.

Guidance for minimizing impacts to migratory birds for projects including communications towers (e.g., cellular, digital television, radio, and emergency broadcast) can be found at: <http://www.fws.gov/migratorybirds/CurrentBirdIssues/Hazards/towers/towers.htm>; <http://www.towerkill.com>; and <http://www.fws.gov/migratorybirds/CurrentBirdIssues/Hazards/towers/comtow.html>.

We appreciate your concern for threatened and endangered species. The Service encourages Federal agencies to include conservation of threatened and endangered species into their project planning to further the purposes of the Act. Please include the Consultation Tracking Number in the header of this letter with any request for consultation or correspondence about your project that you submit to our office.

Attachment(s):

- Official Species List
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Official Species List

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This species list is provided by:

San Francisco Bay-delta Fish And Wildlife

650 Capitol Mall

Suite 8-300

Sacramento, CA 95814

(916) 930-5603

This project's location is within the jurisdiction of multiple offices. Expect additional species list documents from the following office:

Sacramento Fish And Wildlife Office

Federal Building

2800 Cottage Way, Room W-2605

Sacramento, CA 95825-1846

(916) 414-6600

Project Summary

Consultation Code: 08FBDT00-2017-SLI-0151

Event Code: 08FBDT00-2017-E-00260

Project Name: Sacramento Downtown Specific Plan

Project Type: DEVELOPMENT

Project Description: The Downtown Specific Plan serves as a bridge between the Sacramento 2035 General Plan and the Central City Community Plan, customizing the planning process and land use regulations to the unique characteristics of Downtown. All subsequent development projects, zoning regulations, public improvements, and related activities within the DSP area are required to be consistent with the DSP.

Project Location:

Approximate location of the project can be viewed in Google Maps:

<https://www.google.com/maps/place/38.574932998790956N121.48920139085396W>



Counties: Sacramento, CA | Yolo, CA

Endangered Species Act Species

There is a total of 8 threatened, endangered, or candidate species on your species list. Species on this list should be considered in an effects analysis for your project and could include species that exist in another geographic area. For example, certain fish may appear on the species list because a project could affect downstream species. See the "Critical habitats" section below for those critical habitats that lie wholly or partially within your project area. Please contact the designated FWS office if you have questions.

Birds

NAME	STATUS
Least Bell's Vireo (<i>Vireo bellii pusillus</i>) There is a final critical habitat designated for this species. Your location is outside the designated critical habitat. Species profile: https://ecos.fws.gov/ecp/species/5945	Endangered

Reptiles

NAME	STATUS
Giant Garter Snake (<i>Thamnophis gigas</i>) No critical habitat has been designated for this species. Species profile: https://ecos.fws.gov/ecp/species/4482	Threatened

Amphibians

NAME	STATUS
California Red-legged Frog (<i>Rana draytonii</i>) There is a final critical habitat designated for this species. Your location is outside the designated critical habitat. Species profile: https://ecos.fws.gov/ecp/species/2891	Threatened
California Tiger Salamander (<i>Ambystoma californiense</i>) Population: U.S.A. (Central CA DPS) There is a final critical habitat designated for this species. Your location is outside the designated critical habitat. Species profile: https://ecos.fws.gov/ecp/species/2076	Threatened

Fishes

NAME	STATUS
Delta Smelt (<i>Hypomesus transpacificus</i>) There is a final critical habitat designated for this species. Your location overlaps the designated critical habitat. Species profile: https://ecos.fws.gov/ecp/species/321	Threatened

Insects

NAME	STATUS
Valley Elderberry Longhorn Beetle (<i>Desmocerus californicus dimorphus</i>) There is a final critical habitat designated for this species. Your location is outside the designated critical habitat. Species profile: https://ecos.fws.gov/ecp/species/7850	Threatened

Crustaceans

NAME	STATUS
Vernal Pool Fairy Shrimp (<i>Branchinecta lynchi</i>) There is a final critical habitat designated for this species. Your location is outside the designated critical habitat. Species profile: https://ecos.fws.gov/ecp/species/498	Threatened
Vernal Pool Tadpole Shrimp (<i>Lepidurus packardii</i>) There is a final critical habitat designated for this species. Your location is outside the designated critical habitat. Species profile: https://ecos.fws.gov/ecp/species/2246	Endangered

Critical habitats

There is 1 critical habitat wholly or partially within your project area.

NAME	STATUS
Delta Smelt (<i>Hypomesus transpacificus</i>)	Final designated



Plant List

Inventory of Rare and Endangered Plants

33 matches found. *Click on scientific name for details*

Search Criteria

Found in Quads 3812154, 3812155, 3812166, 3812165, 3812164, 3812163, 3812153, 3812143, 3812144, 3812145 3812146 and 3812156;

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Scientific Name	Common Name	Family	Blooming Period	CA Rare Plant Rank	State Rank	Federal Listing Status	Habitats	Lowest Elevation	Highest Elevation
Astragalus pauperculus	depauperate milk-vetch	Fabaceae	Mar-Jun	4.3	S4		<ul style="list-style-type: none"> • Chaparral • Cismontane woodland • Valley and foothill grassland 	60 m	1215 m
Astragalus tener var. ferrisiae	Ferris' milk-vetch	Fabaceae	Apr-May	1B.1	S1		<ul style="list-style-type: none"> • Meadows and seeps (vernally mesic) • Valley and foothill grassland (subalkaline flats) 	2 m	75 m
Astragalus tener var. tener	alkali milk-vetch	Fabaceae	Mar-Jun	1B.2	S2		<ul style="list-style-type: none"> • Playas • Valley and foothill grassland (adobe clay) • Vernal pools 	1 m	60 m
Atriplex cordulata var. cordulata	heartscale	Chenopodiaceae	Apr-Oct	1B.2	S2		<ul style="list-style-type: none"> • Chenopod scrub • Meadows and seeps • Valley and foothill grassland (sandy) 	0 m	560 m
Atriplex depressa	brittlescale	Chenopodiaceae	Apr-Oct	1B.2	S2		<ul style="list-style-type: none"> • Chenopod scrub • Meadows and seeps • Playas • Valley and foothill 	1 m	320 m

<u>Carex comosa</u>	bristly sedge	Cyperaceae	May-Sep	2B.1	S2			grassland • Vernal pools • Coastal prairie • Marshes and swamps (lake margins) • Valley and foothill grassland	0 m	625 m
<u>Centromadia parryi ssp. rudis</u>	Parry's rough tarplant	Asteraceae	May-Oct	4.2	S3			• Valley and foothill grassland • Vernal pools	0 m	100 m
<u>Chloropyron palmatum</u>	palmate-bracted bird's-beak	Orobanchaceae	May-Oct	1B.1	S1	CE	FE	• Chenopod scrub • Valley and foothill grassland	5 m	155 m
<u>Cuscuta obtusiflora var. glandulosa</u>	Peruvian dodder	Convolvulaceae	Jul-Oct	2B.2	SH			• Marshes and swamps (freshwater) • Valley and foothill grassland (mesic)	15 m	280 m
<u>Downingia pusilla</u>	dwarf downingia	Campanulaceae	Mar-May	2B.2	S2			• Vernal pools	1 m	445 m
<u>Eryngium jepsonii</u>	Jepson's coyote thistle	Apiaceae	Apr-Aug	1B.2	S2?			• Valley and foothill grassland • Vernal pools	3 m	300 m
<u>Extriplex joaquinana</u>	San Joaquin spearscale	Chenopodiaceae	Apr-Oct	1B.2	S2			• Chenopod scrub • Meadows and seeps • Playas • Valley and foothill grassland	1 m	835 m
<u>Fritillaria agrestis</u>	stinkbells	Liliaceae	Mar-Jun	4.2	S3			• Chaparral • Cismontane woodland • Pinyon and juniper woodland • Valley and foothill grassland	10 m	1555 m
<u>Gratiola heterosepala</u>	Boggs Lake hedge-hyssop	Plantaginaceae	Apr-Aug	1B.2	S2	CE		• Marshes and swamps (lake	10 m	2375 m

<u>Hesperervax caulescens</u>	hogwallow starfish	Asteraceae	Mar-Jun	4.2	S3	<ul style="list-style-type: none"> margins) • Vernal pools • Valley and foothill grassland (mesic, clay) • Vernal pools (shallow) 	0 m	505 m
<u>Hibiscus lasiocarpus var. occidentalis</u>	woolly rose-mallow	Malvaceae	Jun-Sep	1B.2	S3	<ul style="list-style-type: none"> • Marshes and swamps (freshwater) 	0 m	120 m
<u>Juglans hindsii</u>	Northern California black walnut	Juglandaceae	Apr-May	1B.1	S1	<ul style="list-style-type: none"> • Riparian forest • Riparian woodland 	0 m	440 m
<u>Juncus leiospermus var. ahartii</u>	Ahart's dwarf rush	Juncaceae	Mar-May	1B.2	S1	<ul style="list-style-type: none"> • Valley and foothill grassland (mesic) 	30 m	229 m
<u>Legenere limosa</u>	legenere	Campanulaceae	Apr-Jun	1B.1	S2	<ul style="list-style-type: none"> • Vernal pools 	1 m	880 m
<u>Lepidium latipes var. heckardii</u>	Heckard's pepper-grass	Brassicaceae	Mar-May	1B.2	S1	<ul style="list-style-type: none"> • Valley and foothill grassland (alkaline flats) 	2 m	200 m
<u>Lilaeopsis masonii</u>	Mason's lilaeopsis	Apiaceae	Apr-Nov	1B.1	S2 CR	<ul style="list-style-type: none"> • Marshes and swamps (brackish or freshwater) • Riparian scrub 	0 m	10 m
<u>Myosurus minimus ssp. apus</u>	little mousetail	Ranunculaceae	Mar-Jun	3.1	S2	<ul style="list-style-type: none"> • Valley and foothill grassland • Vernal pools (alkaline) 	20 m	640 m
<u>Navarretia eriocephala</u>	hoary navarretia	Polemoniaceae	May-Jun	4.3	S4	<ul style="list-style-type: none"> • Cismontane woodland • Valley and foothill grassland 	105 m	400 m
<u>Navarretia leucocephala ssp. bakeri</u>	Baker's navarretia	Polemoniaceae	Apr-Jul	1B.1	S2	<ul style="list-style-type: none"> • Cismontane woodland • Lower montane coniferous forest • Meadows and seeps • Valley and foothill 	5 m	1740 m

<u>Neostapfia colusana</u>	Colusa grass	Poaceae	May-Aug	1B.1	S1	CE	FT	grassland • Vernal pools • Vernal pools (adobe, large)	5 m	200 m
<u>Orcuttia tenuis</u>	slender Orcutt grass	Poaceae	May-Sep (Oct)	1B.1	S2	CE	FT	• Vernal pools	35 m	1760 m
<u>Orcuttia viscida</u>	Sacramento Orcutt grass	Poaceae	Apr-Jul (Sep)	1B.1	S1	CE	FE	• Vernal pools	30 m	100 m
<u>Plagiobothrys hystriculus</u>	bearded popcornflower	Boraginaceae	Apr-May	1B.1	S2			• Valley and foothill grassland (mesic) • Vernal pools margins	0 m	274 m
<u>Puccinellia simplex</u>	California alkali grass	Poaceae	Mar-May	1B.2	S2			• Chenopod scrub • Meadows and seeps • Valley and foothill grassland • Vernal pools	2 m	930 m
<u>Sagittaria sanfordii</u>	Sanford's arrowhead	Alismataceae	May-Oct (Nov)	1B.2	S3			• Marshes and swamps (assorted shallow freshwater)	0 m	650 m
<u>Symphyotrichum lentum</u>	Suisun Marsh aster	Asteraceae	(Apr) May-Nov	1B.2	S2			• Marshes and swamps (brackish and freshwater)	0 m	3 m
<u>Trifolium hydrophilum</u>	saline clover	Fabaceae	Apr-Jun	1B.2	S2			• Marshes and swamps • Valley and foothill grassland (mesic, alkaline) • Vernal pools	0 m	300 m
<u>Tuctoria mucronata</u>	Crampton's tuctoria or Solano grass	Poaceae	Apr-Aug	1B.1	S1	CE	FE	• Valley and foothill grassland (mesic) • Vernal pools	5 m	10 m

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