

SYCAMORE ENVIRONMENTAL CONSULTANTS, INC.

6355 Riverside Blvd., Suite C, Sacramento, CA 95831 916/ 427-0703 www.sycamoreenv.com

20 April 2017

Mr. Jim Davies 854 Diablo Road Danville, CA 94526

Phone: (925) 984-1222

Subject: Biological Review of Revised Design for the Piedmont Oak Project, El Dorado County, CA.

Dear Mr. Davies:

Sycamore Environmental prepared a biological update letter for the project dated 26 July 2016. Since that time, there have been minor design changes. I reviewed the updated project design dated March 2017 prepared by Lebeck Young Engineering, Inc. The purpose of the review was to determine if any of the design changes would affect any of the conclusions in the July 2016 biological update letter.

Most of the biological impacts, including oak impacts, occur as a result of project grading, and are dependent on the project's grading footprint. The only location where there are substantive changes to the grading footprint is on lots 25–40, along the southeast boundary of the project. Lots 25–40 have been moved so that they are 30 feet away from the project boundary. There is little oak canopy in the vicinity of the lots and it is along the project boundary. As a result, the grading is now farther away from the canopy near lots 25–40.

Near the northeastern project boundary, seven lots have been removed and an eighth has been realigned. There is no oak canopy on any of the lots and so the changes do not affect project impacts to oak canopy. As a result, the current design's impacts to oak canopy are the same as the July 2016 letter. The project site contains 8.21 acres of oak canopy and the project's oak canopy retention standard is 85% per General Plan policy 7.4.4.4. The project grading footprint will remove 1.15 acres of oak canopy and retain 7.06 acres. The project's oak canopy retention rate of 86% (7.06/8.21) meets the retention standard.

None of the design changes affect the proposed mitigation measure for nesting birds. We appreciate the opportunity of assisting you with this project. If you have any questions, please contact me.

Cordially,

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Chuck Hughes, M.S. Senior Biologist

ATTACHMENTS 10 and 11



SYCAMORE ENVIRONMENTAL CONSULTANTS, INC.

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26 July 2016

Mr. Jim Davies 854 Diablo Road Danville, CA 94526

Phone: (925) 984-1222

Subject: Biological Update for the Piedmont Oak Project, El Dorado County, CA.

Dear Mr. Davies:

The Project biological reports and oak canopy impact analysis were updated in February 2013. Since that time small changes have been made to the Project design. The purpose of this letter is to update the February 2013 biological and oak canopy results based on the revised tentative map and planned development exhibits prepared by Lebeck Young Engineering, Inc dated March 2016.

Methods:

- A new California Natural Diversity Database (CNDDB) and California Native Plant Society (CNPS) query was conducted for the Placerville quad and the eight surrounding quads. A new letter from the U.S. Fish and Wildlife Service (USFWS) was obtained with a list of federal-listed species that could be affected by projects in the area. The results of the updated database queries are in Attachment A. The updated database queries were reviewed for additions since the 2013 biological update.
- Updated project design was provided by Lebeck Young Engineering, Inc. The updated design was used to update the oak canopy impact map and biological impacts map in Attachment B.
- The channel boundaries on the project site were verified by the U.S. Army Corps of Engineers on 24 April 2013 (Attachment C). There are no wetlands at the site. The biological impacts map in Attachment B has been updated to include the Corps-verified channel boundaries.

<u>**Results – Current Conditions & Impacts:**</u>

An updated Biological Resources Map is in Attachment B. Biological community boundaries are the same as in 2013. Small changes in project design since 2013 have resulted in small changes to the Phase 1 and Phase 2 impacts in the table of biological communities below. None of the impacts are significantly different than the 2013 results.

Biological Community	State Rarity Rank ¹	Acreage	Phase 1 Impacts	Phase 2 Impacts
Mixed Oak Forest	S4	13.96	3.803	4.908
Ponderosa Pine Forest	S4	8.56	6.95	0.537
Annual Brome Grassland		2.99	2.204	0.076
White Leaf Manzanita Chaparral	S4	1.23	0.89	
Tree-of-Heaven Woodland		0.57	0.49	
Ephemeral Channels		0.08	0.008	0.008
	Total:	27.39	14.35	5.53

Table of Biological	Communities
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¹ State ranks of S1, S2, or S3 are generally considered rare or imperiled. Communities dominated by nonnative species are not ranked. The list of recognized vegetation associations and their rarity rankings in CDFW (2010) was reviewed, and the communities in the project area would not have an S3 or lower ranking at the association level.

Impacts to mixed oak forest are regulated and mitigated by El Dorado County General Plan Policy 7.4.4.4 and the associated Interim Interpretive Guidelines (amended 12 October 2007). Attachment B contains an updated oak canopy impact map for Phase 1. There were two primary changes that affected the oak canopy map. One is the addition of a lift station in Phase 1, near the road crossing of a channel, that removes existing oak canopy. To offsite the additional canopy loss from the lift station, six residential parcels (lots 34–39) near Highway 49 were moved into Phase 2, in order to preserve oak canopy in Phase 1. The result is that the amount of oak canopy removed, 1.15 acres, is slightly less than the 2013 project design. Phase 1 of the Project complies with the County oak canopy retention standards and General Plan Policy 7.4.4.4. Phase 1 retains 86% of existing oak canopy. The projects oak canopy retention standard is 85%. The 2013 proposed oak canopy replacement areas remain valid under the current design. An updated oak canopy replacement map is in Attachment B.

Phase 1 and 2 together would retain 55.4% of existing oak canopy. With the inclusion of Phase 2 the project does not meet the County's retention standards in General Plan Policy 7.4.4.4. The following table identifies oak canopy removed by phase.

Table of Oak Canopy

Phase	Oak CanopyOak CanopyRemoved (acres)Retained (acres)		Oak Canopy Retained (%)	
Existing Canopy (Baseline)		8.21 acres	100%	
Phase 1	1.15 acres	7.06 acres	86%	
Phase 1 and 2	3.66 acres	4.55 acres	55.4%	

The Corps verified the map of channels at the site in April 2013 (Attachment C). The Corps determined that channel 2a is 42 feet shorter than was shown on previous project maps. The Corps verified that there are no wetlands on the project site. The revised table of wetlands and waters below incorporates the Corps-verified channel dimensions. Both phases of the Project may fill up to 0.016 acre (430 linear feet) of ephemeral channels. The fill could be avoided with the use of bottomless culverts. Fill of the channels would require permitting under Sections 404 and 401 of the federal Clean Water Act. The project would require permitting under section 1600 of state Fish and Game Code due to work near the channels. The existing federal and/or state permitting processes require mitigation for the loss or degradation of channels, including replacement or restoration based on the extent of impact.

Feature	Hydrology	Length (ft)/ Avg. Width (ft)	Total Acreage	Phase 1 Impacts	Phase 2 Impacts
Channel 1	Ephemeral	977 ft / 2.5 ft	0.056	123 ft / 0.007 ac	
Channel 1b	Ephemeral	537 ft / 1.0 ft	0.012		74 ft / 0.002 ac
Channel 2	Ephemeral	301 ft / 1.5 ft	0.010		165 ft / 0.006 ac
Channel 2a	Ephemeral	68 ft / 0.5 ft	0.001	68 ft / 0.001 ac	
Total:		1,883 ft /	0.079	191 ft / 0.008 ac	239 ft / 0.008 ac

Table of Waters

Special-status species considered are those listed (or candidate or proposed) under the federal or state endangered species acts, under the California Native Plant Protection Act, as a California species of special concern or fully protected by CDFW, or that are ranked 1 or 2 on the California Native Plant Society's Inventory of Rare and Endangered Plants of California (CNPS 2016). Several special-status species have been added to the lists included in Attachment A since the 2013 report. A brief evaluation of each of these special-status species is below.

• Van Zuuk's morning-glory (*Calystegia vanzuukiae*): Van Zuuk's morning-glory is a perennial rhizomatous herb found in gabbro or serpentine soils in chaparral or cismontane woodland from about 1,600 ft. to 3,900 feet (CNPS 2016). The project site does not provide potential habitat due to a lack of suitable soils.

- Sierra arching sedge (*Carex cyrtostachya*): Sierra arching sedge is a perennial herb found in mesic lower montane coniferous forest, meadows and seeps, marshes and swamps, and riparian forest margins from about 2,000 to 4,460 feet. The project site does not provide potential habitat due to a lack of wetlands and sufficiently large channels with summertime moisture.
- Chaparral sedge (*Carex xerophila*): Chaparral sedge is a newly described perennial cespitose herb known from serpentine or gabbro soils. It occurs in uplands in full sun to partial shade, in open forest or chaparral, from about 1,475 to 2,525 ft (Zika *et al.* 2014). The project site does not provide potential habitat due to a lack of suitable soils.
- Starved daisy (*Erigeron miser*): Starved daisy is a perennial herb found on rocky substrates in upper montane coniferous forest from about 6,000 to 8,600 feet (CNPS 2016). The project site is too low in elevation to provide suitable habitat.

A floristic botanical survey was conducted in 2009 and no special-status plants were found. The 2009 botanical survey met the requirements of CDFW (2009), although the protocol was released several months after the survey.

The project site provides potential nesting habitat for birds listed under the federal Migratory Bird Treaty Act (MBTA) and CA Fish and Game Code §3503 and §3503.5. Fish and Game Code §3503 protects the nest or eggs of any bird and §3503.5 protects birds-of-prey (orders Falconiformes and Strigiformes). Construction activities could impact nesting birds listed by the MBTA and CA Fish and Game Code. The project site is not in a County designated Important Biological Corridor (IBC) or Ecological Preserves overlay (El Dorado County 2004). The project site is in County Rare Plant Mitigation Area 2, which is defined as the El Dorado Irrigation District Service Area (El Dorado County Code Chapter 130.71).

<u>Results – Proposed Avoidance and Minimization:</u>

The measure below is proposed for birds listed under the MBTA and CA Fish and Game Code.

Mitigation Measure 1:

- If construction begins outside the 1 February to 31 August breeding season, there will be no need to conduct a preconstruction survey for active nests.
- If construction begins between 1 February and 31 August then a qualified biologist shall conduct a preconstruction survey for active nests. The survey will include a 250 foot radius from the work area for nesting birds-of-prey and a 50 foot radius from the work area for other nesting MBTA birds. The survey will be conducted from publicly accessible areas within two weeks prior to construction. If no active nest of a bird-of-prey or MBTA bird is found, then no further action is necessary.
- If an active nest of a bird-of-prey or MBTA bird is found, then the biologist shall recommend a buffer suitable to protect the nest until fledging. The County shall approve the final buffer. The size and shape of suitable buffers depends on the species of bird, the location of the nest relative to the Project, Project activities during the time the nest is active, and other Project specific conditions.
- No construction activity shall be allowed in the buffer until the biologist determines that the nest

is no longer active, or unless monitoring determines that a smaller buffer will protect the active nest. The buffer may be reduced, with the County's concurrence, if the biologist monitors the construction activities and determines that no disturbance to the active nest is occurring.

Impacts to channels on the project site are regulated under the permitting programs of CDFW (1600 Lake and Streambed Alteration Agreements), the Regional Water Quality Control Board (Waste Discharge Requirements and Section 401 Certification), and the U.S. Army Corps of Engineers (Clean Water Act Section 404). These permitting programs as a whole consider physical impacts to the bed, banks, and riparian area of channels, as well as potential impacts to water quality, and require mitigation. The state and federal permitting programs reduce potential impacts to the ephemeral channels.

We appreciate the opportunity of assisting you with this project. If you have any questions, please contact me.

Cordially,

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Chuck Hughes, M.S. Senior Biologist

Attachment A.	Database Queries
Attachment B.	Biological Impacts Map
	Phase I Oak Canopy Impact Map
	Phase 1 Oak Canopy Replacement Map
Attachment C.	Corps Verification Letter

Literature Cited:

- California Department of Fish and Wildlife (CDFW, formerly DFG). 24 November 2009. Protocols for surveying and evaluating impacts to special status native plant populations and natural communities.
- California Department of Fish and Wildlife (CDFW, formerly DFG). September 2010. Vegetation classification and mapping program: Natural Communities List. Biogeographic Data Branch, Sacramento, CA.
- California Native Plant Society (CNPS). Accessed July 2016. Inventory of rare and endangered plants (online edition, v8-02). California Native Plant Society, Sacramento, CA. http://www.rareplants.cnps.org/
- El Dorado County. Adopted 19 July 2004. El Dorado County general plan, a plan for managed growth and open roads; a plan for quality neighborhoods and traffic relief. El Dorado County Planning Department, Placerville, CA.
- El Dorado County. January 2004, Certified 19 July 2004. El Dorado County general plan, final environmental impact report (EIR). Resolution No. 234-2004, State Clearinghouse No. 2001082030. Prepared by EDAW.
- El Dorado County. Amended 10 May 2007. Interim interpretive guidelines for El Dorado County general plan policy 7.4.4.4 (option A). El Dorado County, CA.
- Zika, P. F., L. P. Janeway, and B. L. Wilson. 2014. Carex xerophila (Cyperaceae), a new sedge from the chaparral of Northern California. Madrono 61:3(299-307).

Attachment A

Database Queries



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 PHONE: (916)414-6600 FAX: (916)414-6713



Consultation Code: 08ESMF00-2016-SLI-1827 Event Code: 08ESMF00-2016-E-03977 Project Name: Piedmont Oak Estates July 14, 2016

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



Project name: Piedmont Oak Estates

Official Species List

Provided by:

Sacramento Fish and Wildlife Office FEDERAL BUILDING 2800 COTTAGE WAY, ROOM W-2605 SACRAMENTO, CA 95825 (916) 414-6600

Consultation Code: 08ESMF00-2016-SLI-1827 Event Code: 08ESMF00-2016-E-03977

Project Type: DEVELOPMENT

Project Name: Piedmont Oak Estates

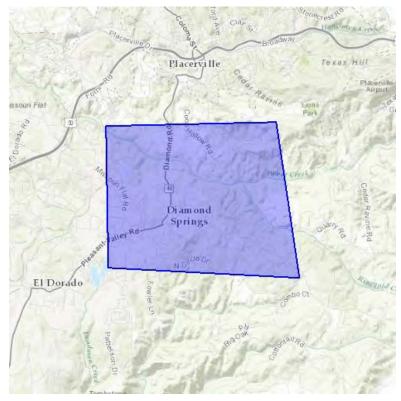
Please Note: The FWS office may have modified the Project Name and/or Project Description, so it may be different from what was submitted in your previous request. If the Consultation Code matches, the FWS considers this to be the same project. Contact the office in the 'Provided by' section of your previous Official Species list if you have any questions or concerns.

http://ecos.fws.gov/ipac, 07/14/2016 09:41 AM



Project name: Piedmont Oak Estates

Project Location Map:



Project Coordinates: MULTIPOLYGON (((-120.82798004150389 38.71471512069058, - 120.78420639038086 38.715384828496404, -120.7781982421875 38.68416977848471, - 120.82729339599608 38.68617974136571, -120.82798004150389 38.71471512069058)))

Project Counties: El Dorado, CA



Project name: Piedmont Oak Estates

Endangered Species Act Species List

There are a total of 4 threatened or endangered 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. Critical habitats listed under the **Has Critical Habitat** column may or may not lie within your project area. See the **Critical habitats within your project area** section further below for critical habitat that lies within your project. Please contact the designated FWS office if you have questions.

Amphibians	Status	Has Critical Habitat	Condition(s)
California red-legged frog (Rana	Threatened	Final designated	
draytonii)			
Population: Entire			
Fishes	_	_	
Delta smelt (Hypomesus	Threatened	Final designated	
transpacificus)			
Population: Entire			
steelhead (Oncorhynchus (=salmo)	Threatened	Final designated	
mykiss)			
Population: Northern California DPS			
Flowering Plants			
Layne's butterweed (Senecio layneae)	Threatened		

http://ecos.fws.gov/ipac, 07/14/2016 09:41 AM



Project name: Piedmont Oak Estates

Critical habitats that lie within your project area

There are no critical habitats within your project area.

http://ecos.fws.gov/ipac, 07/14/2016 09:41 AM





Query Criteria:

I: Quad IS (Aukum (3812056) OR Camino (3812066) OR Camino (3812076) OR Fiddletown (3812057) OR Garden Valley (3812077) OR Latrobe (3812058) OR Placerville (3812067) OR Shingle Springs (3812068) OR Slate Mtn. (3812076))

Species	Element Code	Federal Status	State Status	Global Rank	State Rank	Rare Plant Rank/CDFW SSC or FP
Accipiter gentilis	ABNKC12060	None	None	G5	S3	SSC
northern goshawk						
Agelaius tricolor	ABPBXB0020	None	None	G2G3	S1S2	SSC
tricolored blackbird						
Allium jepsonii Jepson's onion	PMLIL022V0	None	None	G2	S2	1B.2
Arctostaphylos nissenana Nissenan manzanita	PDERI040V0	None	None	G1	S1	1B.2
Ardea alba	ABNGA04040	None	None	G5	S4	
great egret					-	
Ardea herodias	ABNGA04010	None	None	G5	S4	
great blue heron						
Bombus occidentalis	IIHYM24250	None	None	G2G3	S1	
western bumble bee				0.470	00	10.0
Calochortus clavatus var. avius Pleasant Valley mariposa-lily	PMLIL0D095	None	None	G4T2	S2	1B.2
		Fadarasad		64	04	40.4
Calystegia stebbinsii Stebbins' morning-glory	PDCON040H0	Endangered	Endangered	G1	S1	1B.1
Calystegia vanzuukiae	PDCON040Q0	None	None	G2Q	S2	1B.3
Van Zuuk's morning-glory	FDCON040Q0	None	None	620	52	10.5
Carex cyrtostachya	PMCYP03M00	None	None	G2	S2	1B.2
Sierra arching sedge		None	None	02	02	10.2
Ceanothus roderickii	PDRHA04190	Endangered	Rare	G1	S1	1B.2
Pine Hill ceanothus				0.		
Central Valley Drainage Hardhead/Squawfish Stream	CARA2443CA	None	None	GNR	SNR	
Central Valley Drainage Hardhead/Squawfish Stream						
Central Valley Drainage Resident Rainbow Trout Stream	CARA2421CA	None	None	GNR	SNR	
Central Valley Drainage Resident Rainbow Trout Stream						
Chlorogalum grandiflorum	PMLIL0G020	None	None	G2	S2	1B.2
Red Hills soaproot						
Clarkia biloba ssp. brandegeeae	PDONA05053	None	None	G4G5T4	S4	4.2
Brandegee's clarkia						
Cosumnoperla hypocrena	IIPLE23020	None	None	G2	S2	
Cosumnes stripetail						
Crocanthemum suffrutescens	PDCIS020F0	None	None	G2Q	S2	3.2
Bisbee Peak rush-rose						



Selected Elements by Scientific Name California Department of Fish and Wildlife California Natural Diversity Database



Species	Element Code	Federal Status	State Status	Global Rank	State Rank	Rare Plant Rank/CDFW SSC or FP
Emys marmorata	ARAAD02030	None	None	G3G4	S3	SSC
western pond turtle						
Fremontodendron decumbens	PDSTE03030	Endangered	Rare	G1	S1	1B.2
Pine Hill flannelbush						
Galium californicum ssp. sierrae	PDRUB0N0E7	Endangered	Rare	G5T1	S1	1B.2
El Dorado bedstraw						
Horkelia parryi	PDROS0W0C0	None	None	G2	S2	1B.2
Parry's horkelia						
Lasionycteris noctivagans	AMACC02010	None	None	G5	S3S4	
silver-haired bat						
Myotis yumanensis	AMACC01020	None	None	G5	S4	
Yuma myotis						
Packera layneae	PDAST8H1V0	Threatened	Rare	G2	S2	1B.2
Layne's ragwort						
Pekania pennanti	AMAJF01021	Proposed	Candidate	G5T2T3Q	S2S3	SSC
fisher - West Coast DPS		Threatened	Threatened			
Phrynosoma blainvillii	ARACF12100	None	None	G3G4	S3S4	SSC
coast horned lizard						
Rana boylii	AAABH01050	None	None	G3	S3	SSC
foothill yellow-legged frog						
Rana draytonii	AAABH01022	Threatened	None	G2G3	S2S3	SSC
California red-legged frog						
Riparia riparia	ABPAU08010	None	Threatened	G5	S2	
bank swallow						
Sacramento-San Joaquin Foothill/Valley Ephemeral Stream	CARA2130CA	None	None	GNR	SNR	
Sacramento-San Joaquin Foothill/Valley Ephemeral Stream						
Strix nebulosa	ABNSB12040	None	Endangered	G5	S1	
great gray owl						
Viburnum ellipticum	PDCPR07080	None	None	G4G5	S3?	2B.3
oval-leaved viburnum						
Wyethia reticulata	PDAST9X0D0	None	None	G2	S2	1B.2
El Dorado County mule ears						
					Record Coun	it: 34

Commercial Version -- Dated July, 2 2016 -- Biogeographic Data Branch Report Printed on Saturday, July 09, 2016

CNPS Collifornia Native Plant S. Rare and Endangered Plant Inventory

Plant List

27 matches found. Click on scientific name for details

Search Criteria

Found in 9 Quads around 38120F7

Scientific Name	Common Name	Family	Lifeform	Rare Plant Rank	State Rank	Global Rank
Allium jepsonii	Jepson's onion	Alliaceae	perennial bulbiferous herb	1B.2	S2	G2
<u>Allium sanbornii var.</u> congdonii	Congdon's onion	Alliaceae	perennial bulbiferous herb	4.3	S3	G3T3
Arctostaphylos mewukka ssp. truei	True's manzanita	Ericaceae	perennial evergreen shrub	4.2	S3	G4?T3
Arctostaphylos nissenana	Nissenan manzanita	Ericaceae	perennial evergreen shrub	1B.2	S1	G1
Bolandra californica	Sierra bolandra	Saxifragaceae	perennial herb	4.3	S4	G4
<u>Calochortus clavatus var.</u> avius	Pleasant Valley mariposa lily	Liliaceae	perennial bulbiferous herb	1B.2	S2	G4T2
Calystegia stebbinsii	Stebbins' morning-glory	Convolvulaceae	perennial rhizomatous herb	1B.1	S1	G1
<u>Calystegia vanzuukiae</u>	Van Zuuk's morning-glory	Convolvulaceae	perennial rhizomatous herb	1B.3	S2	G2Q
Carex xerophila	chaparral sedge	Cyperaceae	perennial herb	1B.2	S2S3	G2G3
Ceanothus fresnensis	Fresno ceanothus	Rhamnaceae	perennial evergreen shrub	4.3	S4	G4
Ceanothus roderickii	Pine Hill ceanothus	Rhamnaceae	perennial evergreen shrub	1B.1	S1	G1
Chlorogalum grandiflorum	Red Hills soaproot	Agavaceae	perennial bulbiferous herb	1B.2	S2	G2
<u>Clarkia biloba ssp.</u> brandegeeae	Brandegee's clarkia	Qnagraceae	annual herb	4.2	S4	G4G5T4
Clarkia virgata	Sierra clarkia	Onagraceae	annual herb	4.3	S3	G3
<u>Claytonia parviflora ssp.</u> grandiflora	streambank spring beauty	Montiaceae	annual herb	4.2	S3	G5T3
Crocanthemum suffrutescens	Bisbee Peak rush-rose	Cistaceae	perennial evergreen shrub	3.2	S2	G2Q
Delphinium hansenii ssp. ewanianum	Ewan's larkspur	Ranunculaceae	perennial herb	4.2	S3	G4T3
Erigeron miser	starved daisy	Asteraceae	perennial herb	1B.3	S3?	G3?
Fremontodendron decumbens	Pine Hill flannelbush	Malvaceae	perennial evergreen shrub	1B.2	S1	G1

Galium californicum ssp. sierrae	El Dorado bedstraw	Rubiaceae	perennial herb	1B.2	S1	G5T1
Horkelia parryi	Parry's horkelia	Rosaceae	perennial herb	1B.2	S2	G2
Lilium humboldtii ssp. humboldtii	Humboldt lily	Liliaceae	perennial bulbiferous herb	4.2	S3	G4T3
Navarretia prolifera ssp. lutea	yellow bur navarretia	Polemoniaceae	annual herb	4.3	S3	G4T3
Packera layneae	Layne's ragwort	Asteraceae	perennial herb	1B.2	S2	G2
Trichostema rubisepalum	Hemandez bluecuris	Lamiaceae	annual herb	4.3	S4	G4
Viburnum ellipticum	oval-leaved viburnum	Adoxaceae	perennial deciduous shrub	2B.3	S3?	G4G5
Wyethia reticulata	El Dorado County mule ears	Asteraceae	perennial herb	1 B .2	S2	G2

Suggested Citation

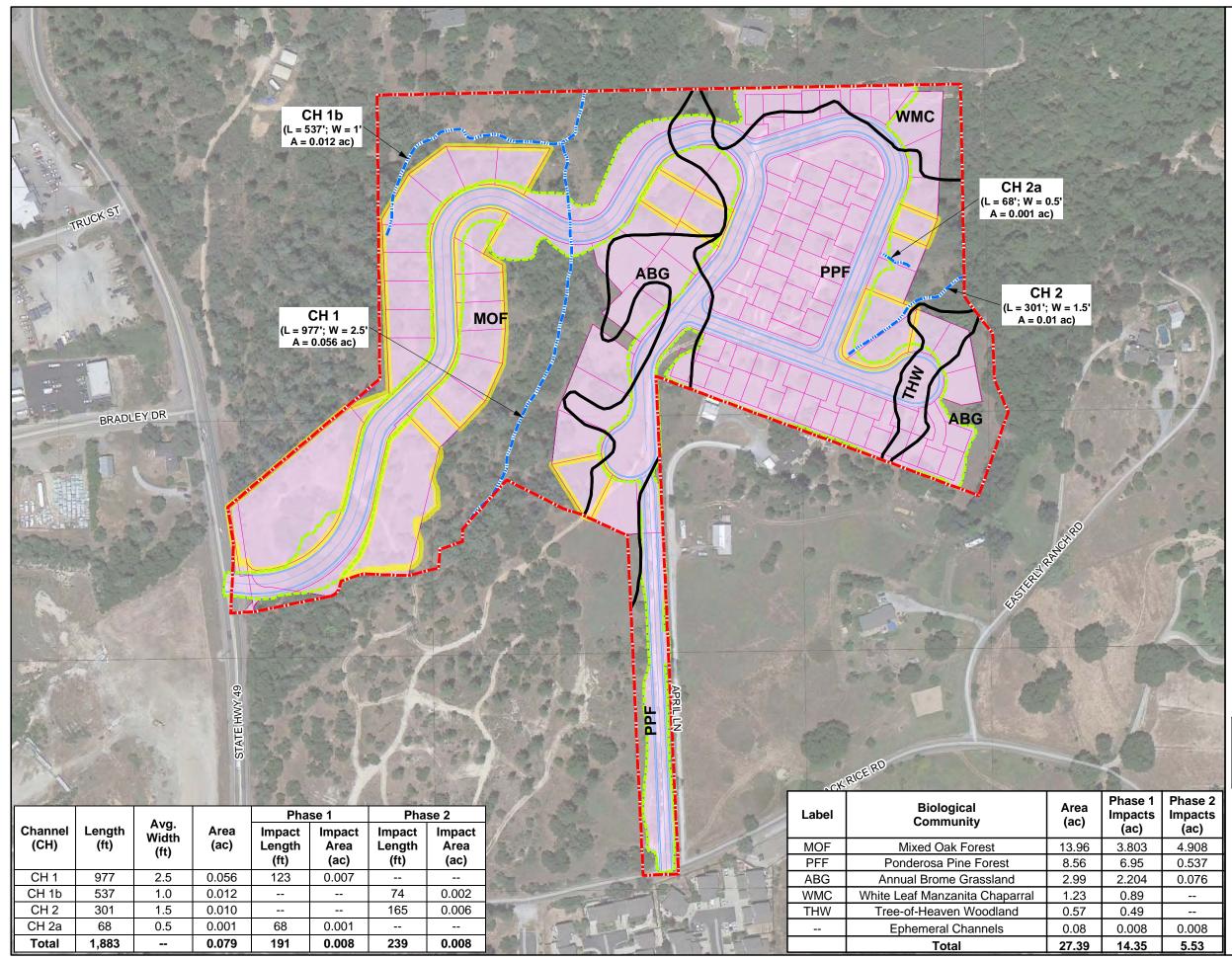
CNPS, Rare Plant Program. 2016. Inventory of Rare and Endangered Plants (online edition, v8-02). California Native Plant Society, Sacramento, CA. Website http://www.rareplants.cnps.org [accessed 14 July 2016].

Search the Inventory Simple Search Advanced Search Glossary Information About the Inventory About the Rare Plant Program CNPS Home Page About CNPS Join CNPS Contributors The Calflora Database The California Lichen Society

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Attachment **B**

Biological Impacts Map Phase 1 Oak Canopy Impact Map Phase 1 Oak Canopy Replacement Map



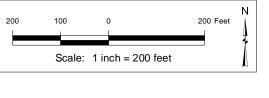
Pledmont Oak Estates El Dorado County, CA 21 July 2016

Biological Impacts Map



2

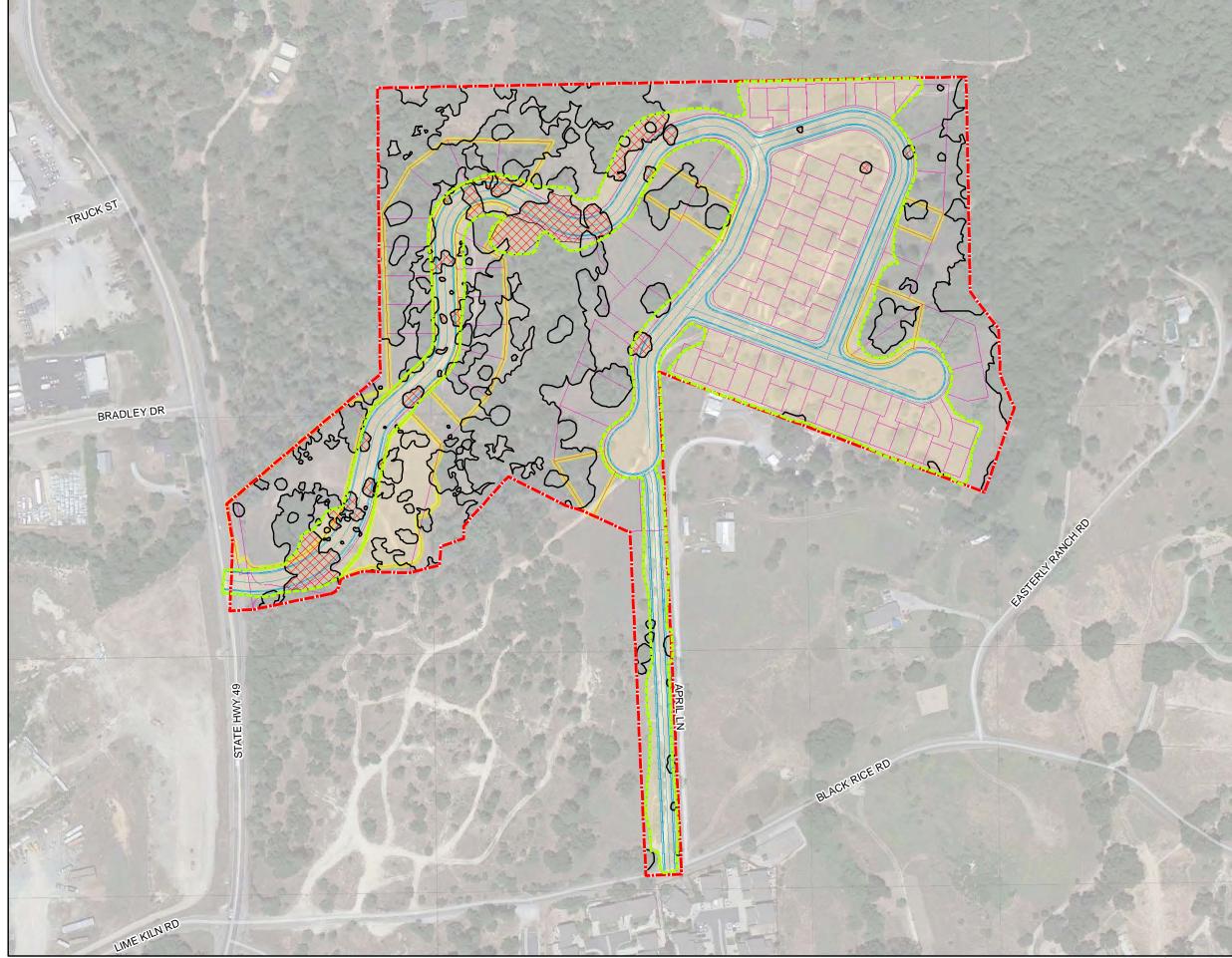
Project Study Area (PSA; 27.39 ac)
Biological Community Boundary
Channel (CH)
Lot Lines
Proposed Paved Roads
Phase II Lots
Gradıng Footprınt (March 2016)





Aerial Photograph: 11 June 2012 Google Earth Imagery Piedmont Oak Estates Tentative Map and Project Development Plan (Sept. 2012) TSM-1.dwg by BTConsulting, Inc.

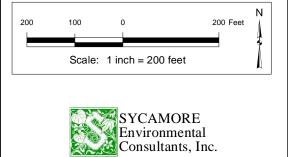
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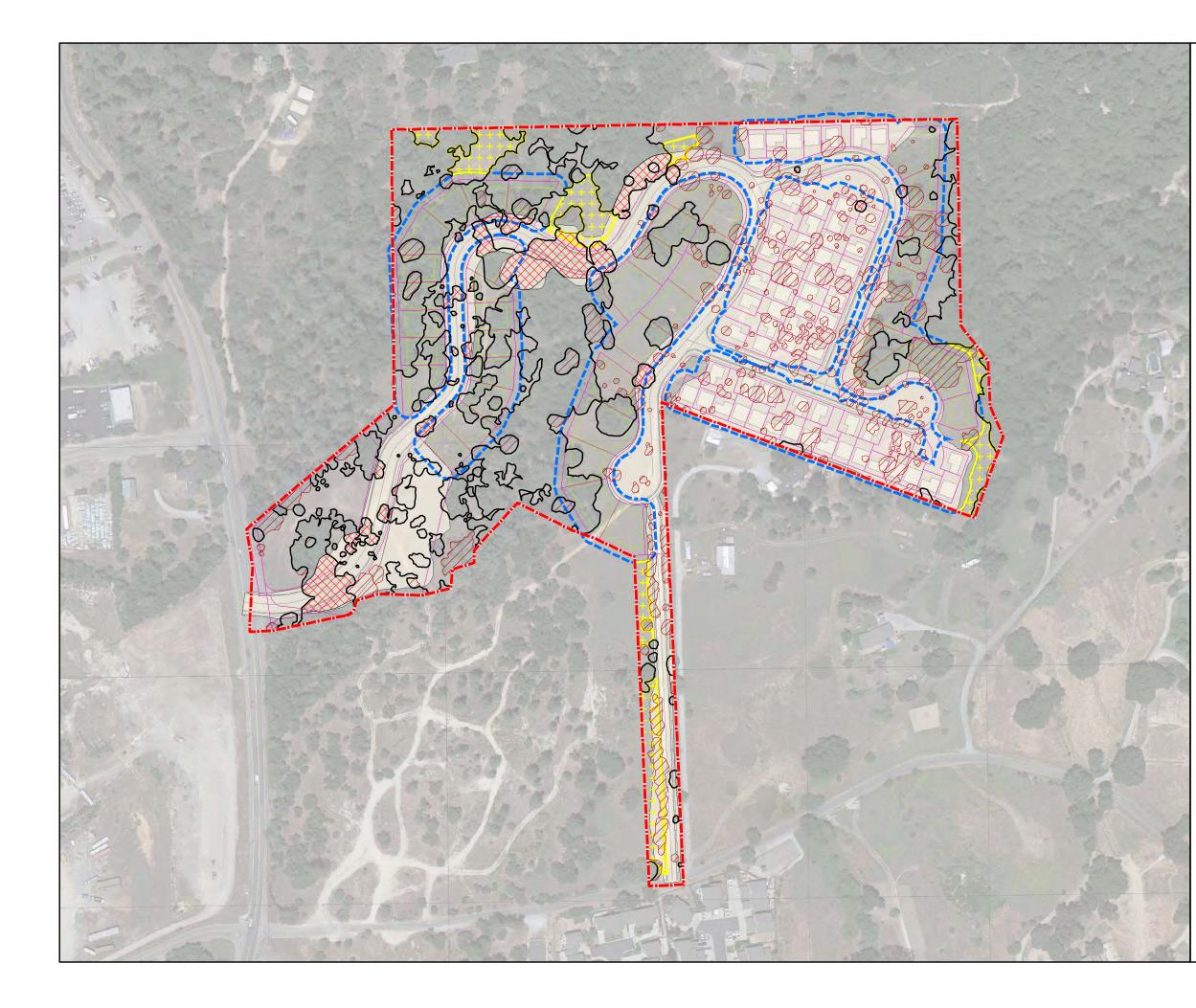
Piedmont Oak Estates El Dorado County, CA 21 July 2016

Attachment B. Phase | Oak Canopy Impact

- Project Study Area (PSA; 27.39 ac)
- Existing Oak Canopy (8.21 ac)
- Phase | Oak Canopy Removed (1.15 ac)
- // Lot Lines
- Proposed Paved Roads
 - Phase II Boundary
 - Project Footprint
 - Grading Footprint (March 2016)



Aerial Photograph: 11 June 2012 Google Earth Imagery Piedmont Oak Estates Tentative Map and Project Development Plan (Gept. 2012) M-Base.dwg by Peter K. Thorne (15 Jan. 2013) Grading Footprint: 2016-06-29 Piedmont Oak Estates TM & EX's.dwg by Lebeck Young Engineering (March 2016)



Piedmont Oak Estates El Dorado County, CA 26 July 2016

Attachment C. Phase | Oak Canopy Replacement

🎦 Project Study Area (PSA; 27.39 ac) Existing Oak Canopy (8.21 ac) 🎇 Phase | Oak Canopy Removed (1.15 ac) 🔀 Non-oak Canopy 🔀 Phase I Oak Canopy Replacement (I.20 ac) 30ft Fire Safety Buffer ∕∕∕ Lot Lines Proposed Paved Roads 🖂 Project Footprint Project Footprint Compact Lot Structure Premium Lot Setback

200	100	0		200 Feet	N
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Attachment C

Corps Verification Letter



DEPARTMENT OF THE ARMY

U.S. ARMY ENGINEER DISTRICT, SACRAMENTO CORPS OF ENGINEERS 1325 J STREET SACRAMENTO CA 95814-2922

REPLY TO ATTENTION OF

April 24, 2013



Regulatory Division SPK-2009-00928

Mr. Jim Davies Piedmont Oak Estates, LLC 854 Diablo Road Danville, California 94526-2760

Dear Mr. Davies:

We are responding to your April 9, 2013, request for a preliminary jurisdictional determination (JD), in accordance with our Regulatory Guidance Letter (RGL) 08-02, for the Piedmont Oak Estates site. The approximately 27.39-acre site is located near Weber Creek, Section 19, Township 10 North, Range 11 East, Mount Diablo Meridian, Latitude 38.7025313162938°, Longitude -120.808560315998°, Town of Diamond Spring, El Dorado County, California.

Based on available information, we concur with the amount and location of wetlands and/or other water bodies on the site as depicted on the enclosed 16 April, 2013, *Piedmont Oak Estates, El Dorado County, CA*, prepared by Sycamore Environmental Consultants, Inc (enclosure 1). The approximately 0.0709 acre of other water bodies present within the survey area are potential waters of the United States regulated under Section 404 of the Clean Water Act.

A copy of our RGL 08-02 Preliminary Jurisdictional Determination Form for this site is enclosed (enclosure 2). Please sign and return a copy of the completed form to this office. Once we receive a copy of the form with your signature we can accept and process a Pre-Construction Notification or permit application for your proposed project.

You should not start any work in potentially jurisdictional waters of the United States unless you have Department of the Army permit authorization for the activity. You may request an approved JD for this site at any time prior to starting work within waters. In certain circumstances, as described in RGL 08-02, an approved JD may later be necessary.

You should provide a copy of this letter and notice to all other affected parties, including any individual who has an identifiable and substantial legal interest in the property.

This preliminary determination has been conducted to identify the potential limits of wetlands and other water bodies which may be subject to Corps of Engineers' jurisdiction for the particular site identified in this request. A Notification of Appeal Process and Request for

Appeal Form is enclosed to notify you of your options with this determination (enclosure 3). This determination may not be valid for the wetland conservation provisions of the Food Security Act of 1985. If you or your tenant are U.S. Department of Agriculture (USDA) program participants, or anticipate participation in USDA programs, you should request a certified wetland determination from the local office of the Natural Resources Conservation Service, prior to starting work.

We appreciate your feedback. At your earliest convenience, please tell us how we are doing by completing the customer survey on our website under Customer Service Survey.

Please refer to identification number SPK-2009-00928 in any correspondence concerning this project. If you have any questions, please contact Mr. Peck Ha at our California North Branch Office, Regulatory Division, Sacramento District, U.S. Army Corps of Engineers, 1325 J Street, Room 1350, Sacramento, California 95814-2922, email Peck Ha@usace.armv.mil. or telephone 916-557-6617. For more information regarding our program, please visit our website at www.spk.usace.army.mil/Missions/Regulatory.aspx.

Sincerely,

nev Arcady Haley Nancy Arcady Haley

Chief, California North Branch

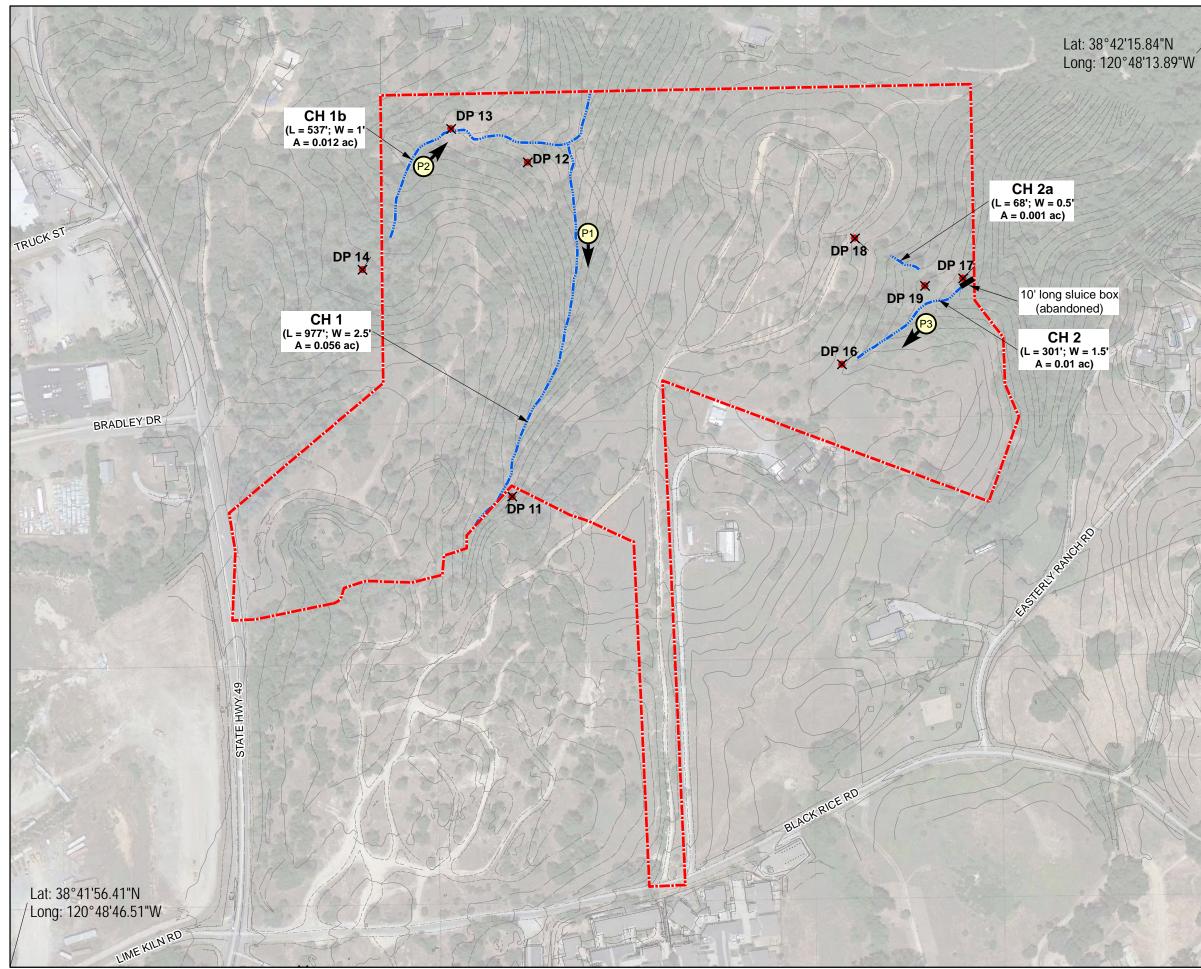
Enclosures

Copy Furnished with enclosures:

Ms. Lillian Macleod, El Dorado County Planning Department, 2850 Fairlane Court, Placerville, California 95667

Copies Furnished without enclosures:

- Mr. Chuck Hughes, Sycamore Environmental Consultants, Inc., 6355 Riverside Boulevard, Suite C, Sacramento, California 95831
- Ms. Elizabeth Lee, California Regional Water Quality Control Board, Central Valley Region, 11020 Sun Center Drive #200, Rancho Cordova, California 95670-6114
- Ms. Tina Bartlett, California Department of Fish and Game, Region 2, 1701 Nimbus Drive, Rancho Cordova, California 95670-4599
- U.S. Fish and Wildlife Service, Endangered Species Division, 2800 Cottage Way, Suite W2605, Sacramento, California 95825-3901
- Mr. Jason Brush, Environmental Protection Agency, WRT-8, 75 Hawthorne Street, San Francisco, California 94105-3922





Piedmont Oak Estates El Dorado County, CA 16 Aprıl 2013

Jurisdictional Delineation Map

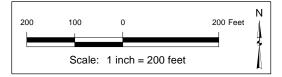


Project Study Area (PSA; 27.39 ac) X Datapoint Location and Number (DP) ----- Channel



Photopoint Location and Direction

Channel (CH)	Length (ft)	Avg. Width (ft)	Area (ac)
CH 1	977	2.5	0.056
CH 1b	537	1.0	0.012
CH 2	301	1.5	0.010
CH 2a	68	0.5	0.001
Total	1,883		0.079



ĺ	Date	Submittal	Delineators	Agency/ Co.
	9 Apr 07	Original	ACF	Sycamore
	4 Apr 13	Update PSA	CCH	Sycamore
	16 Apr 13	After Corps Field Review	ССН	Sycamore



Aenal Photograph: 1 I June 2012 Google Earth Imagery Pledmont Oak Estates Tentative Map and Project Development Plan (Sept. 2012) T-Base.dwg \$ TSM-1.dwg by BTConsulting, Inc.

18-0367ed Hor25koff_145Jpdate.mxd





6355 Riverside Blvd., Suite C, Sacramento, CA 95831 916/ 427-0703 Fax 916/ 427-2175

6 February 2013

Mr. Jim Davies 854 Diablo Road Danville, CA 94526

Phone: (925) 984-1222

Subject: Biological and Wetlands Report Updates for the Piedmont Oak Project, El Dorado County, CA.

Dear Mr. Davies:

The purpose of this letter is to update biological and wetland reports previously prepared for the project. The project boundary and design have been revised since the reports were prepared. The following biological reports were previously prepared for the project:

9 April 2007	Biological Resources Evaluation and Preliminary Jurisdictional
	Delineation Report for Piedmont Oak Estates.
2 July 2009	Botanical Survey Update for Piedmont Oak Estates.

Parcels 051-461-37 and -54 are no longer part of the project, except for an emergency access road on parcel -54. This letter updates the previous maps and acreage estimates for the new design, as well as updating the database searches. The project is divided into two phases. Phase 1 includes the road network, 62 clustered residential parcels, 21 detached single residential parcels, and one commercial lot. Phase 2 includes 21 additional detached single residential parcels, and a second commercial lot.

Methods:

- A new California Natural Diversity Database (CNDDB) query was conducted for the Placerville quad and the eight surrounding quads. A new letter from the U.S. Fish and Wildlife Service (USFWS) was obtained with a list of federal-listed species that could be affected by projects in the area. A query of the California Native Plant Society (CNPS) Inventory of Rare and Endangered Plants was conducted. The results of the updated database searches are in Attachment A. The updated database searches were reviewed for changes since the 2007 biological report.
- A reconnaissance field visit was conducted on 6 December 2012 and 10 January 2013. The field visits were conducted to document current site conditions, and in support of updating the maps from the 2007 biological report. The updated maps are in Attachment B.

• Project design, prepared by BTConsulting, Inc., was overlaid on the existing biological resources map to estimate potential impacts.

<u>Results – Current Conditions & Impacts:</u>

An updated Biological Resources Map is in Attachment B. Biological community boundaries have been updated since the 2007 report at the alliance level. Much of the understory vegetation in some parts of the site had been removed prior the 2007 report, and the areas were categorized as "partially cleared land." Understory vegetation has re-grown since then. Also, the CA Department of Fish and Wildlife has since updated the recognized natural communities list (CDFW 2010) based on Sawyer et al. (2009). The revised Biological Communities Table below incorporates the changes. Tree-of-heaven woodland is not included on the CDFW list (2010), however CDFW acknowledges that description and classification of the State's vegetation communities is ongoing. Tree-of-heaven is an invasive weed with moderate ecological impacts (Cal-IPC 2006).

Biological Community	State Rarity Rank ¹	Acreage	Phase 1 Impacts	Phase 2 Impacts
Mixed Oak Forest	S4	13.96	4.78	3.98
Ponderosa Pine Forest	S4	8.56	6.95	0.54
Annual Brome Grassland		2.99	1.69	0.59
White Leaf Manzanita Chaparral	S4	1.23	0.89	
Tree-of-Heaven Woodland		0.57	0.49	0.01
Ephemeral Channels		0.08	0.008	0.008
Total:		27.39	14.81	5.12

Table of Biological Communities

¹ State ranks of S1, S2, or S3 are generally considered rare or imperiled. Communities dominated by nonnative species are not ranked. The list of recognized vegetation associations and their rarity rankings in CDFW (2010) was reviewed, and the communities in the project area would not have an S3 or lower ranking at the association level.

Impacts to mixed oak forest are regulated and mitigated by El Dorado County General Plan Policy 7.4.4.4 and the associated Interim Interpretive Guidelines (amended 12 October 2007). A separate analysis specific to Policy 7.4.4.4 will be prepared. The other biological communities are not considered sensitive at the state or local level. Ponderosa pine, chaparral, and annual grassland are not identified as sensitive habitat in the General Plan EIR (El Dorado County 2004).

The extent of waters and wetlands at the site has not changed since the 2007 report. There are no wetlands on the current project site. The wetlands were on the parcels that are no longer part of the project. The revised table of wetlands and waters below incorporates the changes. The Project may fill up to 0.016 acre (472 linear feet) of ephemeral channels. The fill could be avoided with the use of bottomless culverts. Fill of the channels would require permitting under Sections 404 and 401 of the federal Clean Water Act if the channels meet criteria for Waters of the U.S. Fill of the channels would

require permitting under section 1600 of state Fish and Game Code and the state Porter-Cologne Water Quality Control Act regardless of federal jurisdiction. The existing federal and/or state permitting processes require mitigation for the loss or degradation of channels, including replacement or restoration based on the extent of impact.

Feature	Hydrology	Length (ft)/ Avg. Width (ft)	Total Acreage	Phase 1 Impacts	Phase 2 Impacts
Channel 1	Ephemeral	977 ft / 2.5 ft	0.056	123 ft / 0.007 ac	
Channel 1b	Ephemeral	537 ft / 1.0 ft	0.012		74 ft / 0.002 ac
Channel 2	Ephemeral	301 ft / 1.5 ft	0.010		165 ft / 0.006 ac
Channel 2a	Ephemeral	110 ft / 0.5 ft	0.001	110 ft / 0.001 ac	
Total:		1,925 ft /	0.079	233 ft / 0.008 ac	239 ft / 0.008 ac

Table of Waters

Special-status species considered are those listed (or candidate or proposed) under the federal or state endangered species acts, under the California Native Plant Protection Act, as a California species of special concern or fully protected by CDFW, or that are on List 1 or 2 of the California Native Plant Society's Inventory of Rare and Endangered Plants of California (CNPS 2012). Several special-status species have been added to the lists included in Attachment A since the 2007 report. A brief evaluation of each of these special-status species is below.

- *Winter-run Chinook salmon, Sacramento River*: Once found throughout the upper Sacramento River basin, the winter-run chinook salmon is now confined to the mainstem Sacramento River below Keswick Dam (Moyle 2002). The project site does not provide potential habitat.
- *Conservancy fairy shrimp, vernal pool fairy shrimp, Sacramento orcutt grass*: These species are associated with vernal pools in and around the Central Valley (USFWS 1994, CNPS 2012). There are no vernal pools in the project site and there is no potential habitat.
- *Bank swallow*: This bird is restricted to riparian areas with vertical cliffs and banks with fine-textured or sandy soil (Zeiner et al. 1990). The project site does not provide potential habitat.
- *Great gray owl:* This species occurs between 4,500 and 7,500 feet in the Sierra Nevada from the vicinity of Quincy in Plumas Co. south to the Yosemite Region. It breeds in old-growth red fir, mixed conifer, or lodgepole pine habitats, always in the vicinity of wet meadows (Zeiner et al. 1990). The project site does not provide potential habitat.

The 2007 report identified four special-status plants for which potential habitat occurred: Nissenan manzanita, Pleasant Valley mariposa lily, Brandegee's clarkia, and oval-leaved viburnum. The current project site continues to provide habitat for these species. A floristic botanical survey was conducted in 2009 during the evident and identifiable period of the plants and none were found. Brandegee's clarkia has since been down-listed from CNPS List 1B to List 4. The 2009 botanical survey met the protocol of the CDFW (2009), although it was released several months after the survey.

The current project site provides potential nesting habitat for birds listed under the federal Migratory Bird Treaty Act (MBTA) and CA Fish and Game Code §3503 and §3503.5. Fish and Game Code §3503 protects the nest or eggs of any bird and §3503.5 protects birds-of-prey (orders Falconiformes and Strigiformes). Construction activities could impact nesting birds listed by the MBTA and CA Fish and Game Code. The project site is not in a County designated Important Biological Corridor (IBC) or Ecological Preserves overlay (El Dorado County 2004). The project site is in County Rare Plant Mitigation Area 2, which is defined as the El Dorado Irrigation District Service Area (El Dorado County Code Chapter 17.71).#

<u>Results – Proposed Avoidance and Minimization:</u>

The measure below is proposed for birds listed under the MBTA and CA Fish and Game Code.

Avoidance and Minimization Measure 1:

- If construction begins outside the 1 February to 31 August breeding season, there will be no need to conduct a preconstruction survey for active nests.
- If construction begins between 1 February and 31 August then a qualified biologist shall conduct a preconstruction survey for active nests. The survey will include a 250 foot radius from the work area for nesting birds-of-prey and a 50 foot radius from the work area for other nesting MBTA birds. The survey will be conducted from publicly accessible areas within two weeks prior to construction. If no active nest of a bird-of-prey or MBTA bird is found, then no further action is necessary.
- If an active nest of a bird-of-prey or MBTA bird is found, then the biologist shall recommend a buffer suitable to protect the nest until fledging. The County shall approve the final buffer. The size and shape of suitable buffers depends on the species of bird, the location of the nest relative to the Project, Project activities during the time the nest is active, and other Project specific conditions.
- No construction activity shall be allowed in the buffer until the biologist determines that the nest is no longer active, or unless monitoring determines that a smaller buffer will protect the active nest. The buffer may be reduced, with the County's concurrence, if the biologist monitors the construction activities and determines that no disturbance to the active nest is occurring.

Impacts to channels on the project site are regulated under the permitting programs of CDFW (1600 Lake and Streambed Alteration Agreements), the Regional Water Quality Control Board (Waste Discharge Requirements and Section 401 Certification), and possibly the U.S. Army Corps of Engineers (Clean Water Act Section 404). These permitting programs as a whole consider physical impacts to the bed, banks, and riparian area of channels, as well as potential impacts to water quality, and require mitigation. The state and federal permitting programs reduce potential impacts to the ephemeral channels. We appreciate the opportunity of assisting you with this project. If you have any questions, please contact me.

Cordially,

Charley Mugher

Chuck Hughes, M.S. Botanist/ Biologist

c: Mr. Peter Thorne, P.E. BTConsulting, Inc.

Attachment A. USFWS Letter & List CNDDB Query CNPS Inventory Query Attachment B. Project Location Map Aerial Photograph Biological Resources Map Biological Impacts Map

Literature Cited:

- California Department of Fish and Wildlife (CDFW, formerly DFG). 24 November 2009. Protocols for surveying and evaluating impacts to special status native plant populations and natural communities.
- California Department of Fish and Wildlife (CDFW, formerly DFG). September 2010. Vegetation classification and mapping program: Natural Communities List. Biogeographic Data Branch, Sacramento, CA.
- California Invasive Plant Council (Cal-IPC). 2006. Invasive plant inventory. California Invasive Plant Council, Berkeley, CA. <www.cal-ipc.org>
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- El Dorado County. Adopted 19 July 2004. El Dorado County general plan, a plan for managed growth and open roads; a plan for quality neighborhoods and traffic relief. El Dorado County Planning Department, Placerville, CA.
- El Dorado County. January 2004, Certified 19 July 2004. El Dorado County general plan, final environmental impact report (EIR). Resolution No. 234-2004, State Clearinghouse No. 2001082030. Prepared by EDAW.
- El Dorado County. Amended 10 May 2007. Interim interpretive guidelines for El Dorado County general plan policy 7.4.4 (option A). El Dorado County, CA.
- Moyle, P. B. 2002. Inland Fishes of California. University of California Press, Berkeley and Los Angeles, CA.
- U.S. Fish and Wildlife Service (USFWS). 19 September 1994. Endangered and threatened wildlife and plants; Determination of endangered status for the conservancy fairy shrimp, longhorn fairy shrimp, and the vernal pool tadpole shrimp; and threatened status for the vernal pool fairy shrimp. Federal Register 59:48136.
- Sawyer, J. O., T. Keeler-Wolf, and J. M. Evens. 2009. A manual of California vegetation, 2nd ed. California Native Plant Society, Sacramento, CA.
- Zeiner, D., K. Mayer, M. White, and W. Laudenslayer, Jr., eds. 1990. California's wildlife, Volume II, Birds. California Department of Fish and Game, Sacramento, CA.

Attachment A

USFWS Letter & List CNDDB Query CNPS Inventory Query



United States Department of the Interior

FISH AND WILDLIFE SERVICE

Sacramento Fish and Wildlife Office 2800 Cottage Way, Room W-2605 Sacramento, California 95825



December 10, 2012

Document Number: 121210050303

R. John Little, Ph.D. Sycamore Environmental Consultants, Inc. 6355 Riverside Blvd., Suite C Sacramento, CA 95831

Subject: Species List for Piedmont Oak Estates

Dear: Dr. Little

We are sending this official species list in response to your December 10, 2012 request for information about endangered and threatened species. The list covers the California counties and/or U.S. Geological Survey 7½ minute quad or quads you requested.

Our database was developed primarily to assist Federal agencies that are consulting with us. Therefore, our lists include all of the sensitive species that have been found in a certain area *and also ones that may be affected by projects in the area*. For example, a fish may be on the list for a quad if it lives somewhere downstream from that quad. Birds are included even if they only migrate through an area. In other words, we include all of the species we want people to consider when they do something that affects the environment.

Please read Important Information About Your Species List (below). It explains how we made the list and describes your responsibilities under the Endangered Species Act.

Our database is constantly updated as species are proposed, listed and delisted. If you address proposed and candidate species in your planning, this should not be a problem. However, we recommend that you get an updated list every 90 days. That would be March 10, 2013.

Please contact us if your project may affect endangered or threatened species or if you have any questions about the attached list or your responsibilities under the Endangered Species Act. A list of Endangered Species Program contacts can be found <u>here</u>.

Endangered Species Division



18-0367 H 32 of 145

U.S. Fish & Wildlife Service Sacramento Fish & Wildlife Office

Federal Endangered and Threatened Species that Occur in or may be Affected by Projects in the Counties and/or U.S.G.S. 7 1/2 Minute Quads you requested

Document Number: 121210050303 Database Last Updated: September 18, 2011

Quad Lists

Listed Species

Invertebrates

Desmocerus californicus dimorphus valley elderberry longhorn beetle (T)

Fish

Hypomesus transpacificus delta smelt (T)

Oncorhynchus mykiss Central Valley steelhead (T) (NMFS)

Oncorhynchus tshawytscha Central Valley spring-run chinook salmon (T) (NMFS) winter-run chinook salmon, Sacramento River (E) (NMFS)

Amphibians

Rana draytonii California red-legged frog (T)

Plants

Senecio layneae Layne's butterweed (=ragwort) (T)

Quads Containing Listed, Proposed or Candidate Species:

PLACERVILLE (510A)

County Lists

El Dorado County

Listed Species

Invertebrates

Branchinecta conservatio Conservancy fairy shrimp (E)

Branchinecta lynchi vernal pool fairy shrimp (T)

Desmocerus californicus dimorphus valley elderberry longhorn beetle (T) Lepidurus packardi vernal pool tadpole shrimp (E)

Fish

Hypomesus transpacificus delta smelt (T)

Oncorhynchus (=Salmo) clarki henshawi Lahontan cutthroat trout (T)

Oncorhynchus mykiss Central Valley steelhead (T) (NMFS)

Critical habitat, Central Valley steelhead (X) (NMFS)

Oncorhynchus tshawytscha

Central Valley spring-run chinook salmon (T) (NMFS) winter-run chinook salmon, Sacramento River (E) (NMFS)

Amphibians

Ambystoma californiense California tiger salamander, central population (T)

Rana draytonii

California red-legged frog (T) Critical habitat, California red-legged frog (X)

Reptiles

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Thamnophis gigas
giant garter snake (T)
```

Plants

Calystegia stebbinsii Stebbins's morning-glory (E)

Ceanothus roderickii Pine Hill ceanothus (E)

Fremontodendron californicum ssp. decumbens Pine Hill flannelbush (E)

Galium californicum ssp. sierrae El Dorado bedstraw (E)

Orcuttia viscida

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Critical habitat, Sacramento Orcutt grass (X) Sacramento Orcutt grass (E)

Senecio layneae Layne's butterweed (=ragwort) (T)

Candidate Species

Amphibians

Bufo canorus Yosemite toad (C)

Rana muscosa mountain yellow-legged frog (C)

Mammals

Martes pennanti fisher (C)

Plants

Rorippa subumbellata Tahoe yellow-cress (C)

Key:

(E) Endangered - Listed as being in danger of extinction.

(T) Threatened - Listed as likely to become endangered within the foreseeable future.

(P) *Proposed* - Officially proposed in the Federal Register for listing as endangered or threatened.

(NMFS) Species under the Jurisdiction of the <u>National Oceanic & Atmospheric Administration Fisheries Service</u>. Consult with them directly about these species.

Critical Habitat - Area essential to the conservation of a species.

(PX) Proposed Critical Habitat - The species is already listed. Critical habitat is being proposed for it.

(C) Candidate - Candidate to become a proposed species.

(V) Vacated by a court order. Not currently in effect. Being reviewed by the Service.

(X) Critical Habitat designated for this species

Important Information About Your Species List

How We Make Species Lists

We store information about endangered and threatened species lists by U.S. Geological Survey $7\frac{1}{2}$ minute quads. The United States is divided into these quads, which are about the size of San Francisco.

The animals on your species list are ones that occur within, **or may be affected by** projects within, the quads covered by the list.

• Fish and other aquatic species appear on your list if they are in the same watershed as your quad or if water use in your quad might affect them.

18-0367 H 35 of 145

- Amphibians will be on the list for a quad or county if pesticides applied in that area may be carried to their habitat by air currents.
- Birds are shown regardless of whether they are resident or migratory. Relevant birds on the county list should be considered regardless of whether they appear on a quad list.

Plants

Any plants on your list are ones that have actually been observed in the area covered by the list. Plants may exist in an area without ever having been detected there. You can find out what's in the surrounding quads through the California Native Plant Society's online <u>Inventory of Rare and Endangered Plants</u>.

Surveying

Some of the species on your list may not be affected by your project. A trained biologist and/or botanist, familiar with the habitat requirements of the species on your list, should determine whether they or habitats suitable for them may be affected by your project. We recommend that your surveys include any proposed and candidate species on your list. See our <u>Protocol</u> and <u>Recovery Permits</u> pages.

For plant surveys, we recommend using the <u>Guidelines for Conducting and Reporting</u> <u>Botanical Inventories</u>. The results of your surveys should be published in any environmental documents prepared for your project.

Your Responsibilities Under the Endangered Species Act

All animals identified as listed above are fully protected under the Endangered Species Act of 1973, as amended. Section 9 of the Act and its implementing regulations prohibit the take of a federally listed wildlife species. Take is defined by the Act as "to harass, harm, pursue, hunt, shoot, wound, kill, trap, capture, or collect" any such animal.

Take may include significant habitat modification or degradation where it actually kills or injures wildlife by significantly impairing essential behavioral patterns, including breeding, feeding, or shelter (50 CFR §17.3).

Take incidental to an otherwise lawful activity may be authorized by one of two procedures:

• If a Federal agency is involved with the permitting, funding, or carrying out of a project that may result in take, then that agency must engage in a formal <u>consultation</u> with the Service.

During formal consultation, the Federal agency, the applicant and the Service work together to avoid or minimize the impact on listed species and their habitat. Such consultation would result in a biological opinion by the Service addressing the anticipated effect of the project on listed and proposed species. The opinion may authorize a limited level of incidental take.

• If no Federal agency is involved with the project, and federally listed species may be taken as part of the project, then you, the applicant, should apply for an incidental take permit. The Service may issue such a permit if you submit a satisfactory conservation plan for the species that would be affected by your project.

Should your survey determine that federally listed or proposed species occur in the area and are likely to be affected by the project, we recommend that you work with this office and the California Department of Fish and Game to develop a plan that minimizes the project's direct and indirect impacts to listed species and compensates for project-related loss of habitat. You should include the plan in any environmental documents you file.

Critical Habitat

When a species is listed as endangered or threatened, areas of habitat considered essential

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to its conservation may be designated as critical habitat. These areas may require special management considerations or protection. They provide needed space for growth and normal behavior; food, water, air, light, other nutritional or physiological requirements; cover or shelter; and sites for breeding, reproduction, rearing of offspring, germination or seed dispersal.

Although critical habitat may be designated on private or State lands, activities on these lands are not restricted unless there is Federal involvement in the activities or direct harm to listed wildlife.

If any species has proposed or designated critical habitat within a quad, there will be a separate line for this on the species list. Boundary descriptions of the critical habitat may be found in the Federal Register. The information is also reprinted in the Code of Federal Regulations (50 CFR 17.95). See our <u>Map Room</u> page.

Candidate Species

We recommend that you address impacts to candidate species. We put plants and animals on our candidate list when we have enough scientific information to eventually propose them for listing as threatened or endangered. By considering these species early in your planning process you may be able to avoid the problems that could develop if one of these candidates was listed before the end of your project.

Species of Concern

The Sacramento Fish & Wildlife Office no longer maintains a list of species of concern. However, various other agencies and organizations maintain lists of at-risk species. These lists provide essential information for land management planning and conservation efforts. <u>More info</u>

Wetlands

If your project will impact wetlands, riparian habitat, or other jurisdictional waters as defined by section 404 of the Clean Water Act and/or section 10 of the Rivers and Harbors Act, you will need to obtain a permit from the U.S. Army Corps of Engineers. Impacts to wetland habitats require site specific mitigation and monitoring. For questions regarding wetlands, please contact Mark Littlefield of this office at (916) 414-6520.

Updates

Our database is constantly updated as species are proposed, listed and delisted. If you address proposed and candidate species in your planning, this should not be a problem. However, we recommend that you get an updated list every 90 days. That would be March 10, 2013.

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California Department of Fish and Game Natural Diversity Database CNDDB Summary List for Placerville and 8 Adjacent Quads

Scientific Name	Common Name	Element Code	Federal Status	State Status	Global Rank	State Rank	CNPS	CDFG
1 Accipiter gentilis	northern goshawk	ABNKC12060			G5	S3		SC
2 Agelaius tricolor	tricolored blackbird	ABPBXB0020			G2G3	S2		SC
3 Allium jepsonii	Jepson's onion	PMLIL022V0			G1	S1	1B.2	
4 Arctostaphylos nissenana	Nissenan manzanita	PDERI040V0			G2	S2.2	1B.2	
5 Ardea alba	great egret	ABNGA04040			G5	S4		
6 Calochortus clavatus var. avius	Pleasant Valley mariposa-lily	PMLIL0D095			G4T2	S2	1B.2	
7 Calystegia stebbinsii	Stebbins' morning-glory	PDCON040H0	Endangered	Endangered	G1	S1	1B.1	
8 Ceanothus roderickii	Pine Hill ceanothus	PDRHA04190	Endangered	Rare	G1	S1	1B.2	
9 Central Valley Drainage Hardhead/Squawfish Stream	Central Valley Drainage Hardhead/Squawfish Stream	CARA2443CA			G?	SNR		
10 Central Valley Drainage Resident Rainbow Trout Stream	Central Valley Drainage Resident Rainbow Trout Stream	CARA2421CA			G?	SNR		
11 Chlorogalum grandiflorum	Red Hills soaproot	PMLIL0G020			G3	S3	1B.2	
12 Clarkia biloba ssp. brandegeeae	Brandegee's clarkia	PDONA05053			G4G5T4	S4	4.2	
13 Cosumnoperla hypocrena	Cosumnes spring stonefly	IIPLE23020			G1	S1		
14 Emys marmorata	western pond turtle	ARAAD02030			G3G4	S3		SC
15 Fremontodendron decumbens	Pine Hill flannelbush	PDSTE03030	Endangered	Rare	G1	S1	1B.2	
16 Galium californicum ssp. sierrae	El Dorado bedstraw	PDRUB0N0E7	Endangered	Rare	G5T1	S1	1B.2	
17 Helianthemum suffrutescens	Bisbee Peak rush-rose	PDCIS020F0			G2Q	S2.2	3.2	
18 Horkelia parryi	Parry's horkelia	PDROS0W0C0			G2	S2.2	1B.2	
19 Lasionycteris noctivagans	silver-haired bat	AMACC02010			G5	S3S4		
20 Martes pennanti (pacifica) DPS	Pacific fisher	AMAJF01021	Candidate		G5	S2S3		SC
21 Myotis yumanensis	Yuma myotis	AMACC01020			G5	S4?		
22 Packera layneae	Layne's ragwort	PDAST8H1V0	Threatened	Rare	G2	S2	1B.2	
23 Phrynosoma blainvillii	coast horned lizard	ARACF12100			G4G5	S3S4		SC
24 Rana boylii	foothill yellow-legged frog	AAABH01050			G3	S2S3		SC
25 Riparia riparia	bank swallow	ABPAU08010		Threatened	G5	S2S3		
26 Sacramento-San Joaquin Foothill/Valley Ephemeral Stream	Sacramento-San Joaquin Foothill/Valley Ephemeral Stream	CARA2130CA			G?	SNR		
27 Strix nebulosa	great gray owl	ABNSB12040		Endangered	G5	S1		
28 Viburnum ellipticum	oval-leaved viburnum	PDCPR07080			G5	S2.3	2.3	
29 Wyethia reticulata	El Dorado County mule ears	PDAST9X0D0			G2	S2	1B.2	

CNPS Colifornia Native Plant SInventory of Rare and Endangered Plants

Plant List

20 matches found. Click on scientific name for details

Parry's horkelia

yellow bur navarretia

oval-leaved viburnum

Layne's ragwort

Humboldt lily

20 matches found. Click on scientific name for details								
Search Criteria				- 4 8 94				
Found in 9 Quade	s around 38120F7							
Scientific Name	Common Name	Family	Lifeform	Rare Plant Rank	State Rank	Global Rank		
Allium jepsonii	Jepson's onion	Alliaceae	perennial bulbiferous herb	1B.2	S1	G1		
<u>Allium sanbornii var.</u> <u>congdonii</u>	Congdon's onion	Alliaceae	perennial bulbiferous herb	4.3	S3.3	G3T3		
Arctostaphylos nissenana	Nissenan manzanita	Ericaceae	perennial evergreen shrub	1B.2	S2.2	G2		
Bolandra californica	Sierra bolandra	Saxifragaceae	perennial herb	4.3	S3.3	G3		
<u>Calochortus clavatus var.</u> <u>avius</u>	Pleasant Valley mariposa lily	Liliaceae	perennial bulbiferous herb	1B.2	S2	G4T2		
Calystegia stebbinsii	Stebbins' morning-glory	Convolvulaceae	perennial rhizomatous herb	1B.1	S1	G1		
Ceanothus roderickii	Pine Hill ceanothus	Rhamnaceae	perennial evergreen shrub	1B.2	S1	G1		
Chlorogalum grandiflorum	Red Hills soaproot	Agavaceae	perennial bulbiferous herb	1B.2	S3	G3		
<u>Clarkia biloba ssp.</u> brandegeeae	Brandegee's clarkia	Onagraceae	annual herb	4.2	S4	G4G5T4		
Clarkia virgata	Sierra clarkia	Onagraceae	annual herb	4.3	S3.3	G3		
<u>Claytonia parviflora ssp.</u> grandiflora	streambank spring beauty	Montiaceae	annual herb	4.2	S3.2	G5T3		
Fremontodendron decumbens	Pine Hill flannelbush	Malvaceae	perennial evergreen shrub	1B.2	S1	G1		
<u>Galium californicum ssp.</u> sierrae	El Dorado bedstraw	Rubiaceae	perennial herb	1B.2	S1	G5T1		
Helianthemum suffrutescens	Bisbee Peak rush-rose	Cistaceae	perennial evergreen shrub	3.2	S2.2	G2Q		

Rosaceae

Liliaceae

Polemoniaceae

Asteraceae

Adoxaceae

1B.2

4.2

4.3

1B.2

2.3

perennial herb

annual herb

perennial herb

perennial deciduous

herb

shrub

perennial bulbiferous

S2.2

S3.2

S3.3

S2

S2.3

G2

G4T3

G4T3

G2

G5

Horkelia parryi

Packera layneae

Viburnum ellipticum

humboldtii

lutea

Lilium humboldtii ssp.

Navarretia prolifera ssp.

Wyethia reticulata	El Dorado County mule ears	Asteraceae	perennial herb	1B.2	S2	G2

Suggested Citation

California Native Plant Society (CNPS). 2012. Inventory of Rare and Endangered Plants (online edition, v8-01a). California Native Plant Society. Sacramento, CA. Accessed on Monday, December 10, 2012.

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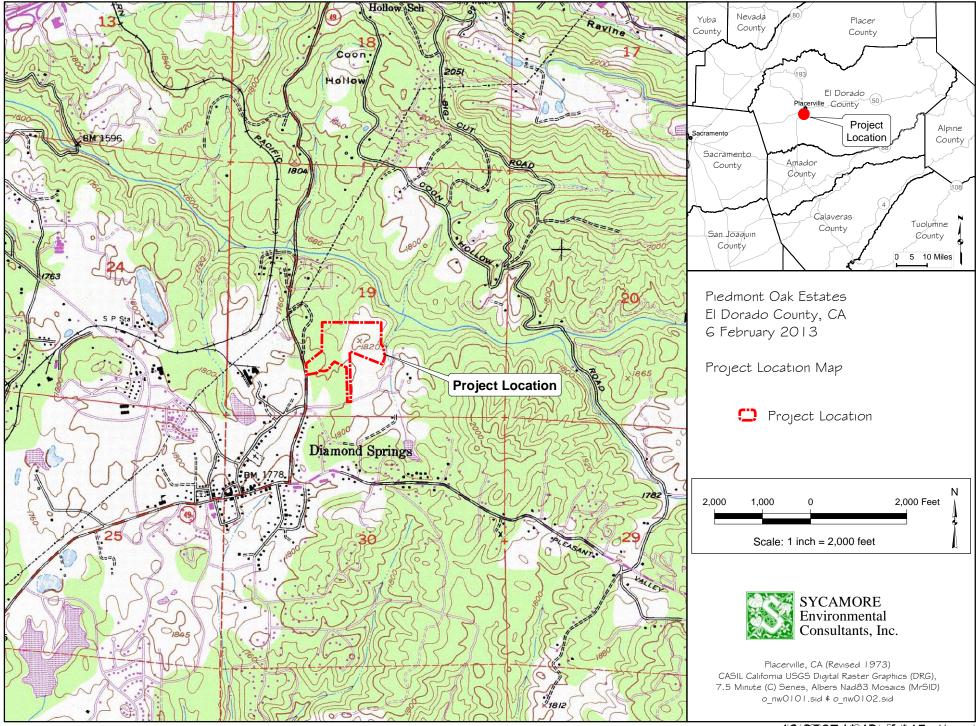
Contributors

Jenkins Family Bilisoly Bequest Grant <u>California Natural Diversity Database</u> <u>The Calflora Database</u> <u>Studio Simple</u> <u>TRC</u>

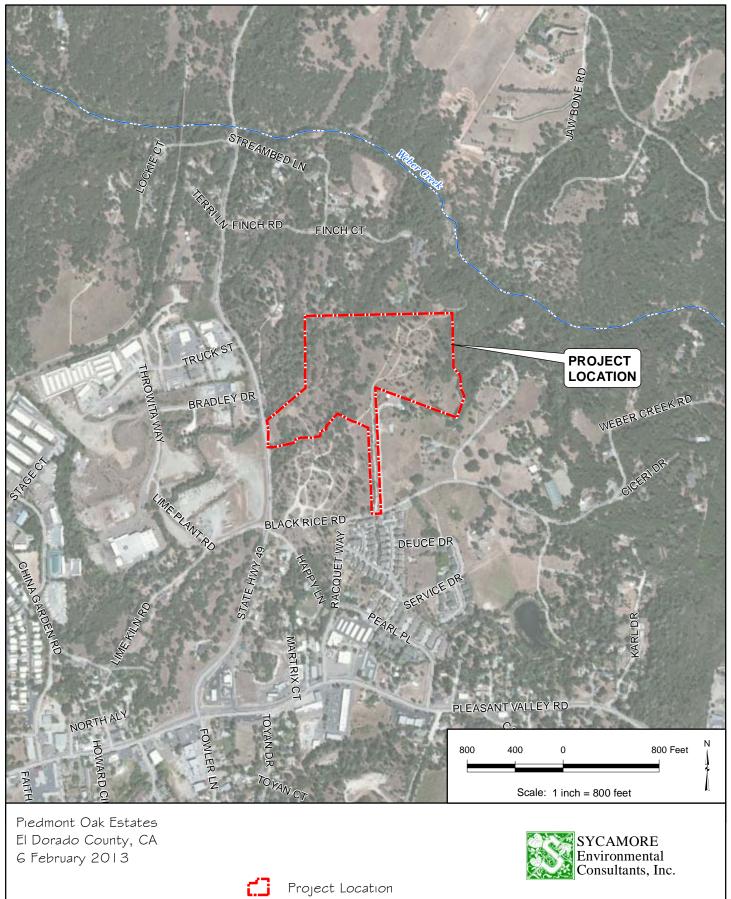
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Attachment B

Project Location Map Aerial Photograph Biological Resources Map Biological Impacts Map



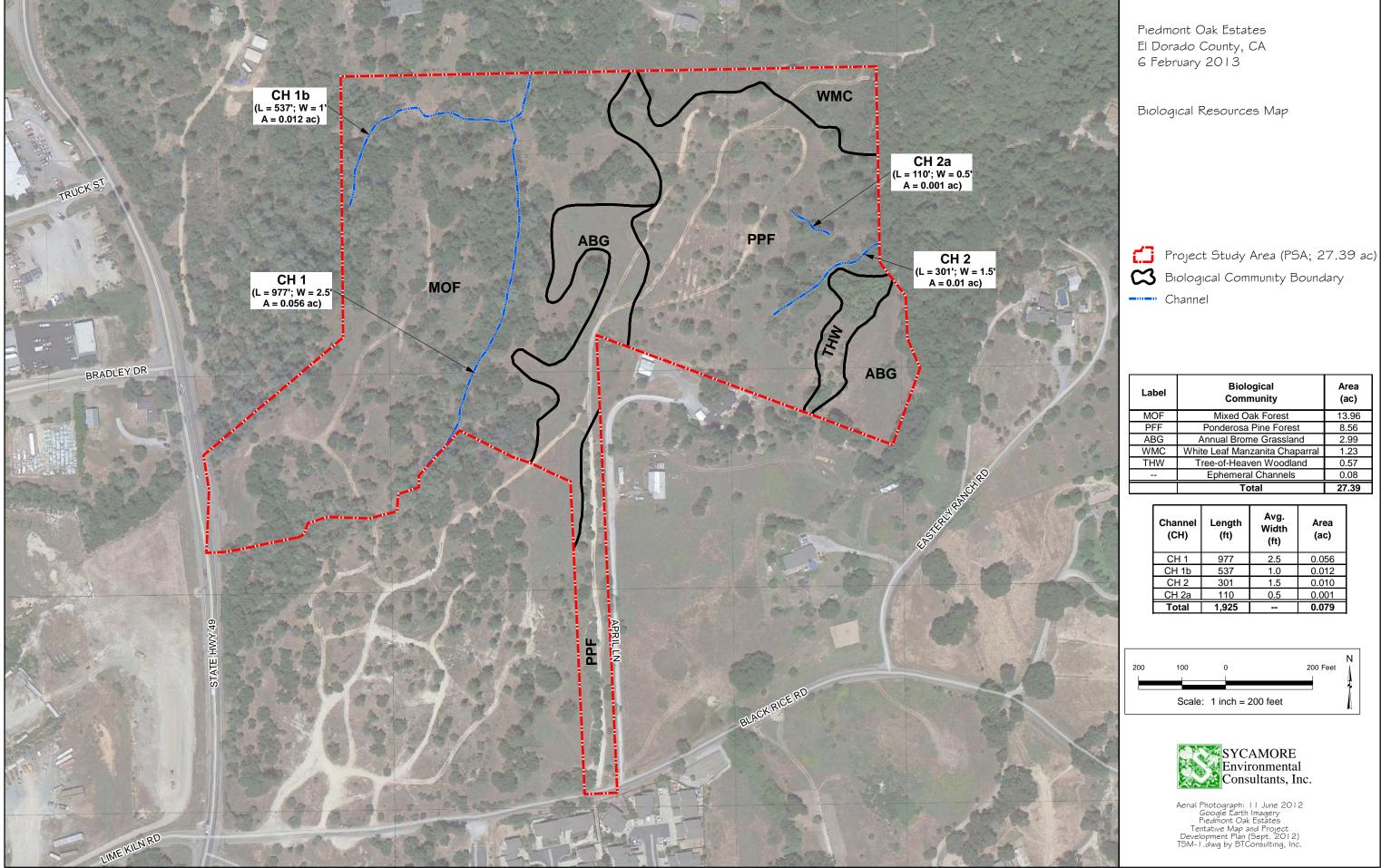
18-0367 42 tof 145 101 Map.mxd



Aerial Photograph: 20 July 2010 2010 NAIP Imagery, USDA FSA Imagery ArcGIS Imagery Basemap Layer

El Dorado County GIS Roads and River layer

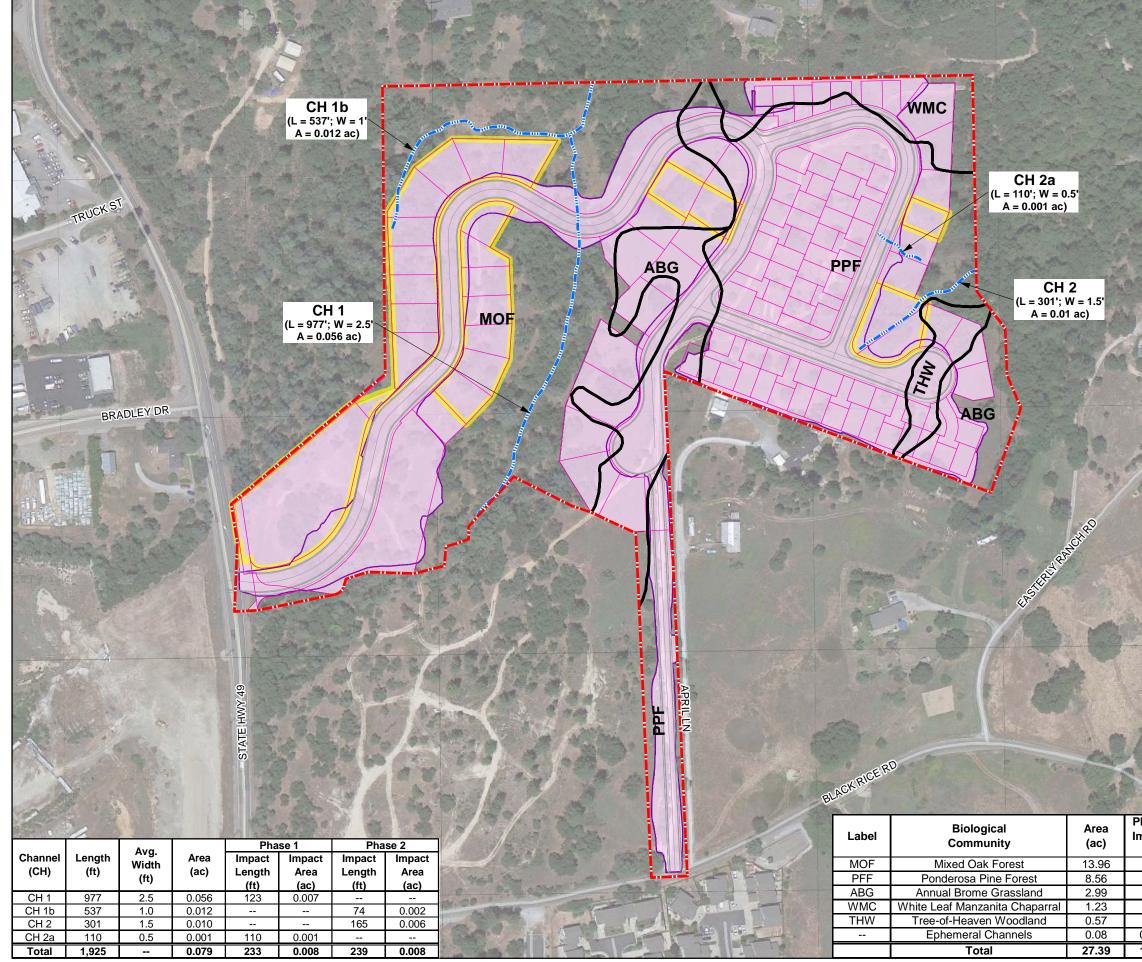
Aerial Photograph





Label	Biological Community	Area (ac)
MOF	Mixed Oak Forest	13.96
PFF	Ponderosa Pine Forest	8.56
ABG	Annual Brome Grassland	2.99
WMC	White Leaf Manzanita Chaparral	1.23
THW	Tree-of-Heaven Woodland	0.57
	Ephemeral Channels	0.08
	Total	27.39

Channel (CH)	Length (ft)	Avg. Width (ft)	Area (ac)
CH 1	977	2.5	0.056
CH 1b	537	1.0	0.012
CH 2	301	1.5	0.010
CH 2a	110	0.5	0.001
Total	1,925		0.079



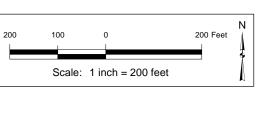


Piedmont Oak Estates El Dorado County, CA 6 February 2013

Biological Impacts Map



Project Study Area (PSA; 27.39 ac) Biological Community Boundary Channel (CH) Lot Lines Proposed Paved Roads Limits of Grading Phase II Lots





Aerial Photograph: 11 June 2012 Google Earth Imagery Piedmont Oak Estates Tentative Map and Project Development Plan (Sept. 2012) TSM-1,dwg by BTConsulting, Inc.

1820367mHt45 0Bi145 mpacts.mxd



SYCAMORE Environmental Consultants, Inc.

6355 Riverside Blvd., Suite C, Sacramento, CA 95831 916/ 427-0703 Fax 916/ 427-2175

2 July 2009

Mr. Jim Davies Piedmont Oak Estates, LLC 854 Diablo Road Danville, CA 94526-2760

Phone:925/855-8489Fax:925/943-7409

Subject: Botanical Survey Update for Piedmont Oak Estates, El Dorado County, CA

Dear Mr. Davies:

Sycamore Environmental prepared a Biological Resources Evaluation and Preliminary Jurisdictional Delineation Report (BRE) on 9 April 2007 for the Piedmont Oak Estates Project. The BRE identified the Project Study Area (PSA) as potential habitat for four special-status plants. Fieldwork for the BRE was conducted on 9 and 10 September 2006, at which time three of the four special-status plants were not evident and identifiable. This Botanical Survey Update was prepared to document the results of a botanical survey conducted in the PSA during the evident and identifiable period of the special-status plants with the potential to occur in the PSA.

Methods

For the preparation of the BRE, background studies were conducted that included reviewing maps, aerial photographs, lists of special-status species from the U.S. Fish and Wildlife Service (USFWS) and the California Department of Fish and Game (DFG), and reviewing the soils map of the PSA. General biological surveys were conducted that identified habitat in the PSA and the potential for special-status species occurrence. The results of these background studies are documented in the BRE. The PSA is in County rare plant mitigation area 2. The PSA is not in the recommended preserve boundary for the Pine Hill Plants (USFWS 2002). The BRE concluded potential habitat was present for the special-status plants in Table 1.

The botanical survey was conducted by Chuck Hughes, M.S., on 12 June 2009 and by Michael Bower, (M.S. in prep) and Jessica Easley on 24 June 2009. The survey followed the guidelines set forth by the Department of Fish and Game (DFG 2000) except that impacts and mitigation were not identified because project design was not available. Scientific nomenclature follows Hickman, ed. (1993).

Approximately 13 person-hours were spent in the field during the June 2009 botanical fieldwork. The PSA was searched by walking systematic transects. An additional approximately two hours were spent keying plant specimens collected in the field. Approximately 11.5 person-hours were spent in the field during the September 2006 general biological surveys. All plants found in the

PSA were identified to the taxonomic level necessary to determine legal status. A list of all plant species observed in the PSA is in Attachment A.

Special-Status Plant Species	Common Name	Federal Status ^a	State Status/ CNPS List ^b	Habitat Present? / Species Observed?
Arctostaphylos nissenana	Nissenan manzanita		/ 1B.2	Yes/ No
Calochortus clavatus var. avius	Pleasant Valley mariposa lily		/ 1B.2	Yes/ No
Clarkia biloba ssp. brandegeae	Brandegee's clarkia		/ 1B.2	Yes/ No
Viburnum ellipticum	Oval-leaved viburnum		/ 2.3	Yes/No

Table 1. Special-Status Plant Species with the Potential to Occur in the PSA

 a <u>Status</u>: E = Endangered; T = Threatened; P = Proposed; C = Candidate; R = California Rare; * = Possibly extinct; CH = Critical habitat designated.

^b <u>CNPS</u>: **1A** = Presumed Extinct in CA; **1B** = Rare or Endangered (R/E) in CA and elsewhere; **2** = R/E in CA and more common elsewhere; **3** = Need more information; **4** = Plants of limited distribution; **0.1** = Seriously endangered in CA; **0.2** = Fairly endangered in CA; **0.3** = Not very endangered in CA.

The June 2009 botanical fieldwork was conducted outside the published blooming period of Nissenan manzanita (CNPS 2009); however, Nissenan manzanita is a perennial evergreen shrub that is evident and identifiable year-round based on vegetative characteristics. The June 2009 botanical fieldwork was conducted during the published blooming period of the other special-status plants with the potential to occur in the PSA.

Results

No special-status plant species were observed in the PSA during the general biological surveys or the botanical survey conducted during the evident and identifiable period for the special-status plants with the potential to occur in the PSA.

Please contact me you have any questions.

Cordially,

charles Angles

Chuck Hughes, M.S. Botanist/ Biologist

c: Mr. Mike Smith, P.E. Thorne & Associates, Inc.

Attachment A. Plant Species Observed

Literature Cited

- California Department of Fish and Game (DFG). May 2000. Guidelines for assessing the effects of proposed projects on rare, threatened, and endangered plants and natural communities. Sacramento, CA. http://www.dfg.ca.gov/bdb/pdfs/guideplt.pdf
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- Hickman, J., ed. 1993. The Jepson manual: Higher plants of California. University of California Press, Berkeley, CA.
- Sycamore Environmental Consultants, Inc. 9 April 2007. Biological resources evaluation and preliminary jurisdictional delineation report for Piedmont Oak Estates, El Dorado County, CA. Prepared for Piedmont Oak Estates, LLC., Danville, CA.
- U.S. Fish and Wildlife Service (USFWS). 2002. Recovery plan for Gabbro soil plants of the Central Sierra Nevada Foothills. Portland, OR.

ATTACHMENT A.

Plant Species Observed

Piedmont Oak Estates

El Dorado County, CA

Family	Scientific Name	Common Name	Native/ Introduced
FERNS & ALLIES	5		
Dryopteridaceae	Dryopteris arguta	Wood fern	Ν
Polypodiaceae	Polypodium calirhiza	Polypody	N
Pteridaceae	Pentagramma triangularis	Goldback fern	N
CONIFERS	0 0		
Cupressaceae	Calocedrus decurrens	Incense cedar	N
Pinaceae	Pinus ponderosa	Pacific ponderosa pine	N
	Pinus sabiniana	Gray pine	N
	Pseudotsuga menziesii	Douglas fir	N
DICOTS	0		
Amaranthaceae	Amaranthus sp.	Pigweed	
Anacardiaceae	Toxicodendron diversilobum	Western poison oak	N
Apiaceae	Daucus carota	Carrot	I
Aplaceae	Daucus pusillus		N
	<i>Lomatium</i> sp.		N
	Sanicula bipinnatifida	Purple sanicle	N
	Sanicula crassicaulis	Sanicle	N
	Torilis arvensis	Hedge parsley	I
Asclepiadaceae	Asclepias fascicularis	Narrow-leaf milkweed	N
Asteraceae	Achillea millefolium	Yarrow	N
	Agoseris sp.		N
	Anaphalis margaritacea	Pearly everlasting	N
	Anthemis cotula	Mayweed	I
	Artemisia douglasiana	Mugwort	N
	Baccharis pilularis	Coyote brush	N
	Calycadenia sp.		N
	Carduus pycnocephalus	Italian thistle	Ι
	Centaurea solstitialis	Yellow star-thistle	Ι
	Chamomilla suaveolens	Pineapple weed	Ι
	Chondrilla juncea	Skeleton weed	Ι
	Cichorium intybus	Chicory	Ι
	Cirsium vulgare	Bull thistle	Ι
	Ericameria sp.	Goldenbrush	N
	Eriophyllum lanatum var. croceum	Woolly sunflower	N
	Filago californica	Herba impia	N
	Gnaphalium sp.	Cudweed	
	Grindelia hirsutula var. davyi	Gumplant	N
	Hemizonia fitchii	Fitch's hemizonia	N
	Holocarpha virgata		N
	Hypochaeris radicata	Rough cat's-ear	I
	Lactuca serriola	Prickly lettuce	Ι
	Leontodon taraxacoides	Hawkbit	Ι
	Madia sp. (2 species present)	Tarweed	N

Family	Scientific Name	Common Name	Native/ Introduced
	Micropus californicus var. californicus	Slender cottonweed	N
	Psilocarphus tenellus ssp. tenellus	Woolly-heads	N
	Sonchus asper ssp. asper	Prickly sow thistle	Ι
	Tragopogon sp.	Goat's beard	Ι
Bignoniaceae	<i>Catalpa</i> sp.		Ι
Brassicaceae	Brassica nigra	Black mustard	Ι
	Rorippa curvisiliqua	Water cress	Ν
	Sisymbrium officinale	Hedge mustard	Ι
Boraginaceae	Plagiobothrys sp.	Popcornflower	Ν
Caprifoliaceae	Lonicera subspicata var. denudata	Honeysuckle	Ν
	Lonicera interrupta	Honeysuckle	Ν
	Symphoricarpos albus var. laevigatus	Snowberry	Ν
Caryophyllaceae	Cerastium glomeratum	Mouse-ear chickweed	Ι
	Scleranthus annuus	Knawel	Ι
	Spergularia sp.	Sand-spurrey	
	Stellaria media	Common chickweed	Ι
Convolvulaceae	Calystegia occidentalis	Morning glory	Ν
Ericaceae	Arctostaphylos viscida ssp. viscida	Manzanita	N
Euphorbiaceae	Eremocarpus setigerus	Dove weed; Turkey mullein	N
Fabaceae	Lathyrus latifolius	Perennial sweet pea	Ι
	Lotus micranthus		Ν
	Lotus purshianus var. purshianus		Ν
	<i>Lupinus</i> sp.	Lupine	N
	Trifolium dubium	Little hop clover	Ι
	Trifolium glomeratum	Clover	Ι
	Trifolium hirtum	Rose clover	Ι
	Trifolium microcephalum	Clover	N
	Trifolium subterraneum	Subterranean clover	Ι
	Trifolium willdenovii	Clover	N
	Vicia sativa ssp. sativa	Common vetch	Ι
	Vicia villosa ssp. villosa	Hairy vetch	Ι
Fagaceae	Quercus chrysolepis	Maul oak	N
	Quercus douglasii	Blue oak	N
	Quercus kelloggii	California black oak	N
	Quercus lobata	Valley oak	N
	Quercus wislizenii var. wislizenii	Interior live oak	N
Gentianaceae	Centaurium muehlenbergii	Centaury	N
Geraniaceae	Erodium botrys	Filaree	Ι
	Erodium cicutarium	Filaree	Ι
	Geranium dissectum	Cranesbill	Ι
	Geranium molle	Cranesbill	Ι
Hippocastanaceae	Aesculus californica	California buckeye	N
Hydrophyllaceae	Eriodictyon californicum	Yerba santa	N
Hypericaceae	Hypericum perforatum	Klamathweed	Ι
Lamiaceae	Lamium amplexicaule	Dead nettle	Ι
	Mentha sp.	Mint	
	Monardella villosa ssp. villosa	Coyote-mint	N
	Scutellaria californica	Skullcap	N
	<i>Stachys</i> sp.	Hedge nettle	N
	Trichostema lanceolatum	Vinegar weed	N
Lythraceae	Lythrum hyssopifolium		I

Family	Scientific Name	Common Name	Native/ Introduced
Malvaceae	Sidalcea malviflora ssp. asprella	Checker mallow	N
Onagraceae	Clarkia biloba ssp. biloba		N
0	Clarkia purpurea ssp. quadrivulnera	Four-spot	N
	Epilobium brachycarpum	Fireweed	N
	<i>Epilobium</i> sp.	Fireweed	
Papaveraceae	Eschscholzia californica	California poppy	N
Plantaginaceae	Plantago lanceolata	English plantain	Ι
Polemoniaceae	Allophyllum diaricatum		N
	Navarretia intertexta ssp. intertexta		N
Polygonaceae	Polygonum arenastrum	Common knotweed	Ι
	Polygonum sp.	Knotweed	
	Rumex acetosella	Sheep sorrel	Ι
	Rumex conglomeratus	Dock	Ι
	Rumex crispus	Curly dock	Ι
	Rumex pulcher	Fiddle dock	I
Portulacaceae	Claytonia perfoliata ssp. perfoliata	Miner's lettuce	N
Primulaceae	Anagallis arvensis	Scarlet pimpernel	I
Ranunculaceae	Delphinium variegatum ssp. variegatum	Royal larkspur	N
	Ranunculus muricatus	Buttercup	Ι
Rhamnaceae	Ceanothus cuneatus var. cuneatus	Buck brush	N
	Rhamnus ilicifolia	Holly-leaved redberry	N
	Rhamnus tomentella ssp. tomentella	Hoary coffeeberry	N
Rosaceae	Aphanes occidentalis		N
	Heteromeles arbutifolia	Toyon	N
	Potentilla glandulosa	Cinquefoil	N
	Prunus sp.		
	Pyrus communis	Common pear	Ι
	Rubus discolor	Himalayan blackberry	I
	Sanguisorba minor ssp. muricata	Garden burnet	I
Rubiaceae	Galium aparine	Goose grass	N
	Galium murale	Tiny bedstraw	I
	Galium parisiense	Wall bedstraw	I
	Galium porrigens var. tenue	Climbing bedstraw	N
	Sherardia arvensis	Field madder	I
Salicaceae	<i>Salix</i> sp.	Willow	N
Scrophulariaceae	Collinsia sp.		N
Ser opnand accur	Kickxia elatine	Fluellin	I
	Mimulus guttatus	Yellow monkeyflower	N
	Verbascum blattaria	Moth mullein	I
	Verbascum thapsus	Woolly mullein	I
Simaroubaceae	Ailanthus altissima	Tree of heaven	I
Solanaceae	Solanum sp.	Nightshade	
Verbenaceae	Verbena litoralis	Verbena	Ι
Viscaceae	Arceuthobium occidentale	Foothill-pine dwarf mistletoe	N
,	Phoradendron villosum	Oak mistletoe	N
Vitaceae	Vitis californica	California wild grape	N

Scientific Name	Common Name	Native/ Introduced
	1	1
Carex sp.	Sedge	Ν
Cyperus eragrostis	Nut sedge	N
Eleocharis macrostachya	Spikerush	N
Sisyrinchium bellum	Blue-eyed-grass	N
Juncus balticus	Baltic rush	N
Juncus bufonius	Toad rush	N
Juncus occidentalis	Rush	N
Juncus phaeocephalus var. paniculatus	Rush	N
Luzula comosa	Hairy wood rush	N
Brodiaea elegans ssp. elegans	Harvest brodiaea	N
Calochortus albus	White globe lily	N
Chlorogalum pomeridianum var. pomeridianum	Soap plant	Ν
Dichelostemma multiflorum	Wild hyacinth	N
Dichelostemma volubile	Twining brodiaea	N
Aegilops triuncialis	Barbed goatgrass	Ι
	0 0	
		Ι
	Wild oat	Ι
Avena sativa	Cultivated oat	Ι
Briza minor	Quaking grass	Ι
Bromus diandrus		Ι
Bromus hordeaceus	Soft brome	Ι
	Brome	N
*	Foxtail chess	Ι
		Ι
		Ι
2	<u> </u>	N
		N
Elymus multisetus	2	N
		Ι
		Ι
		Ι
		N
		N
~ ~ ~		N
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		I
··· · ·		I
Vulpia myuros var. myuros	Vulpia	I
	Carex sp.Cyperus eragrostisEleocharis macrostachyaSisyrinchium bellumJuncus bufoniusJuncus bufoniusJuncus occidentalisJuncus phaeocephalus var. paniculatusLuzula comosaBrodiaea elegans ssp. elegansCalochortus albusChlorogalum pomeridianum var. pomeridianumDichelostemma multiflorumDichelostemma volubileAegilops triuncialisAgrostis sp.Aira caryophylleaAvena fatuaAvena sativaBromus diandrusBromus diandrusBromus diandrusBromus laevipesBromus laevipesBromus nadritensis ssp. rubensCynodon dactylonCynosurus echinatusDeschampsia danthonioidesElymus glaucusElymus multisetusGastridium ventricosumHordeum marinum ssp. gussoneanumLolium multiflorumMelica torreyanaMuhlenbergia rigensNassella pulchraPhalaris sp.Poa bulbosaPolypogon monspeliensisTaeniatherum caput-medusae	Carex sp.SedgeCyperus eragrostisNut sedgeEleocharis macrostachyaSpikerushSisyrinchium bellumBlue-eyed-grassJuncus balticusBaltic rushJuncus bolfoniusToad rushJuncus occidentalisRushJuncus phaeocephalus var. paniculatusRushJuncus phaeocephalus var. paniculatusRushLuzula comosaHairy wood rushBrodiaea elegans ssp. elegansHarvest brodiaeaCalochortus albusWhite globe lilyChlorogalum pomeridianum var. pomeridianumSoap plantDichelostemma multiflorumWild hyacinthDichelostemma volubileTwining brodiaeaAegilops triuncialisBarbed goatgrassArena caryophylleaSilver European hairgrassAvena fatuaWild oatAvena sativaCultivated oatBromus diadrusRipgut grassBromus laevipesBromeBromus laevipesBromeBromus nadritensis ssp. rubensFoxtail chessCynodon dactylonBermuda grassCynodon dactylonBermuda grassElymus glaucusBile wildryeElymus glaucusBig squirreltailGastridium ventricosumNit grassHordeum marinum ssp. gussoneanumMedicerranean barleyLolium multiflorumItalian ryegrassPorabulbosaPurple needlegrassPoabulosaPurple needlegrassPoabulbosaPurple needlegrassPoabulbosaPurple needlegrassPoabulbosaPurple needlegra



DEPARTMENT OF THE ARMY

U.S. ARMY ENGINEER DISTRICT, SACRAMENTO CORPS OF ENGINEERS 1325 J STREET SACRAMENTO CA 95814-2922

RECEIVED

REPLY TO ATTENTION OF

April 24, 2013

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SYCA	MORE	EN	IVI		

CONSULTANTS.

Regulatory Division SPK-2009-00928

Mr. Jim Davies Piedmont Oak Estates, LLC 854 Diablo Road Danville, California 94526-2760

Dear Mr. Davies:

We are responding to your April 9, 2013, request for a preliminary jurisdictional determination (JD), in accordance with our Regulatory Guidance Letter (RGL) 08-02, for the Piedmont Oak Estates site. The approximately 27.39-acre site is located near Weber Creek, Section 19, Township 10 North, Range 11 East, Mount Diablo Meridian, Latitude 38.7025313162938°, Longitude -120.808560315998°, Town of Diamond Spring, El Dorado County, California.

Based on available information, we concur with the amount and location of wetlands and/or other water bodies on the site as depicted on the enclosed 16 April, 2013, *Piedmont Oak Estates, El Dorado County, CA*, prepared by Sycamore Environmental Consultants, Inc (enclosure 1). The approximately 0.0709 acre of other water bodies present within the survey area are potential waters of the United States regulated under Section 404 of the Clean Water Act.

A copy of our RGL 08-02 Preliminary Jurisdictional Determination Form for this site is enclosed (enclosure 2). Please sign and return a copy of the completed form to this office. Once we receive a copy of the form with your signature we can accept and process a Pre-Construction Notification or permit application for your proposed project.

You should not start any work in potentially jurisdictional waters of the United States unless you have Department of the Army permit authorization for the activity. You may request an approved JD for this site at any time prior to starting work within waters. In certain circumstances, as described in RGL 08-02, an approved JD may later be necessary.

You should provide a copy of this letter and notice to all other affected parties, including any individual who has an identifiable and substantial legal interest in the property.

This preliminary determination has been conducted to identify the potential limits of wetlands and other water bodies which may be subject to Corps of Engineers' jurisdiction for the particular site identified in this request. A Notification of Appeal Process and Request for

Appeal Form is enclosed to notify you of your options with this determination (enclosure 3). This determination may not be valid for the wetland conservation provisions of the Food Security Act of 1985. If you or your tenant are U.S. Department of Agriculture (USDA) program participants, or anticipate participation in USDA programs, you should request a certified wetland determination from the local office of the Natural Resources Conservation Service, prior to starting work.

We appreciate your feedback. At your earliest convenience, please tell us how we are doing by completing the customer survey on our website under *Customer Service Survey*.

Please refer to identification number SPK-2009-00928 in any correspondence concerning this project. If you have any questions, please contact Mr. Peck Ha at our California North Branch Office, Regulatory Division, Sacramento District, U.S. Army Corps of Engineers, 1325 J Street, Room 1350, Sacramento, California 95814-2922, email *Peck. Ha@usace.army.mil*, or telephone 916-557-6617. For more information regarding our program, please visit our website at www.spk.usace.army.mil/Missions/Regulatory.aspx.

Sincerely,

in got and Filler Nancy Arcady Haley

Chief, California North Branch

Enclosures

Copy Furnished with enclosures:

Ms. Lillian Macleod, El Dorado County Planning Department, 2850 Fairlane Court, Placerville, California 95667

Copies Furnished without enclosures:

- Mr. Chuck Hughes, Sycamore Environmental Consultants, Inc., 6355 Riverside Boulevard, Suite C, Sacramento, California 95831
- Ms. Elizabeth Lee, California Regional Water Quality Control Board, Central Valley Region, 11020 Sun Center Drive #200, Rancho Cordova, California 95670-6114
- Ms. Tina Bartlett, California Department of Fish and Game, Region 2, 1701 Nimbus Drive, Rancho Cordova, California 95670-4599
- U.S. Fish and Wildlife Service, Endangered Species Division, 2800 Cottage Way, Suite W2605, Sacramento, California 95825-3901
- Mr. Jason Brush, Environmental Protection Agency, WRT-8, 75 Hawthorne Street, San Francisco, California 94105-3922

Biological Resources Evaluation and Preliminary Jurisdictional Delineation Report for Piedmont Oak Estates

EL Dorado County, CA

Prepared by:

Sycamore Environmental Consultants, Inc.

6355 Riverside Blvd., Suite C Sacramento, CA 95831-1143 Phone: 916/ 427-0703 Fax: 916/ 427-2175 Contact: R. John Little, Ph.D.

Prepared for:

Piedmont Oak Estates, LLC 854 Diablo Road Danville, CA 94526-2760 Phone: 925/855-8489 Fax: 925/943-7409 Contact: Mr. Jim Davies

9 April 2007

Biological Resources Evaluation and Preliminary Jurisdictional Delineation Report for Piedmont Oak Estates

El Dorado County, CA

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Appendix B. USFWS Online Species List.

Appendix C. Species Evaluated Table.

Appendix D. Plant and Wildlife Species Observed.

Appendix E. Photographs of the Project Study Area.

Appendix F. Wetland and Channel Data Sheets.

I. SUMMARY OF FINDINGS AND CONCLUSIONS

No state- or federal-listed species were observed in the Piedmont Oak Estates project study area (PSA). The PSA does not contain habitat for state- or federal-listed wildlife species. The PSA does not contain habitat for state and or federal-listed plant species.

The PSA contains potential habitat for special-status plant species including Pleasant Valley mariposa lily, Brandegee's clarkia, and oval-leaved viburnum. The PSA is located in El Dorado County rare plant mitigation area 2 (El Dorado Irrigation District Service Area).

Potential wetlands and other waters of the U.S. occur in the PSA. Dredging or fill activities in wetlands and other waters of the U.S. require a section 404 permit from the U.S. Army Corps of Engineers (Corps), a section 401 Water Quality Certification from the Regional Water Quality Control Board (RWQCB) and a 1602 Streambed Alteration Agreement from the California Department of Fish and Game (DFG).

II. INTRODUCTION

A. Purpose of Report

This report documents biological resources, wetlands, and other waters of the U.S. in the PSA. This report can be used in support of state and federal permit applications and CEQA documents. This report does not evaluate project impacts or identify mitigation measures.

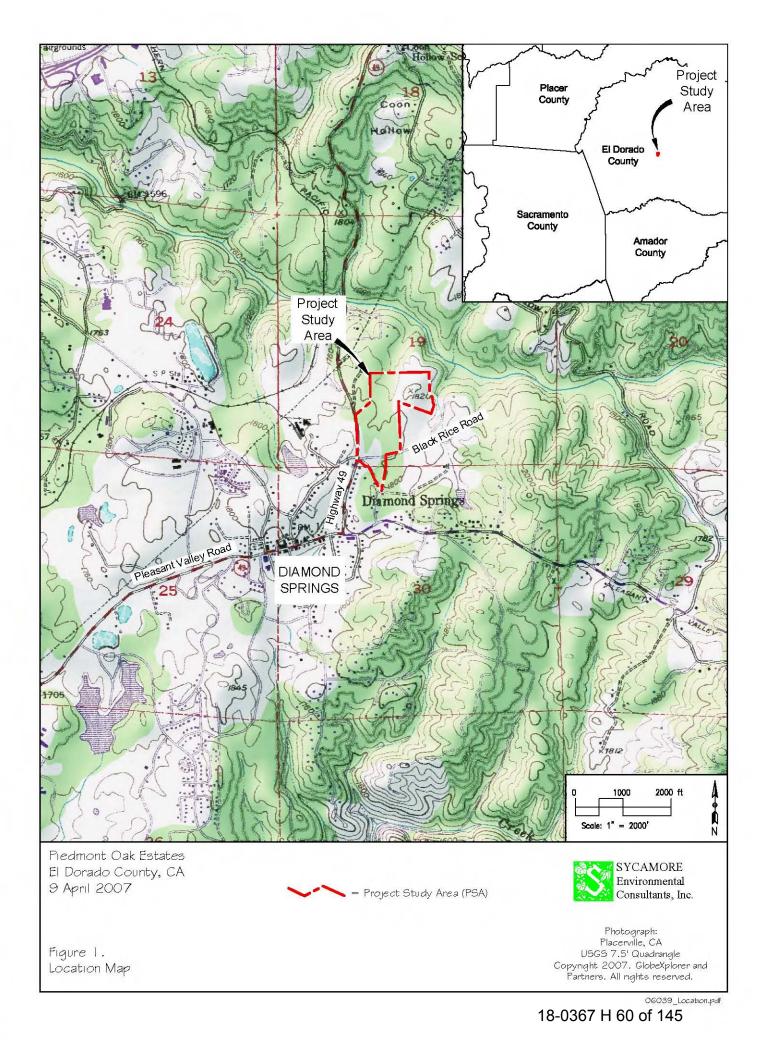
B. Project Location

The 46.36 ac PSA is located east of the intersection of State Highway 49 and Black Rice Road north of the community of Diamond Springs in El Dorado County, CA (Figure 1). The PSA is located on the Placerville USGS topographic quadrangle (T10N, R11E, Sections 19 and 30). The PSA is in the South Fork American River watershed (hydrologic unit code 18020129). The PSA centroid is 38N 42' 05.94" and 120W 48' 34.89" (UTM zone 10, NAD 1983).

The PSA is located in El Dorado County rare plant mitigation area 2. The PSA is located outside the El Dorado County Important Biological Community (IBC) and Ecological Preserve areas (El Dorado County 2004).

To access the PSA from Sacramento, take State Highway 50 east and take Exit 44a towards Diamond Springs. Turn right onto Missouri Flat Road. Turn left at the intersection of Missouri Flat Road and State Highway 49. Veer left at the intersection of State Highway 49 and Pleasant Valley Road. Proceed north on State Highway 49 and turn right onto Black Rice

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Road. The PSA is located immediately east of the intersection of State Highway 49 and Black Rice Road on the north and south side of Black Rice Road.

C. Project Applicant and Engineer

Piedmont Oak Estates, LLC 854 Diablo Road Danville, CA 94526-2760 Contact: Mr. Jim Davies Phone: 925/ 855-8489 Fax: 925/ 943-7409 Gene E. Thorne & Associates, Inc. 3025 Alhambra Drive Cameron Park, CA 95682 Contact: Mr. Gene Thorne Phone: 916/985-7745 Fax: 530/676-4205

D. Project Description

Project design has not yet been completed.

III. STUDY METHODS

A. Studies Conducted

Studies included conducting field surveys; obtaining and analyzing data from state and federal agencies; and reviewing maps, aerial photographs, and published and unpublished literature. A preliminary jurisdictional delineation was conducted to determine if potential wetlands or other waters of the U.S. occur in the PSA.

B. Literature Search

Information on the biology, distribution, taxonomy, legal status, and other aspects of the special-status species was obtained from documents on file in the library of Sycamore Environmental. Standard references used for the biology and taxonomy of plants included Abrams (1923-1960); California Native Plant Society (2005); California Department of Fish and Game (2003, 2006b, d); Hickman, ed. (1993); Mason (1957); Munz (1959); and Sawyer and Keeler-Wolf (1995). Standard references used for the biology and taxonomy of wildlife included Behler and King (1979); California Department of Fish and Game (2006a, 5c); Ehrlich et al. (1988); Jameson and Peeters (2004); Jennings and Hayes (1994); Mayer and Laudenslayer, eds. (1988); McGinnis (1984); Peterson (1990); Sibley (2003); Stebbins (2003); Udvardy (1977); Verner and Boss (1980); Whitaker (1980); and Zeiner et al. (1988; 1990a, b).

A search of the California Natural Diversity Database (database release date 6 September 2006) was conducted for the Placerville USGS quad and the eight surrounding quads to determine if known records of federal- or state-listed species occur in, or in the vicinity of the PSA (Appendix A).

Sycamore Environmental obtained a list, dated 13 October 2006, from the U.S. Fish and Wildlife Service (USFWS), Sacramento Field Office that identifies special-status species that potentially occur in or could be affected by projects on the Placerville USGS quad (Appendix B)

C. Survey Dates and Personnel

Fieldwork for the jurisdictional delineation and biological survey was conducted by Adam Forbes, M.S. on 9 and 10 September 2006.

D. Survey Methods

Field surveys consisted of walking through the PSA to assess potential habitat for specialstatus species, sensitive communities, and potential wetlands and other waters of the U.S. Plant and animal species and vegetative communities were identified and recorded. A list of plant and wildlife species observed during the surveys is in Appendix D. Photographs of the PSA are in Appendix E.

E. Jurisdictional Delineation

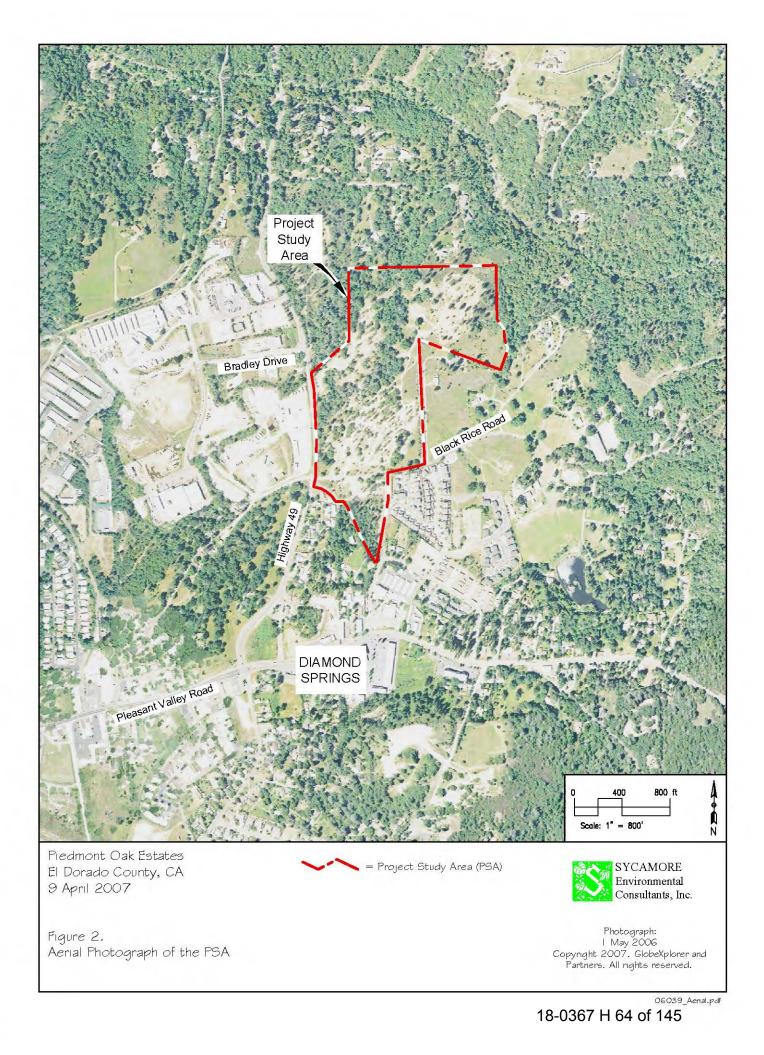
The jurisdictional delineation was conducted in accordance with Corps guidelines (1987). The results are in Section VI of this document.

F. Problems Encountered and Limitations That May Influence Results

Biological surveys of the PSA were conducted outside the documented blooming period of Pleasant Valley mariposa lily (*Calochortus clavatus* var. *avius*), Brandegee's clarkia (*Clarkia biloba* ssp. *brandegeae*), and oval-leaved viburnum (*Viburnum ellipticum*). These species may not have been detected during the general biological survey of the PSA. No other problems or limitations were encountered that may have influenced the results.

G. Mapping

Biological and potential jurisdictional features observed by Sycamore Environmental were mapped using a Trimble GeoXT[™] sub-meter accurate GPS. The 1 May 2006 aerial photo in Figures 2 and 3 was downloaded from the GlobeXplorer[®] website. The AutoCAD[®] base map used for Figure 5 was provided by Gene E. Thorne & Associates, Inc. The GPS data were exported to AutoCAD[®] and placed on the aerial photo (Figure 3) and AutoCAD[®] base map (Figure 5).



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IV. ENVIRONMENTAL SETTING

The PSA is located in the western foothills of the Sierra Nevada north of the community of Diamond Springs in El Dorado County, CA. Elevation in the PSA ranges from 1,735 to 1,835 ft above sea level. Topography in the PSA consists of gentle to moderately steep slopes of varying aspect. Land use adjacent to the PSA consists of residential housing and undeveloped land.

A. Biological Communities and Other Features in the PSA

Biological communities are defined by species composition and relative abundance. Biological communities described below correlate where applicable with the list of California terrestrial natural communities recognized by the California Natural Diversity Database (DFG 2003) and the El Dorado County General Plan EIR (2004). Biological communities and other features are mapped in Figure 3; their acreages are in Table 1.

Feature Type	DFG Code ¹	Acreage ³ (ac)	
Biological Community			
Mixed Oak Woodland	71.000.00	Blue Oak-Foothill Pine	19.16
California Annual Grassland	42.040.00	Annual Grassland	4.43
Manzanita Chaparral	37.300.00	Mixed Chaparral	1.24
Channels			0.21
Seasonal Wetland			0.12
Other Features			·
Partially Cleared Land			21.20
Total:			46.36

Table 1.	Biological	communities	and	other	features	in t	the PSA.
14010 11	Diological	e o minimune o	un a	00000	reactores		

¹ DFG 2003

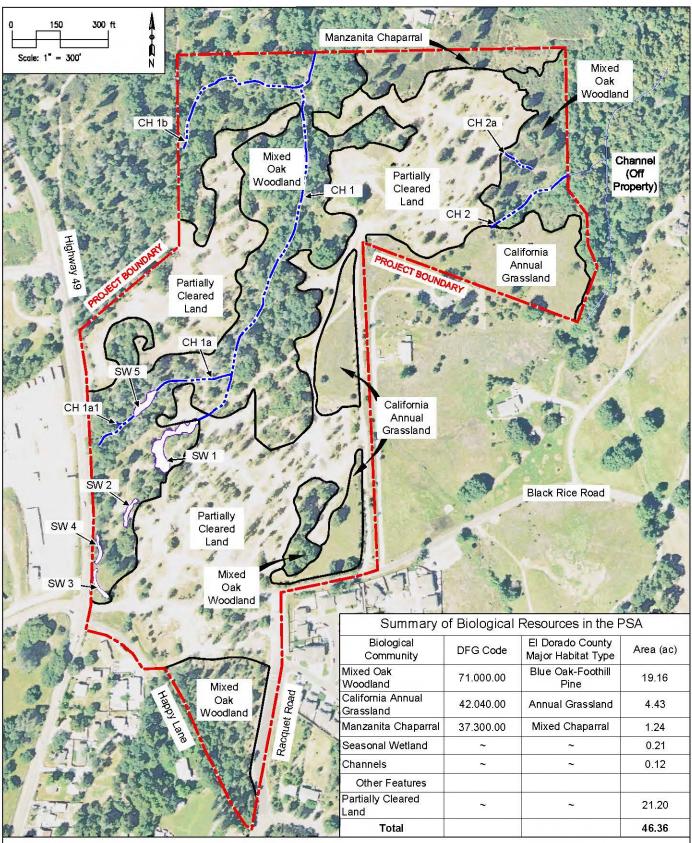
² El Dorado County 2004

 3 Acreages were calculated using $\text{AutoCAD}^{\circledast}$ functions.

1. Mixed Oak Woodland

This biological community occurs in the west central, northwest, northeast, and southern portions of the PSA. Tree species present include interior live oak (*Quercus wislizenii var. wislizenii*), blue oak (*Quercus douglasii*), Valley oak (*Quercus lobata*), California black oak (*Quercus kelloggii*), Pacific ponderosa pine (*Pinus ponderosa*), and foothill pine (*Pinus sabiniana*). Canopy cover in this community is generally open. Native shrubs present include coyote brush (*Baccharis pilularis*), buck brush (*Ceanothus cuneatus* var. *cuneatus*), western poison oak (*Toxicodendron diversilobum*), manzanita (*Arctostaphylos* sp.), and toyon (*Heteromeles arbutifolia*). Species present in the herb layer include hedgehog dogtail

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Pledmont Oak Estates El Dorado County, CA 9 April 2007

Figure 3. Biological Resources Map



SYCAMORE Environmental Consultants, Inc.

Photograph: I May 2006 Copyright 2006. GlobeXplorer and Partners. All rights reserved

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(*Cynosurus echinatus*), blue wildrye (*Elymus glaucus*), *Torilis arvensis*, wall bedstraw (*Galium parisiense*), and silver European hairgrass (*Aira caryophyllea*). Mixed oak woodland is given no special designation by DFG (2003). Oak woodlands under County jurisdiction are subject to California Public Resources Code (PRC) §21083.4.

2. California Annual Grassland

This biological community occurs in the eastern portion of the PSA. Species present include hedgehog dogtail, blue wildrye, wild oat (*Avena fatua*), Italian ryegrass (*Lolium multiflorum*), soft brome (*Bromus hordeaceus*), silver European hairgrass, *Torilis arvensis*, nit grass (*Gastridium ventricosum*), yellow star-thistle (*Centaurea solstitialis*), rose clover (*Trifolium hirtum*), and Klamath weed (*Hypericum perforatum*). Scattered trees and scrub species present in this community included pear (*Pyrus* sp.), coyote brush, tree of heaven (*Ailanthus altissima*), and buck brush. California annual grassland is given no special designation by DFG (2003).

3. Manzanita Chaparral

This community occurs in a small area in the north central portion of the PSA. Manzanita is the dominant shrub species. Other shrub species present include coyote brush and buck brush. The herb layer is poorly developed due to the closed canopy of the shrub layer. Manzanita chaparral is given no special designation by DFG (2003).

4. Channels

Six ephemeral channels occur in the PSA. No riparian corridor is associated with the six ephemeral drainages in the PSA. Species present in and adjacent to the ephemeral channels include western poison oak, interior live oak, and California buckeye (*Aesculus californica*). Channels in the PSA are potential jurisdictional features and are discussed Section VI.H.

5. Seasonal Wetland

Five seasonal wetlands occur in the PSA. Closed depressional wetlands, such as vernal pools, do not occur in the PSA. Seasonal wetlands in the PSA consist of open sloped depressions that drain to the adjacent ephemeral channels. Species present in seasonal wetland habitat include Himalayan blackberry, deer grass (*Muhlenbergia rigens*), curly dock (*Rumex crispus*), toad rush (*Juncus bufonius*), Italian ryegrass, Baltic rush (*Juncus balticus*), *Lythrum hyssopifolium*, quaking grass (*Briza minor*), spikerush (*Eleocharis macrostachya*), and nutsedge (*Cyperus eragrostis*). Seasonal wetlands in the PSA are potential jurisdictional features and are discussed Section VI.H.

6. Partially Cleared Land

Prior to the September 2006 biological surveys approximately 21.20 ac of the PSA had been partially cleared of vegetation. A review of aerial photographs indicates that the prior to the removal vegetation in these areas approximately 50% of the area was composed of mixed oak

woodland. Approximately 40% of the area was likely vegetated with manzanita chaparral and scattered pine trees. The remaining 10% of the area was composed of nonnative grassland. Not all of the vegetation was cleared from the 21.20 ac. Scattered tree and shrub species present include Ponderosa pine, blue oak, interior live oak, coyote brush, and buck brush. Ruderal herbaceous species present include hedgehog dogtail, dove weed (*Eremocarpus setigerus*), vinegar weed (*Trichostema lanceolatum*), and woolly mullein (*Verbascum thapsus*). Multiple unpaved roads occur in the areas were vegetation was removed. Most of these roads appear to have been created during vegetation removal activities.

B. The Existing Level of Disturbance

The PSA is composed of undeveloped land located in a rural residential setting. A total of 21.20 ac of the PSA have been partially cleared of vegetation. Two ditches, likely associated with previous mining activities, occur in the PSA. Piles of spoils associated with previous mining activities occur at various locations in the PSA.

V. BIOLOGICAL RESOURCES IN THE PROJECT STUDY AREA

A. Determination of Special-Status Species in the Project Study Area

File data from CNDDB records, USFWS, and field surveys were used to determine the species that could occur in the PSA. The CNDDB/ RareFind summary report for the Placerville quad and the eight adjacent quads is in Appendix A. The USFWS list of special-status species that could occur on the Placerville quad and in El Dorado County is in Appendix B. Field surveys were conducted to determine if habitat for special-status species identified in file data is present in the PSA. Special-status species for which suitable habitat is present are listed in Table 2.

B. Special-Status Species not in the Project Study Area

Special-status species for which suitable habitat is not present, or whose distributional limits preclude the possibility of their occurrence in the PSA, are not discussed further in this report. These species are evaluated in Appendix C.

Special-Status Species	Common Name	Federal Listing Status/ USFWS Codes ^a	State Listing Status/ DFG Code or CNPS List ^b	Source ^c	Habitat Present? / Species Observed?
Amphibian					
Rana aurora draytonii	California red- legged frog	T CSC		1, 2	No/ No
Birds					
Migratory birds/ Birds of prey/		/	/	3	Yes/Yes
Plants		USFWS	State/ CNPS		
Arctostaphylos nissenana	Nissenan Manzanita		/ 1B.2	2	
Calochortus clavatus var. avius	Pleasant Valley mariposa lily		/ 1B.2	2	Yes/ No
Clarkia biloba ssp. brandegeae	Brandegee's clarkia		/ 1B.2	2	Yes/ No
Viburnum ellipticum	Oval-leaved viburnum		/ 2.3	2	Yes/ No

Table 2	Special-status	species fo	r which	suitable	hahitat	occurs in the PSA
1 abic 2.	special-status	species 10	which	suitable	naonai	occurs in the LSA

^a <u>Listing Status</u> Federal status determined from USFWS letter. State status determined from DFG (2006 c, d). Codes used in table are: $\mathbf{E} = \text{Endangered}; \mathbf{T} = \text{Threatened}; \mathbf{P} = \text{Proposed}; \mathbf{C} = \text{Candidate}; \mathbf{R} = \text{California Rare}; \mathbf{CH} = \text{Critical Habitat}$

^b<u>Other Codes</u> Other codes determined from USFWS letter, DFG (2006 a, b), and CNPS (2005). Codes used in table are as follows: CSC = DFG Species of Special Concern

CNPS List (plants only): 1B = Rare or Endangered (R/E) in CA and elsewhere; 2 = R/E in CA and more common elsewhere

CNPS List Decimal Extensions: .1 = Seriously endangered in California (over 80% of occurrences threatened / high degree and immediacy of threat); .2 = Fairly endangered in California (20-80% occurrences threatened); .3 = Not very endangered in California (<20% of occurrences threatened or no current threats known).

^c <u>Sources 1</u> = From USFWS letter. 2 = From CNDDB/ RareFind. 3 = Observed during survey.

C. Evaluation of Special-Status Wildlife Species

1. Amphibians

California red-legged frog (Rana aurora draytonii)

HABITAT AND BIOLOGY: CRLF habitat combines both a specific aquatic and riparian component. The adults typically require dense, shrubby, or emergent riparian vegetation closely associated with deep (>2.3 ft) still or slowly moving water. Deep-water pools with dense stands of overhanging willows intermixed with cattails support the highest densities of CRLF. Well-vegetated terrestrial areas within a riparian corridor may provide important sheltering habitat during the winter. Frogs spend considerable time resting and feeding in riparian vegetation when it is present (USFWS 2002a; 2005).

CRLF require water to breed. Female CRLF deposit egg masses on emergent vegetation so that the masses float on the surface of the water. Breeding habitats for CRLF vary from deep still or slow moving water with dense riparian or emergent vegetation to shallow sections of streams that are not covered with riparian vegetation. While frogs successfully breed in streams, high flows and cold temperatures in streams during the spring often make these sites risky environments for eggs and tadpoles. Stock ponds that have vegetative cover and few

nonnative predators may be used by CRLF for breeding. CRLF do not occupy water that exceeds temperatures of 70° F (USFWS 2002a).

During summer, CRLF often disperse upstream or downstream from their breeding habitat to forage or seek aestivation habitat if water is not available. Aestivation habitat is essential for the survival of CRLF within a watershed. During dry periods, CRLF are rarely encountered far from water. Summer habitat could include spaces under boulders or rocks and organic debris, such as downed trees or logs; or industrial debris, such as drains and watering troughs. CRLF use small mammal burrows and moist leaf litter to aestivate during the summer if water is not available. CRLF use large cracks in the bottom of dried ponds as refugia. CRLF are frequently encountered in seeps and springs located in open grasslands. Such bodies may not be suitable for breeding but may function as foraging habitat or refugia for frogs (USFWS 2002a; 2005).

RANGE: CRLF are endemic to CA and Baja California, Mexico. The known elevation range extends from near sea level to elevations of about 5,200 ft (USFWS 2002a). Nearly all sightings have occurred below 3,500 ft (USFWS 2002a). CRLF historically occurred through Pacific slope drainages from the vicinity of Redding (Shasta Co.) inland, west to Point Reyes (Marin Co., CA), and southward to the Santo Domingo River drainage in Baja California, Mexico (Jennings and Hayes 1994). CRLF are now known only from isolated localities in the Sierra Nevada, northern Coast, and northern Transverse Ranges (USFWS 2002a).

KNOWN RECORDS: There are no CNDDB records for CRLF on the Placerville or 8 surrounding quads. The closest record to the PSA is from 2005 and is located approximately 14.8 mi west-northwest of the PSA on the east side of Folsom Lake, southwest of Iron Mountain on the Clarksville quad. One juvenile CRFL was observed on a footbridge that that crosses a small watercourse. USFWS has determined that this is an unsubstantiated record (pers. comm. Pete Trenham, USFWS). The closest known breeding population is located approximately 11.6 mi northeast of the PSA. The record is located at Spivey Pond, on the North Fork of Weber Creek on the Sly Park quad in El Dorado County.

HABITAT PRESENT IN THE PSA: There is no CRLF breeding habitat in the PSA.

DISCUSSION: The PSA is outside the dispersal range of the nearest known breeding population and there is no breeding habitat for CRLF in the PSA.

2. Birds

Birds of prey and other migratory bird nests

HABITAT PRESENT IN THE PSA: Trees and shrubs in the PSA provide potential nesting habitat for birds of prey and migratory birds.

DISCUSSION: No birds of prey or their nests were observed in the PSA. Several migratory birds were observed in or soaring above the PSA. No migratory bird nests were observed in the PSA. Fish and Game Code 3503.5 protects all birds in the orders Falconiformes and Strigiformes (collectively known as birds of prey). Migratory birds are protected under the federal Migratory Bird Treaty Act (MBTA) of 1918 (16 U.S.C. 703-711). The MBTA makes

it unlawful to take, possess, buy, sell, purchase, or barter any migratory bird listed in 50 CFR Part 10 including feathers or other parts, nests, eggs, or products, except as allowed by implementing regulations (50 CFR 21). All migratory bird species are protected by the MBTA.

D. Evaluation of Special-Status Plant Species

Nissenan manzanita (Arctostaphylos nissenana)

HABITAT AND BIOLOGY: Evergreen shrub found in rocky closed-cone coniferous forest and chaparral from 1,475 to 3,610 ft in elevation. Blooms February through March (CNPS 2005).

RANGE: Known from El Dorado and Tuolumne cos.

KNOWN RECORDS: There closest CNDDB record is from 1938 and is located approximately 1.2 mi east-southeast of the PSA on the Placerville quad. The record is located at the head of Martinez Creek approximately 2 mi southeast of Diamond Springs.

HABITAT PRESENT IN THE PSA: The manzanita chaparral community in the PSA provides habitat for this species.

DISCUSSION: This species was not observed in the PSA during the general biological survey. Although the survey was conducted after the blooming period, Nissenan manzanita is a perennial evergreen shrub that is identifiable year-round. Nissenan manzanita does not occur in the PSA.

Pleasant Valley mariposa lily (Calochortus clavatus var. avius)

HABITAT AND BIOLOGY: This bulbiferous herb occurs in lower montane coniferous forest from 1,000 to 5,900 feet in elevation (CNPS 2005). Blooms May through July (CNPS 2005). **RANGE:** Amador, Calaveras, El Dorado, and Mariposa cos (CNPS 2005).

KNOWN RECORDS: There are no CNDDB records for this species on the Placerville quad. The closest record for this species is 7.2 mi east of the PSA. The record is located on a ridge top between Avinsino Corner and Newton, approximately 2.5 air mi south of Camino on the Camino quad.

HABITAT PRESENT IN THE PSA: Habitat for this species occurs in the portions of the PSA dominated by mixed oak woodland.

DISCUSSION: Pleasant Valley mariposa lily was not observed in the PSA during biological surveys. The general biological survey was conducted at a time of year when this species may not have been identifiable. Although this species was not observed in the PSA during the biological survey, its potential to occur in the PSA cannot be excluded.

Brandegee's clarkia (Clarkia biloba ssp. brandegeae)

HABITAT AND BIOLOGY: This annual herb is found in chaparral and cismontane woodland, often in road cuts, from 740 to 3,000 ft in elevation (CNPS 2005). Blooms May through July (CNPS 2005).

RANGE: This species is known from Butte, El Dorado, Nevada, Placer, Sierra, and Yuba cos (CNPS 2005).

KNOWN RECORDS: There is one CNDDB record for this species on the Placerville quad. The record is from 1943 and is approximately 4 mi northeast of the PSA. The record is located west of the Institute for Forest Genetics on a dry hillside of a wooded ravine.

HABITAT PRESENT IN THE PSA: Habitat for this species occurs in the PSA.

DISCUSSION: Brandegee's clarkia was not observed in the PSA during biological surveys. The general biological survey was conducted at a time of year when this species may not have been identifiable. Although this species was not observed in the PSA during the biological survey, its potential to occur in the PSA cannot be excluded.

Oval-leaved viburnum (Viburnum ellipticum)

HABITAT AND BIOLOGY: This deciduous shrub found in chaparral, cismontane woodland, and lower montane coniferous forest from 700 to 4,600 ft elevation (CNPS 2005, Hickman 1993). Blooms May through June (CNPS 2005).

RANGE: Contra Costa, Fresno, El Dorado, Glenn, Humboldt, Mendocino, Napa, Placer, Shasta, and Sonoma cos and north to Oregon and Washington.

KNOWN RECORDS: There is one CNDDB record for this species on the Placerville quad. The record is from 1901 and the location of the record is listed as "Placerville".

HABITAT PRESENT IN THE PSA: Habitat for this species occurs in the PSA.

DISCUSSION: Oval-leaved viburnum was not observed in the PSA during biological surveys. The general biological survey was conducted at a time of year when this species may not have been identifiable. Although this species was not observed in the PSA during the biological survey, its potential to occur in the PSA can not be excluded.

VI. JURISDICTIONAL DELINEATION

A. Literature Review

Sycamore Environmental reviewed the Placerville USGS quadrangle, the USFWS wetlands online mapper for the Placerville quad (USFWS 13 October 2006), the Soil Survey of El Dorado Area, CA, and aerial photograph map sheets (Soil Conservation Service (SCS) 1974).

B. Delineation Methods

Jurisdictional data were recorded using the Routine On-Site Determination Method (Corps 1987). Six channel data sheets were completed. Five wetland and 22 upland data points were taken. Soil pits were dug to observe the chroma, texture, degree of saturation, and other characteristics. Plant species were identified by Adam Forbes, M.S. Hydrophytic classifications of plants were determined from the U.S. Fish and Wildlife Service national list of plant species that occur in wetlands (USFWS 1988). Data sheets are in Appendix F. Color photos of the PSA are in Appendix E. This jurisdictional delineation is preliminary until verified by the Corps.

This jurisdictional delineation report has been prepared in accordance with the Sacramento District minimum standards (Corps 2001). This report was prepared prior to the implementation of the *Interim Regional Supplement to the Corps of Engineers Wetland Delineation Manual: Arid West Region* (the supplement) (Corps 2006). The supplement is intended to bring the Corps Manual (Corps 1987) up to date with current knowledge and practice in the region and not to change wetland boundaries. Use of the Corps Manual in combination with the supplement is intended to improve the accuracy and efficiency of wetland-delineation procedures in the Arid West Region. Sycamore Environmental has reviewed the delineation data compiled for this report in light of the Interim Arid West Manual. The acreage of potential jurisdictional wetlands in the PSA would not change as a result of the wetland indicator procedures contained in the supplement.

C. Definitions

The U.S. Army Corps of Engineers (Corps) and the U.S. Environmental Protection Agency regulate the discharge of dredge and fill material into "waters of the United States" under Section 404 of the Clean Water Act (33 U.S.C. 1344). The Corps issues permits for certain dredge and fill activities in waters of the U.S. pursuant to the regulations in 33 CFR 320-330.

The lateral limits of jurisdiction in those waters may be divided into three categories. The categories include the territorial seas, tidal waters, and non-tidal waters (see 33 CFR 328.4 (a), (b), and (c), respectively). The term "waters of the U.S." is defined at 33 CFR 328.3(a) as:

- 1. All waters which are currently used, or were used in the past, or may be susceptible to use in interstate or foreign commerce, including all waters which are subject to the ebb and flow of the tide;
- 2. All interstate waters including interstate wetlands;
- 3. All other waters such as intrastate lakes, rivers, streams (including intermittent streams), mudflats, sandflats, wetlands, sloughs, prairie potholes, wet meadows, playa lakes, or natural ponds, the use, degradation or destruction of which could affect interstate or foreign commerce including any such waters:
 - i. Which are or could be used by interstate or foreign travelers for recreational or other purposes; or
 - ii. From which fish or shellfish are or could be taken and sold in interstate or foreign commerce; or
 - iii. Which are used or could be used for industrial purpose by industries in interstate commerce;
- 4. All impoundments of waters otherwise defined as waters of the United States under the definition;
- 5. Tributaries of waters identified in paragraphs (a)(1)-(4) of this section;
- 6. The territorial seas;

b.

c.

7. Wetlands adjacent to waters (other than waters that are themselves wetlands) identified in paragraphs (a)(1)-(6) of this section.

The limits of jurisdiction are identified in 33 CFR 328.4 as:

- a. Territorial Seas. The limit of jurisdiction in the territorial seas is measured from the baseline in a seaward direction a distance of three nautical miles. (See 33 CFR 329.12)
 - Tidal Waters of the United States. The landward limits of jurisdiction in tidal waters:
 - 1. Extends to the high tide line, or
 - 2. When adjacent non-tidal waters of the United States are present, the jurisdiction extends to the limits identified in paragraph (c) of this section.
 - Non-Tidal Waters of the United States. The limits of jurisdiction in non-tidal waters:
 - 1. In the absence of adjacent wetlands, the jurisdiction extends to the ordinary high water mark, or

- 2. When adjacent wetlands are present, the jurisdiction extends beyond the ordinary high water mark to the limit of the adjacent wetlands.
- 3. When the water of the United States consists only of wetlands the jurisdiction extends to the limit of the wetland.

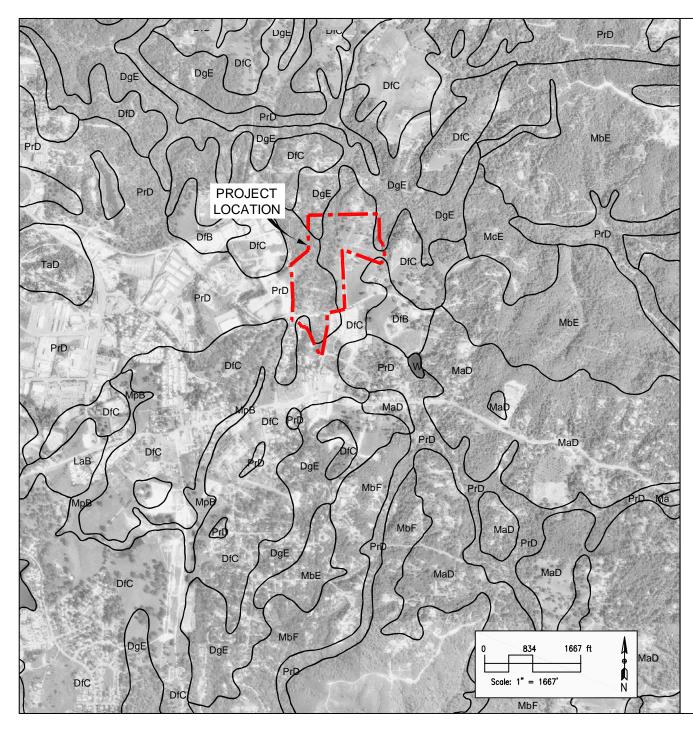
Wetlands, as defined by the Corps for regulatory purposes, are identified using a threeparameter test that considers whether hydrophytic vegetation, hydric soils, and hydrology are present (Corps 1987). Wetlands are "those areas that are inundated or saturated by surface or groundwater at a frequency and duration sufficient to support, and that under normal circumstances do support, a prevalence of vegetation typically adapted for life in saturated soil conditions." Wetlands generally include swamps, marshes, bogs, and similar areas (33 CFR 328.3, 40 CFR 230.3). Wetlands also include less conspicuous wetland types such as vernal pools and other seasonal wetlands.

An ephemeral stream has flowing water only during and for a short duration after, precipitation events in a typical year. Ephemeral streambeds are located above the water table year-round. Groundwater is not a source of water for the stream. Runoff from rainfall is the primary source of water for stream flow. However, an intermittent stream has flowing water during certain times of the year, when groundwater provides water for stream flow. During dry periods, intermittent streams may not have flowing water. Runoff from rainfall is a supplemental source of water for stream flow (66 FR 42099).

D. Soils

Mapped soil units in the PSA were determined using the Soil Survey of El Dorado Area (SCS 1974). Four soil mapping units occur in the PSA: Diamond Springs very fine sandy loam, 3-9% slopes, Diamond Springs very fine sandy loam, 9-15% slopes, Diamond Springs very rocky very fine sandy loam, 3-50% slopes, and placer diggings (Figure 4). Placer diggings located in channels are listed as hydric (NRCS 25 October 2006). The three remaining soil units are not listed as hydric (NRCS 25 October 2006). The soil descriptions provided below are from SCS (1974) with editing.

Diamond Springs very fine sandy loam, 3-9% slopes, Diamond Springs very fine sandy loam, 9-15% slopes, Diamond Springs very rocky very fine sandy loam, 3-50% slopes: The Diamond Springs series consists of well-drained soils underlain by fine-grained acidic igneous rocks at a depth of 24 to 50 inches. A typical profile of Diamond Springs very fine sandy loam, 3-9% slopes has pale-brown (10YR 6/3) very fine sandy loam from 0 to 3 inches, very pale brown (10YR 7/3) loam from 3 to 9 inches, very pale brown (10YR 8/4) light clay loam from 9 to 14 inches, very pale brown (10YR 8/4, 7/4) clay loam from 14 to 20 inches, white (10YR 8/2) clay loam from 28 to 36 inches and well-weathered meta-dacite below 40 inches. Permeability is moderately slow, surface runoff is medium, and the erosion hazard is slight to moderate. Diamond Springs very fine sandy loam. 9-15% slopes similar to the profile described above, except it occurs on slopes ranging from 9 to 15 %. Diamond Springs



Piedmont Oak Estates El Dorado County, CA 9 April 2007

Figure 4. Soil Map

Soil Types in the PSA:

PrD Placer Diggings

DfC Diamond Springs Very Fine Sandy Loam, 9 to 15 percent slopes

DgE Diamond Springs Very Rocky Very Fine Sandy Loam, 3 to 50 percent slopes

DfB Diamond Springs Very Fine Sandy Loam, 3 to 9 percent slopes





Photograph: 1 May 1993 Copyright 2007. GlobeXplorer and Partners. All rights reserved. Soil Data: NRCS Soil Data Mart Soil Survey of El Dorado Area, CA 1974 http://www.soildatamart.nrcs.usda.gov

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very rocky very fine sandy loam is similar to the profile described above, except 5-25% of the surface is rock outcrops.

Placer Diggings: This soil type consists of areas of stony, cobbly, and gravelly material, commonly in beds of creeks and other streams, or of areas that have been placer mined and contain enough fine sand or silt to support some grass for grazing. Material included in this land type is derived from a mixture of rocks and commonly is stratified or poorly sorted.

E. Hydrology

A detailed description of the hydrology of potential jurisdictional features is in Section IV.H.

F. National Wetlands Inventory (NWI) Map

No mapped wetlands or waters occur in the PSA.

G. Existing Field Conditions

The average accumulated precipitation for the National Weather Service, Placerville gauge through August is 37.73 inches. Prior to the delineation, the Placerville gauge had received 59.00 inches of precipitation, or 156% of average accumulated precipitation (CDWR 2006).

H. Wetlands and Other Waters of the U.S. in the PSA

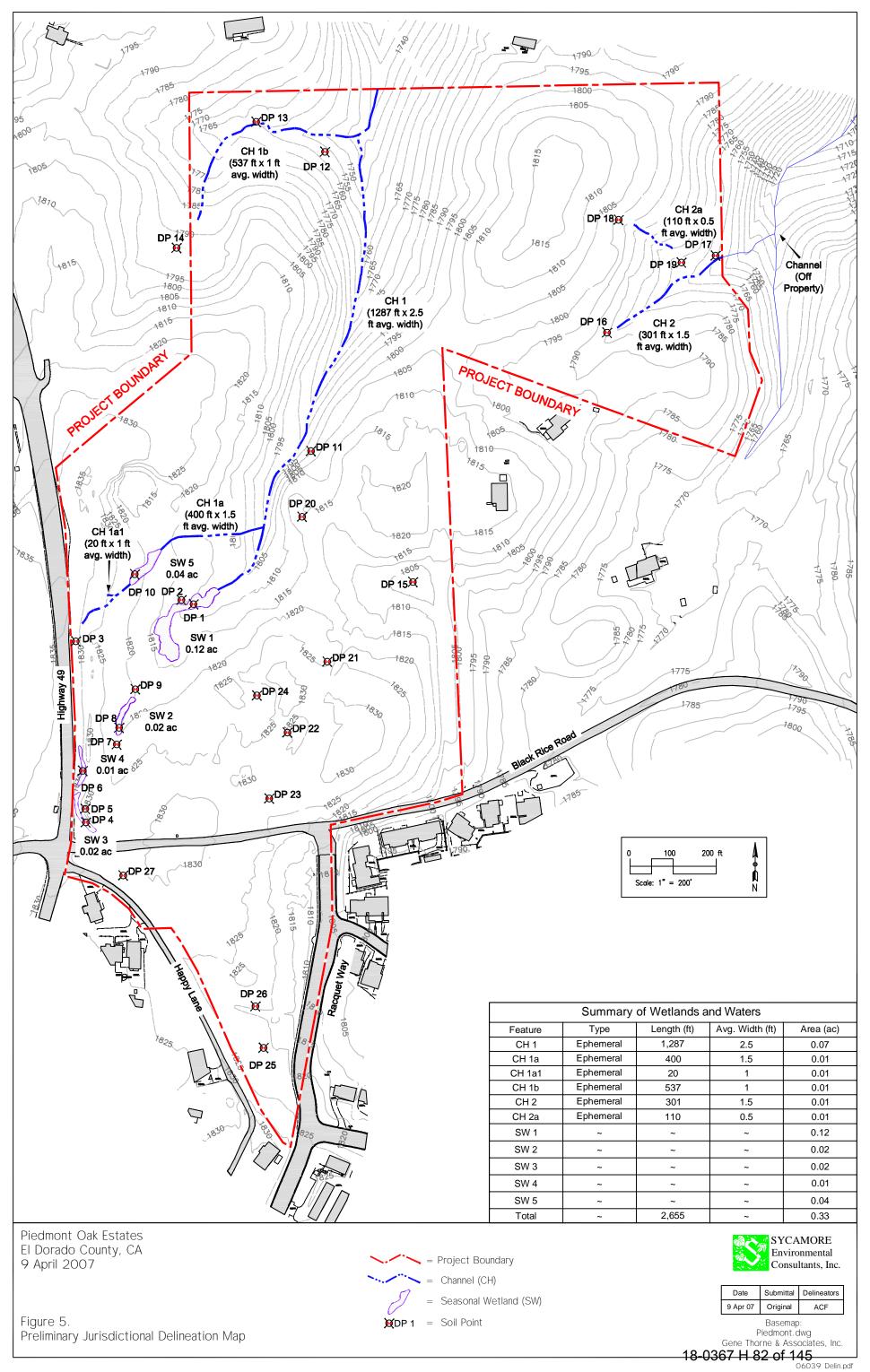
The U.S. Supreme Court, in its decision in Rapanos et ux., et. al. v. United States (19 June 2006), left open the possibility that certain wetlands and waters may not be regulated under section 404 of the Clean Water Act unless there is a "significant nexus" to traditionally navigable waters of the U.S. The Corps and U.S. Environmental Protection Agency (EPA) have not released new guidance for how to evaluate whether ephemeral or intermittent waters have a "significant nexus." The Sacramento District of the Corps is currently using the presence of a surface water connection, no matter how distant, to establish "adjacency." As a result, the District regulates most ephemeral and intermittent channels as "waters of the U.S." and wetlands adjacent to other waters. Potential jurisdictional features are shown on Figure 5 and their acreages are shown in Table 3.

1. Waters of the U.S.

<u>Channel 1 (CH 1)</u>: CH 1 is an ephemeral channel located in the western portion PSA. CH 1 did not contain water on the day of the delineation. Hydrology for CH 1 is provided by surface runoff from surrounding upland areas and from its three ephemeral tributaries. The bed of CH 1 is composed of scoured soil, cobble, and bedrock. There is no riparian corridor associated with CH 1.

<u>Channel 1a (CH 1a)</u>: CH 1a is an ephemeral channel located in the western portion of the PSA. CH 1a is a tributary of CH 1 and did not contain water on the day of the delineation.

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Hydrology for CH 1a is provided by flow from a concrete box culvert and by surface runoff from surrounding upland areas in the PSA. The concrete box culvert is located west of and upslope from the upstream terminus of CH 1a. The concrete box culvert is associated with an old ditch segment that was likely related to previous mining activities. Within the PSA the ditch segment extents from the intersection of Highway 49 and Black Rice Road north approximately 500 ft to a culvert that extends under Highway 49. The culvert under Highway 49 is damaged and it is unknown if the culvert is functioning. No culvert was observed at the southern terminus of the ditch segment. As water collects in the ditch it appears to flow through the concrete box culvert and drop approximately 10 vertical ft and enter CH 1a. Additional flow is provided by surface runoff from upland areas surrounding CH 1a. The upper reach of CH 1a drains to seasonal wetland 5 (SW 5). At the downsteam end of SW 5 flow reenters CH 1a and drains to CH 1. The bed of CH 1a is composed of scoured soil. Spoils piles are located adjacent to the upstream portions of CH 1a. There is no riparian corridor associated with CH 1a.

Wetland Feature	Hydrology/ Wetland Data Points/ Paired Upland Point	Length (ft)	Avg. Width (ft)	Area (ac) ¹
Wetlands	·			
SW 1	1/2			0.12
SW 2	8/7,9			0.02
SW 3	4/5			0.02
SW 4	6/5			0.01
SW 5	10/2,3			0.04
Subtotal Wetlands:				0.21
Other Waters of the U.S.				
CH 1	Ephemeral	1,287	2.5	0.07
CH 1a	Ephemeral	400	1.5	0.01
CH 1a1	Ephemeral	20	1	0.01
CH 1b	Ephemeral	537	1	0.01
CH 2	Ephemeral	301	1.5	0.01
CH 2a	Ephemeral	110	0.5	0.01
Subtotal Waters of the U.S.:				0.12
Total Waters of the U.S.:		2,655		0.33

Table 3. Potential Wetlands and Other Waters of the U.S. in the PSA.

¹Acreages of jurisdictional features were calculated with AutoCAD® functions.

<u>Channel 1a1 (CH 1a1)</u>: CH 1a1 is an ephemeral channel located in the western portion of the PSA. CH 1a1 did not contain water on the day of the delineation. Hydrology for CH 1a1 is provided by surface runoff from surrounding upland areas within the PSA. The bed of CH 1a1 is composed of scoured soil. Spoils piles are located adjacent to CH 1a1. There is no riparian corridor associated with CH 1a1.

Channel 1b (CH 1b): CH 1b is an ephemeral channel located in the northwestern portion of the PSA. CH 1b did not contain water on the day of the delineation. Hydrology for CH 1b is provided by surface runoff from surrounding upland areas within and immediately adjacent to the PSA. The bed of CH 1b is composed of scoured soil. There is no riparian corridor associated with CH 1b.

Channel 2 (CH 2): CH 2 is an ephemeral channel located in the northeast potion of the PSA. CH 2 did not contain water on the day of the delineation. CH 2a drains to an unnamed channel east of and outside the PSA. Hydrology for CH 2 is provided by surface runoff from surrounding upland areas in the PSA. The bed of CH 2 is composed of scoured soil and bedrock. There is no riparian corridor associated with CH 2.

Channel 2a (CH 2a): CH 2a is an ephemeral channel located in the northeast potion of the PSA. CH 2a did not contain water on the day of the delineation. Hydrology for CH 2a is provided by surface runoff from surrounding upland areas in the PSA. The downstream terminus of CH 2a is located approximately 60 ft north west of CH 2. Upland data point 19 (DP 19) was taken between the terminus of CH 2a and CH 2. No defined surface connection between CH 2a and CH 2 was observed. The bed of CH 2a is composed of scoured soil. There is no riparian corridor associated with CH 2a.

2. Wetlands

Seasonal Wetland 1 (SW 1): SW 1 is located in the west central portion of the PSA immediately south of the upstream terminus of CH 1. SW 1 is an open sloped depression that drains to CH 1. Hydrology for SW 1 is provided by surface runoff from surrounding uplands and likely includes runoff from SW 2. A dirt road crosses the central portion of SW 1. Hydrophytic species present include curly dock, yellow monkey flower (*Mimulus guttatus*), Italian ryegrass, and toad rush. Hydric soils in SW 1 are characterized by a brown (7.5YR 4/2) matrix color with common/ prominent yellowish red (5YR 4/6) mottles.

Seasonal Wetland 2 (SW 2): SW 2 is located in the western portion of the PSA approximately 120 ft southwest of SW 1. SW 2 is an open sloped depression that drains to SW 2. Hydrology for SW 2 is provided by surface runoff from surrounding upland areas. Hydrophytic species present include curly dock, yellow monkey flower, Italian ryegrass, *Ranunculus* sp., and toad rush. Hydric soils in SW 2 are characterized by a dark grayish brown (2.5Y 4/2) matrix color with common/ prominent yellowish red (5YR 5/8) mottles.

Seasonal Wetland 3 (SW 3): SW 3 is in the southwestern portion of the PSA approximately 30 ft north of the intersection of Highway 49 and Black Rice Road. SW 3 is an open sloped depression located in an old ditch segment that was likely related to previous mining activities. Hydrology for SW 3 is provided by surface runoff from surrounding uplands and likely includes runoff from Highway 49. Hydrophytic species present include deer grass, curly dock, Baltic rush, *Lythrum hyssopifolium*, and spikerush. Hydric soils in SW 3 are

characterized by a dark gray (2.5Y 4/1) matrix color with common/ prominent yellowish red (5YR 4/6) mottles.

Seasonal Wetland 4 (SW 4): SW 4 is an open sloped depression located approximately 20 ft north of SW 3 in the same ditch segment. Hydrology for SW 4 is provided by surface runoff from surrounding uplands and likely includes runoff from Highway 49. Hydrophytic species present include nutsedge, Bermuda grass (*Cynodon dactylon*), Italian ryegrass, spikerush, annual beard grass (*Polypogon monspeliensis*), and curly dock. Hydric soils in SW 4 are characterized by a dark grayish brown (2.5Y 4/2) matrix color with common/ prominent reddish brown (5YR 4/4) mottles.

Seasonal Wetland 5 (SW 5): SW 5 is an open depression located in the western portion of the PSA. Hydrology for SW 5 is provided by flow from CH 1a and surface runoff from surrounding upland areas. Hydrophytic species present include dock (*Rumex conglomeratus*), willow, Baltic rush, mugwort (*Artemisia douglasii*), and Himalayan blackberry. Hydric soils in SW 5 are characterized by a dark grayish brown (10YR 4/2) matrix color with common/ prominent strong brown (7YR 5/6) mottles.

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B. Personal Communications

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VIII. PREPARERS

R. John Little, Ph.D., Botany, Claremont Graduate School, Claremont, CA. Over 26 years experience managing and conducting environmental projects involving impact assessment and preparation of numerous NEPA/CEQA compliance documents, Biological Assessments, and Caltrans Natural Environmental Studies. Experience includes conducting special-status plant and wildlife species surveys, jurisdictional wetland delineations, general biological surveys, permitting and biological report preparation.

Responsibilities: Senior technical lead.

Jeffery Little, A.A., Sacramento City College, Sacramento, CA. Over 14 years of experience with preparation of NES, BA, and NEPA/CEQA compliance documents, and impact analysis, and project management. Consultations for Corps 404 permit issues and DFG Streambed Alteration Agreements; USFWS for both formal and informal section 7 consultations. Conducts special-status species surveys, jurisdictional delineations, and prepares mitigation and monitoring plans. CAD/ GIS Manager.

Responsibilities: Project manager; Report and figure preparation.

Adam C. Forbes, M.S., Range Science (emphasis on plant systematics), New Mexico State University, Las Cruces, NM. Over six years experience conducting biological studies for the public and private sector. As a botanist/ biologist with Sycamore Environmental, Mr. Forbes conducts plant and wildlife surveys, prepares and edits reports, serves as assistant project manager, and conducts informal consultations with regulatory agency personnel. Responsibilities also include assisting with proposal preparation and marketing activities. Provides technical support for wetland delineations, biological resource evaluations, mitigation plans, and other documents used in the CEQA/NEPA process. Responsibilities: Biological surveys, jurisdictional delineation, and report preparation.

Stephanie Brown, B.S., Industrial Engineering, Cal Poly San Luis Obispo, San Luis Obispo, CA. Prepares CAD/ GIS and ArcView[®] figures, assists with general project planning, and assists with the maintenance of project performance feedback. Responsibilities: Figure preparation.

Cynthia Little, Principal, Sycamore Environmental. Responsibilities: Senior editor, quality control. [This page intentionally blank]

APPENDIX A.

California Natural Diversity Database (CNDDB)/ RareFind Summary Report for the Placerville and eight adjacent quads

Piedmont Oak Estates

El Dorado County, CA

California Department of Fish and Game

Natural Diversity Database

Selected Elements by Scientific Name - Landscape

Placerville, Coloma, Garden Valley, Slate Mt., Shingle Springs, Camino, Latrobe, Fiddletown, and Aukum quads

	Scientific Name	Common Name	Element Code	Federal Status	State Status	Global Rank	State Rank	CNPS	R-E-D	CDFG
1	Accipiter gentilis	northern goshawk	ABNKC12060			G5	S3			SC
2	Agelaius tricolor	tricolored blackbird	ABPBXB0020			G2G3	S2			SC
3	Allium jepsonii	Jepson's onion	PMLIL022V0			G1	S1.2	1B	3-2-3	
4	Arctostaphylos nissenana	Nissenan manzanita	PDERI040V0			G2	S2.2	1B	3-2-3	
5	Calochortus clavatus var. avius	Pleasant Valley mariposa lily	PMLIL0D095			G4T3	S3.2	1B	2-2-3	
6	Calystegia stebbinsii	Stebbins's morning-glory	PDCON040H0	Endangered	Endangered	G1	S1.1	1B	3-3-3	
7	Ceanothus roderickii	Pine Hill ceanothus	PDRHA04190	Endangered	Rare	G2	S2.1	1B	3-2-3	
	Central Valley Drainage Hardhead/Squawfish Stream	Central Valley Drainage Hardhead/Squawfish Stream	CARA2443CA			G?	S?			
	Central Valley Drainage Resident Rainbow Trout Stream	Central Valley Drainage Resident Rainbow Trout Stream	CARA2421CA			G?	S?			
10	Chlorogalum grandiflorum	Red Hills soaproot	PMLIL0G020			G2	S2.2	1B	2-2-3	
11	Clarkia biloba ssp. brandegeeae	Brandegee's clarkia	PDONA05053			G4G5T2	S2.2	1B	2-2-3	
12	Emys (=Clemmys) marmorata marmorata	northwestern pond turtle	ARAAD02031			G3G4T3	S3			SC
13	Fremontodendron decumbens	Pine Hill flannelbush	PDSTE03030	Endangered	Rare	G1	S1.2	1B	3-2-3	
14	Galium californicum ssp. sierrae	El Dorado bedstraw	PDRUB0N0E7	Endangered	Rare	G5T1	S1.2	1B	3-2-3	
15	Helianthemum suffrutescens	Bisbee Peak rush-rose	PDCIS020F0			G2Q	S2.2	3	2-2-3	
16	Horkelia parryi	Parry's horkelia	PDROS0W0C0			G2	S2.2	1B	2-2-3	
17	Lasionycteris noctivagans	silver-haired bat	AMACC02010			G5	S3S4			SC
18	Myotis yumanensis	Yuma myotis	AMACC01020			G5	S4?			
19	Packera layneae	Layne's ragwort	PDAST8H1V0	Threatened	Rare	G2	S2.1	1B	2-2-3	
	Phrynosoma coronatum (frontale population)	Coast (California) horned lizard	ARACF12022			G4G5	S3S4			SC
21	Rana boylii	foothill yellow-legged frog	AAABH01050			G3	S2S3			SC
	Sacramento-San Joaquin Foothill/Valley Ephemeral Stream	Sacramento-San Joaquin Foothill/Valley Ephemeral Stream	CARA2130CA			G?	S?			
23	Viburnum ellipticum	oval-leaved viburnum	PDCPR07080			G5	S2.3	2	2-1-1	
24	Wyethia reticulata	El Dorado County mule ears	PDAST9X0D0			G2	S2.2	1B	2-2-3	

APPENDIX B.

USFWS Online Species List

Piedmont Oak Estates

El Dorado County, CA

United States Department of the Interior



FISH AND WILDLIFE SERVICE

Sacramento Fish and Wildlife Office 2800 Cottage Way, Room W-2605 Sacramento, California 95825



October 13, 2006

Document Number: 061013110815

R. John Little, Ph.D.Sycamore Environmental Consultants, Inc.6355 Riverside Blvd., Suite CSacramento, CA 95831

Subject: Species List for Piedmont Oak Estates

Dear: Dr. Little

We are sending this official species list in response to your October 13, 2006 request for information about endangered and threatened species. The list covers the California counties and/or U.S. Geological Survey 7½ minute quad or quads you requested.

Our database was developed primarily to assist Federal agencies that are consulting with us. Therefore, our lists include all of the sensitive species that have been found in a certain area *and also ones that may be affected by projects in the area*. For example, a fish may be on the list for a quad if it lives somewhere downstream from that quad. Birds are included even if they only migrate through an area. In other words, we include all of the species we want people to consider when they do something that affects the environment.

Please read Important Information About Your Species List (below). It explains how we made the list and describes your responsibilities under the Endangered Species Act.

Our database is constantly updated as species are proposed, listed and delisted. If you address proposed and candidate species in your planning, this should not be a problem. However, we recommend that you get an updated list every 90 days. That would be January 11, 2007.

Please contact us if your project may affect endangered or threatened species or if you have any questions about the attached list or your responsibilities under the Endangered Species Act. A list of Endangered Species Program contacts can be found at <u>www.fws.gov/sacramento/es/branches.htm</u>.

Endangered Species Division



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Federal Endangered and Threatened Species that Occur in or may be Affected by Projects in the Counties and/or U.S.G.S. 7 1/2 Minute Quads you requested Document Number: 061013110815 Database Last Updated: October 3, 2006

Species of Concern - The Sacramento Fish & Wildlife Office no longer maintains a list of species of concern. However, various other agencies and organizations maintain lists of at-risk species. These lists provide essential information for land management planning and conservation efforts. See www.fws.gov/sacramento/es/spp_concern.htm for more information and links to these sensitive species lists.

Red-Legged Frog Critical Habitat - The Service has designated final critical habitat for the California red-legged frog. The designation became final on May 15, 2006. See our <u>map index</u>.

Species

Listed Species

Invertebrates Desmocerus californicus dimorphus valley elderberry longhorn beetle (T)

Fish

Hypomesus transpacificus delta smelt (T)

Oncorhynchus mykiss Central Valley steelhead (T) (NMFS)

Oncorhynchus tshawytscha Central Valley spring-run chinook salmon (T) (NMFS) winter-run chinook salmon, Sacramento River (E) (NMFS)

Amphibians

Rana aurora draytonii California red-legged frog (T)

Birds Haliaeetus leucocephalus bald eagle (T)

Plants Senecio layneae Layne's butterweed (=ragwort) (T)

Candidate Species

Fish Oncorhynchus tshawytscha Central Valley fall/late fall-run chinook salmon (C) (NMFS)

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http://www.fws.gov/sacramento/es/spp_lists/auto_list.cfm

Selected Quads

PLACERVILLE (510A)

County Lists

El Dorado County

Listed Species

Invertebrates Desmocerus californicus dimorphus valley elderberry longhorn beetle (T)

Lepidurus packardi vernal pool tadpole shrimp (E)

Fish

Oncorhynchus (=Salmo) clarki henshawi Lahontan cutthroat trout (T)

Oncorhynchus mykiss Central Valley steelhead (T) (NMFS)

Oncorhynchus tshawytscha Central Valley spring-run chinook salmon (T) (NMFS)

Amphibians

Ambystoma californiense California tiger salamander, central population (T)

Rana aurora draytonii California red-legged frog (T) Critical habitat, California red-legged frog (X)

Reptiles

Thamnophis gigas giant garter snake (T)

Birds

Haliaeetus leucocephalus bald eagle (T)

Plants Calystegia stebbinsii Stebbins's morning-glory (E)

Ceanothus roderickii Pine Hill ceanothus (E)

Fremontodendron californicum ssp. decumbens

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Pine Hill flannelbush (E)

Galium californicum ssp. sierrae El Dorado bedstraw (E)

Senecio layneae Layne's butterweed (=ragwort) (T)

Candidate Species

Amphibians Bufo canorus Yosemite toad (C)

Rana muscosa mountain yellow-legged frog (C)

Mammals

Martes pennanti fisher (C)

Plants

Rorippa subumbellata Tahoe yellow-cress (C)

Key:

- (E) Endangered Listed as being in danger of extinction.
- (T) *Threatened* Listed as likely to become endangered within the foreseeable future.

(P) *Proposed* - Officially proposed in the Federal Register for listing as endangered or threatened.

(NMFS) Species under the Jurisdiction of the <u>National Oceanic & Atmospheric Administration</u> <u>Fisheries Service</u>. Consult with them directly about these species.

Critical Habitat - Area essential to the conservation of a species.

(PX) *Proposed Critical Habitat* - The species is already listed. Critical habitat is being proposed for it.

- (C) Candidate Candidate to become a proposed species.
- (V) Vacated by a court order. Not currently in effect. Being reviewed by the Service.
- (X) Critical Habitat designated for this species

Important Information About Your Species List

How We Make Species Lists

We store information about endangered and threatened species lists by U.S. Geological Survey $\frac{71}{2}$ minute quads. The United States is divided into these quads, which are about the size of San Francisco.

The animals on your species list are ones that occur within, **or may be affected by** projects within, the quads covered by the list.

- Fish and other aquatic species appear on your list if they are in the same watershed as your quad or if water use in your quad might affect them.
- Amphibians will be on the list for a quad or county if pesticides applied in that area may be

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carried to their habitat by air currents.

• Birds are shown regardless of whether they are resident or migratory. Relevant birds on the county list should be considered regardless of whether they appear on a quad list.

Plants

Any plants on your list are ones that have actually been observed in the area covered by the list. Plants may exist in an area without ever having been detected there. You can find out what's in the nine surrounding quads through the California Native Plant Society's online <u>Inventory of Rare and Endangered Plants</u>.

Surveying

Some of the species on your list may not be affected by your project. A trained biologist or botanist familiar with the habitat requirements of the species on your list, should determine whether they or habitats suitable for them may be affected by your project. We recommend that your surveys incluc any proposed and candidate species on your list.

For plant surveys, we recommend using the <u>Guidelines for Conducting and Reporting Botanical</u> <u>Inventories</u>. The results of your surveys should be published in any environmental documents prepa for your project.

Your Responsibilities Under the Endangered Species Act

All animals identified as listed above are fully protected under the Endangered Species Act of 1973, amended. Section 9 of the Act and its implementing regulations prohibit the take of a federally lister wildlife species. Take is defined by the Act as "to harass, harm, pursue, hunt, shoot, wound, kill, tra capture, or collect" any such animal.

Take may include significant habitat modification or degradation where it actually kills or injures wildlife by significantly impairing essential behavioral patterns, including breeding, feeding, or shelter (50 CFR §17.3).

Take incidental to an otherwise lawful activity may be authorized by or of two procedures:

• If a Federal agency is involved with the permitting, funding, or carrying out of a project that n result in take, then that agency must engage in a formal <u>consultation</u> with the Service.

During formal consultation, the Federal agency, the applicant and the Service work together to avoid or minimize the impact on listed species and their habitat. Such consultation would resu in a biological opinion by the Service addressing the anticipated effect of the project on listed proposed species. The opinion may authorize a limited level of incidental take.

• If no Federal agency is involved with the project, and federally listed species may be taken as part of the project, then you, the applicant, should apply for an incidental take permit. The Service may issue such a permit if you submit a satisfactory conservation plan for the species that would be affected by your project.

Should your survey determine that federally listed or proposed species occur in the area and a likely to be affected by the project, we recommend that you work with this office and the California Department of Fish and Game to develop a plan that minimizes the project's direct a indirect impacts to listed species and compensates for project-related loss of habitat. You shou include the plan in any environmental documents you file.

Critical Habitat

When a species is listed as endangered or threatened, areas of habitat considered essential to its conservation may be designated as critical habitat. These areas may require special management considerations or protection. They provide needed space for growth and normal behavior; food, wat

air, light, other nutritional or physiological requirements; cover or shelter; and sites for breeding, reproduction, rearing of offspring, germination or seed dispersal.

Although critical habitat may be designated on private or State lands, activities on these lands are n restricted unless there is Federal involvement in the activities or direct harm to listed wildlife.

If any species has proposed or designated critical habitat within a quad, there will be a separate line for this on the species list. Boundary descriptions of the critical habitat may be found in the Federal Register. The information is also reprinted in the Code of Federal Regulations (50 CFR 17.95). See c critical habitat page for maps.

Candidate Species

We recommend that you address impacts to candidate species. We put plants and animals on our candidate list when we have enough scientific information to eventually propose them for listing as threatened or endangered. By considering these species early in your planning process you may be able to avoid the problems that could develop if one of these candidates was listed before the end o your project.

Wetlands

If your project will impact wetlands, riparian habitat, or other jurisdictional waters as defined by section 404 of the Clean Water Act and/or section 10 of the Rivers and Harbors Act, you will need to obtain a permit from the U.S. Army Corps of Engineers. Impacts to wetland habitats require site specific mitigation and monitoring. For questions regarding wetlands, please contact Mark Littlefield this office at (916) 414-6580.

Updates

Our database is constantly updated as species are proposed, listed and delisted. If you address proposed and candidate species in your planning, this should not be a problem. However, we recommend that you get an updated list every 90 days. That would be January 11, 2007.

APPENDIX C.

Species Evaluated Table

Piedmont Oak Estates

El Dorado County, CA

Special-Status Species/ Common Name	Listing Status ^a Federal/State	Other DFG Codes ^b	Source ^c	Habitat Requirements	Potential to Occur within the Project Study Area?
Invertebrates					
Desmocerus californicus dimorphus Valley elderberry longhorn beetle	T/		1	Requires an elderberry shrub (Sambucus mexicana or Sambucus racemosa var. microbotrys) as a host plant (USFWS 1991).	No. No elderberry shrubs were observed in the PSA.
Lepidurus packardi Vernal pool tadpole shrimp	E/		1	Occurs in a variety of vernal pool habitats (USFWS 1994a).	No. No vernal pools occur in the PSA.
Fish					
Hypomesus transpacificus Delta smelt	T, CH/ T		1	Euryhaline (tolerant of a wide salinity range) species that spawns in freshwater dead-end sloughs and shallow edge-waters of channels of the Delta (USFWS 1994b).	No. Habitat for this species does not occur in the PSA.
Oncorhynchus clarki henshawi Lahontan cutthroat trout	T/		1	There are three populations of this species known: 1) Western Lahontan basin comprised of Truckee, Carson, and Walker river basins; 2) Northwestern Lahontan basin comprised of Quinn River, Black Rock Desert, and Coyote Lake basins; and 3) Humboldt River basin (USFWS 1994c).	No. The PSA is outside the geographic distribution of this species. Habitat for this species does not occur in the PSA.
<i>Oncorhynchus mykiss</i> Central Valley steelhead ESU	T/		1	Historically, this species was widely distributed in the Sacramento and San Joaquin drainages. While steelhead are found elsewhere in the Sacramento River system, the principal remaining wild populations are a few hundred fish that spawn annually in Deer and Mill Creeks in Tehama County and a population of unknown size in the lower Yuba River (Moyle 2002). With the possible exception of a small population in the lower Stanislaus River, steelhead appears to have been extirpated from the San Joaquin basin (Moyle 2002). Spawning occurs in small tributaries on coarse gravel beds in riffle areas (Busby 1996).	No. Habitat for this species does not occur in the PSA.
Oncorhynchus tshawytscha Central Valley fall/late fall-run chinook salmon ESU	C/	CSC	1	This anadromous species enters the Sacramento/San Joaquin Basin from July through April and spawns from October through February. Adult female chinook will prepare a spawning bed in a stream with suitable gravel composition, water depth, and velocity (McGinnis 1984).	No. Habitat for this species does not occur in the PSA.

Special-Status Species/ Common Name	Listing Status ^a Federal/State	Other DFG Codes ^b	Source ^c	Habitat Requirements	Potential to Occur within the Project Study Area?
Oncorhynchus tshawytscha Central Valley spring-run chinook salmon ESU	T/ T		1	Extant populations of this ESU spawn in the Sacramento River and its tributaries. Populations in the San Joaquin River are believed to be extirpated (NMFS 1998). Enters the Sacramento River from March to July and spawns from late August through early October. Adult female chinook will prepare a spawning bed in a stream with suitable gravel composition, water depth, and velocity. After hatching, fry and subyearlings return to the ocean and complete their development (McGinnis 1984).	No. Habitat for this species does not occur in the PSA.
Amphibians					
<i>Ambystoma californiense</i> California tiger salamander	PT/	CSC	1	Frequents grassland, oak savannah, and edges of mixed woodland and lower elevation coniferous forest. Spends much time underground in mammal burrows. Usually breeds in temporary ponds such as vernal pools but may also breed in slower parts of streams and some permanent waters (Stebbins 2003). Ponds with large populations of this species larvae usually contain very few larvae of other amphibian species (Zeiner et al. 1988).	No. The PSA is outside the geographic distribution of this species. Habitat for this species does not occur in the PSA.
<i>Bufo canorus</i> Yosemite toad	C/	CSC	1	Restricted to the vicinities of wet meadows in the central high Sierra. Occurs at elevations of 6,400 to 11, 300 ft. Frequents montane wet meadows, but also occurs in seasonal ponds associated with lodgepole pine and sub-alpine conifer forests (Zeiner et al. 1988).	No. The PSA is outside the elevational range of this species. Habitat for this species does not occur in the PSA.
Rana aurora draytonii California red-legged frog	T, CH/	CSC	1	Inhabits quiet pools of streams, marshes, and occasionally ponds. Requires permanent or nearly permanent pools for larval development (Zeiner et al. 1988).	No. See text.
<i>Rana boylii</i> Foothill yellow-legged frog	/	CSC	1	Occurs in woodland and forest areas near streams and rivers, especially near riffles where there are exposed rocks. Requires permanent streams in which to reside (Zeiner et al. 1988).	No. Habitat for this species does not occur in the PSA.
Rana muscosa Mountain yellow-legged frog	C/	CSC	1	Occurs primarily at elevations above 5,900 ft in the Sierra Nevada from Plumas County to southern Tulare County. Associated with streams, lakes, and ponds in montane riparian, lodgepole pine, sub- alpine conifer, and wet meadow habitat types. Always encountered within a few feet of water (Zeiner et al. 1988).	No. The PSA is outside the elevational range of this species. Habitat for this species does not occur in the PSA.
Reptiles					
<i>Emys (=Clemmys) marmorata</i> <i>marmorata</i> Northwestern pond turtle	/	CSC	2	Prefers aquatic habitats with abundant vegetative cover and exposed basking sites such as logs. They are associated with permanent or nearly permanent water in a wide variety of habitat types, normally in ponds, lakes, streams, irrigation ditches or permanent pools along intermittent streams (Zeiner et al. 1988).	No. Habitat for this species does not occur in the PSA.

Listing Status ^a Federal/State	Other DFG Codes ^b	Source ^c	Habitat Requirements	Potential to Occur within the Project Study Area?
/	CSC	2	Occurs in valley-foothill hardwood, conifer, and riparian habitats, as well as in pine-cypress, juniper and annual grass habitats. Common in the lowlands along sandy washes where scattered low shrubs provide cover. Also needs open areas for sunning and fine, loose soil where it can bury itself (Stebbins 2003).Ranges in the Central Valley from southern Tehama Co. south; in the Sierra foothills from Butte Co. to Tulare Co. below 4,000 ft; below 6,000 ft in the mountains of southern California exclusive of desert regions; throughout the Coast Ranges south from Sonoma Co. An isolated population occurs in Siskiyou Co. (Stebbins 2003).	No. Habitat for this species does not occur in the PSA.
T/ T		1, 2	Habitat requisites consist of 1) adequate water during the snake's active season (early spring through mid-fall) to provide food and cover; 2) emergent, herbaceous wetland vegetation, such as cattails and bulrushes, for escape cover and foraging habitat during the active season; 3) grassy banks and openings in waterside vegetation for basking; and 4) higher elevation uplands for cover and refuge from flood waters during the snake's winter dormant season (Stebbins 2003).	No. Habitat for this species does not occur in the PSA. The PSA is outside the geographic distribution of this species.
/	CSC	2	Breeds in the North Coast Ranges and through the Sierra Nevada, Klamath, Cascade, and Warner Mountains. Possibly also breeds in Mt. Piños, San Jacinto, San Bernardino, and White Mts. Remains yearlong in breeding areas as a scarce to uncommon resident. Prefers middle and higher elevations, and mature, dense conifer and deciduous forests. Usually nests on north slopes, near water, in densest parts of stands, but close to openings (Zeiner et al. 1990a).	No. Habitat for this species does not occur in the PSA.
/	CSC	2	Nomadic, breeds near freshwater, preferably in emergent marsh of dense cattails or tules, and also in thickets of willow, blackberry, and wild rose. Highly colonial; nesting area must be large enough to support a minimum colony of about 50 pairs (Zeiner et al. 1990a).	No. Habitat for this species does not occur in the PSA.
T/ E	FP	1	Restricted to breeding mostly in Butte, Lake, Lassen, Modoc, Plumas, Shasta, Siskiyou, and Trinity Counties. More widespread as a winter migrant. Occurs along coasts, rivers, and large, deep lakes and reservoirs inland. Requires large, stoutly limbed trees, snags, broken topped trees, or high rock ledges for perches (Zeiner et al. 1990a).	No. Habitat for this species does not occur in the PSA.
	Federal/State/ T/ T//	Federal/State Codes ^b / CSC T/ T / CSC / CSC	Federal/State Codes ^b Source c / CSC 2 T/T 1, 2 / CSC 2	Federal/State Codes b Source C Habitat Requirements Federal/State Codes b Source C Habitat Requirements / CSC 2 Occurs in valley-foothill hardwood, conifer, and riparian habitats, as well as in pine-cypress, juniper and annual grass habitats. Common in the lowlands along sandy washes where scattered low shrubs provide cover. Also needs open areas for sunning and fine, loose soil where it can bury itself (Stebbins 2003). Ranges in the Central Valley from southera Co. below 4,000 ft; below 6,000 ft in the mountains of southern California exclusive of desert regions; throughout the Coast Ranges south from Sonoma Co. An isolated population occurs in Siskiyou Co. (Stebbins 2003). T/T 1, 2 Habitat requisites consist of 1) adequate water during the snake's active season (early spring through mid-fall) to provide food and cover; 2) emergent, herbaceous wetland vegetation, such as cattails and bulrushes, for escape cover and foraging habitat during the active season; 3 grassy banks and openings in waterside vegetation for basking; and 4) higher elevation uplands for cover and refuge from flood waters during the snake's winter dormant season (Stebbins 2003). / CSC 2 Breeds in the North Coast Ranges and through the Sierra Nevada, Klamath, Cascade, and Warner Mountains. Possibly also breeds in Mt. Piños, San Jacinto, San Breardino, and mature, dense conifer and deciduous forests. Usually nests on north slopes, near water, in densest parts of stands, but close to openings (Zeiner et al. 1990a). / CSC 2 Nomadi

Special-Status Species/ Common Name	Listing Status ^a Federal/State	Other DFG Codes ^b	Source ^c	Habitat Requirements	Potential to Occur within the Project Study Area?
Lasionycteris noctivagans Silver-haired bat	/	CSC	2	Primarily a forest dweller, feeding over streams, ponds, and open brushy areas. Summer distribution includes coastal and montane forests from Oregon border along the coast to San Francisco Bay and along the sierra Nevada and Great Basin region to Inyo County. Also in Stanislaus and Monterey Counties. Summer habitats include coastal and montane coniferous forests, valley foothill woodlands, pinyon- juniper woodlands, and valley foothill and montane riparian habitats below 2,750 m (9000 ft) May be found anywhere in California during spring and fall migrations (Zeiner et al. 1990b).	No. There is no habitat for this species in the PSA.
<i>Martes pennanti</i> Fisher	C/	CSC	1	Permanent resident of Sierra Nevada, Cascades, Klamath Mountains, and the North Coast Range. Occurs above 3,200 ft in the Sierra Nevada and Cascades (Jameson and Peeters 2004). Prefers coniferous or deciduous riparian habitats with intermediate to large trees and closed canopies. Dens in tree/ log cavities and brush piles. Active yearlong, mostly nocturnal. Young born February through May (Zeiner et al. 1990b).	No. The PSA is outside the elevational range of this species. Habitat for this species does not occur in the PSA.
<i>Myotis yumanensis</i> Yuma myotis bat	/		1	Closely associated with water in a wide variety of habitats; optimal in open forests and woodlands with sources of water (ponds, streams) over which to feed. Roosts in buildings, mines, caves, or crevices; also in abandoned swallow nests and under bridges. May form large colonies, roosting with some other bat species (Zeiner et al. 1990b).	No. Habitat for this species does not occur in the PSA.
Special-Status Species/ Common Name	Listing Status ^a Federal/State	Other DFG Codes ^b / CNPS ^d	Source ^c	Habitat Requirements	Potential to Occur within the Project Study Area?
Plants				•	
Allium jepsonii Jepson's onion	/	/ 1B.2	2	Bulbiferous perennial herb found in serpentine or volcanic soils of chaparral, cismontane woodland, and lower montane coniferous forest from 950 to 4,350 ft. Blooms May through August (CNPS 2005).	No. Habitat for this species does not occur in the PSA.
Arctostaphylos nissenana Nissenan Manzanita	/	/ 1B.2	2	Evergreen shrub found in rocky closed-cone coniferous forest and chaparral from 1,475 to 3,610 ft in elevation. Known from El Dorado and Tuolumne counties. Blooms February through March (CNPS 2005).	Yes. See text.
Calochortus clavatus var. avius Pleasant Valley mariposa lily	/	/ 1B.2	2	Bulbiferous herb found in lower montane coniferous forest from 1,000- 5,900 ft in elevation. Known from Amador, Calaveras, El Dorado, and Mariposa Cos. Blooms May through July (CNPS 2005).	Yes. See text.
Calystegia stebbinsii Stebbins' morning-glory	E/ E	/ 1B.1	1	A perennial rhizomatous herb found in serpentine or gabbroic soils in chaparral openings and cismontane woodland from 600 to 2,400 ft elevation. Known from El Dorado and Nevada Counties. Blooms April through July (CNPS 2005).	No. The soil in the PSA is unsuitable for this species.
<i>Ceanothus roderickii</i> Pine Hill Ceanothus	E/ R	/ 1B.2	1	Evergreen shrub found in serpentine or gabbroic soils in chaparral and cismontane woodland from 850 to 2,100 ft elevation. Known from El Dorado County. Blooms May through June (CNPS 2005).	No. The soil in the PSA is unsuitable for this species.

Special-Status Species/ Common Name	Listing Status ^a Federal/State	Other DFG Codes ^b	Source ^c	Habitat Requirements	Potential to Occur within the Project Study Area?
Chlorogalum grandiflorum Red Hills soaproot	/	/ 1B.2	2	Perennial bulbiferous herb found in serpentine or gabbroic soils in chaparral, cismontane woodland, and lower montane coniferous forest from 800 to 3,300 ft. Blooms May through June (CNPS 2005).	No. The soil in the PSA is unsuitable for this species.
Clarkia biloba ssp. brandegeae Brandegee's clarkia	/	/ 1B.2	2	Annual herb found in chaparral and cismontane woodland, often on roadcuts, from 735 to 3,000 ft in elevation. Blooms May through July (CNPS 2005).	Yes. See text.
Fremontodendron californicum ssp. decumbens Pine Hill flannelbush	E/ R	/ 1B.2	1	Evergreen shrub found in rocky areas of serpentine or gabbroic soils in chaparral and cismontane woodland from 1,400 to 2,500 ft in elevation. Known from El Dorado, Nevada, and Yuba counties. Blooms April through July (CNPS 2005).	No. The soil in the PSA is unsuitable for this species.
Galium californicum ssp. sierrae El Dorado bedstraw	E/ R	/ 1B.2	1	Perennial herb found in gabbroic soils in chaparral, cismontane woodland, and lower montane coniferous forest from 300 to 1,900 ft in elevation. Known from El Dorado County. Blooms May through June (CNPS 2005).	No. The PSA is above the elevational range of this species. The soil in the PSA is unsuitable for this species.
Helianthemum suffrutescens Amador (Bisbee Peak) rush-rose	/	/ 3.2	2	Evergreen shrub found in chaparral from 150 to 2,750 ft elevation. Often found on serpentine, gabbroic or Ione soils. Blooms April through June (CNPS 2005).	No. The soil in the PSA is unsuitable for this species.
<i>Horkelia parryi</i> Parry's horkelia	/	/ 1B.2	2	Perennial herb found in chaparral and cismontane woodland, especially of the Ione formation, from 260 to 3,400 ft in elevation. Blooms April through June (CNPS 2005).	No. The soil in the PSA is unsuitable for this species.
Rorippa subumbellata Tahoe yellow-cress	C/ E	/ 1B.1	1	Perennial herb found in decomposed granitic beaches of lower montane coniferous forest and meadows and seeps from 6,200 to 6,250 ft in elevation. Known only from Lake Tahoe area. Blooms May through September (CNPS 2005).	No. The PSA is outside the elevational range of this species. Habitat for this species does not occur in the PSA.
Senecio (=Packaera) layneae Layne's butterweed (ragwort)	T/ R	/ 1B.2	1	Perennial herb found in rocky areas with serpentine or gabbroic soils in chaparral and cismontane woodland from 650 to 3,300 ft in elevation. Known from El Dorado, Tuolumne, and Yuba counties. Blooms April through July (CNPS 2005).	No. The soil in the PSA is unsuitable for this species.
Viburnum ellipticum Oval-leaved viburnum	/	/ 2.2	2	Deciduous shrub found in chaparral, cismontane woodland and lower montane coniferous forest from 705 to 4,593 ft in elevation. Blooms May through June (CNPS 2005).	Yes. See text.
Wyethia reticulata El Dorado County mule ears	/	/ 1B.2	2	Perennial rhizomatous herb found in clay or gabbroic soils in chaparral, cismontane woodland, and lower montane coniferous forest from 600 to 2,050 ft elevation. Known from El Dorado Co. Blooms May through July (Ayres and Ryan 1999, CNPS 2005).	No. The soil in the PSA is unsuitable for this species.
Natural Communities					
Central Valley Drainage Resident Rainbow Trout	/	/	2	This community classification identifies drainages in the Central Valley that contain resident rainbow trout. This species requires near permanent waterbodies.	The channels in the PSA do not provide habitat for rainbow trout.
Central Valley Drainage Hardhead/ Squawfish Stream	/	/	2	Hardhead occur in low- to mid-elevation streams and the mainstem Sacramento River. Sacramento pikeminnow (squawfish) occur in similar streams with clear water (Moyle 2002).	The channels in the PSA do not provide habitat for Hardhead.

Special-Status Species/ Common Name	Listing Status ^a Federal/State	Other DFG Codes ^b	Source ^c	Habitat Requirements	Potential to Occur within the Project Study Area?
Sacramento-San Joaquin Foothill/Valley Ephemeral Stream	/	/	2	This community classification apparently identifies perennial streams that contain a diverse group of aquatic invertebrates. The meaning "ephemeral" as used in the title of this community classification is unknown. The one CNDDB record for this community is located on a solid blueline stream (Jackass Canyon) on the Camino USGS 7.5" quad. The solid blueline indicates that this stream is perennial.	This community does not occur in the PSA.

^a Listing Status: Federal status determined from USFWS letter. State status determined from DFG (2006c, d). Codes used in table are as follows:

E = Endangered; T = Threatened; CH = Critical Habitat; P = Proposed; PT = Proposed Threatened; PE = Proposed Endangered; R = California Rare; * = Possibly extinct.

C = Candidate: Taxa for which the Fish and Wildlife Service has sufficient biological information to support a proposal to list as endangered or threatened.

^b **CSC** = State Species of Special Concern, **FP** = Fully Protected.

^c Sources. 1 = Compiled from USFWS letter; 2 = From CNDDB Lists or RareFind; 3 = Observed during survey.
 ^d <u>CNPS List</u>. 1A = Presumed Extinct in CA; 1B = Rare or Endangered in CA and elsewhere; 2 = R/E in CA and more common elsewhere; 3 = Need more information; 4 = Plants of limited distribution.

e CNPS List Decimal Extensions: .1 = Seriously endangered in California (over 80% of occurrences threatened / high degree and immediacy of threat); .2 = Fairly endangered in California (20-80% occurrences threatened); .3 = Not very endangered in California (<20% of occurrences threatened or no current threats known).

APPENDIX D.

Plant and Wildlife Species Observed

Piedmont Oak Estates

El Dorado County, CA

Family	Scientific Name	Common Name	*
FERNS & ALLIES			
Pteridaceae	Pentagramma triangularis	Goldback fern	Ν
CONIFERS	0 0		
Pinaceae	Pinus ponderosa	Pacific ponderosa pine	N
	Pinus sabiniana	Gray pine	N
	Pseudotsuga menziesii	Douglas fir	N
DICOTS			
Amaranthaceae	Amaranthus sp.	Pigweed	
Anacardiaceae	Toxicodendron diversilobum	Western poison oak	N
Apiaceae	Daucus carota	Carrot	Ι
	Torilis arvensis		Ι
Asteraceae	Achillea millefolium	Yarrow	Ν
	Artemisia douglasiana	Mugwort	Ν
	Baccharis pilularis	Coyote brush	Ν
	Carduus pycnocephalus	Italian thistle	Ι
	Centaurea solstitialis	Yellow star-thistle	Ι
	Cichorium intybus	Chicory	
	Cirsium vulgare	Bull thistle	
	Gnaphalium sp.	Cudweed	
	Holocarpha virgata		N
	Lactuca serriola	Prickly lettuce	Ι
	Micropus californicus var. californicus	Slender cottonweed	
	Tragopogon sp.	Goat's beard	
Bignoniaceae	<i>Catalpa</i> sp.		Ι
Brassicaceae	Rorippa sp.**	Water cress	Ν
Caprifoliaceae	Lonicera sp.		Ν
Caryophyllaceae	Spergularia sp.	Sand-spurrey	
* * *	Stellaria media	Common chickweed	Ι
Ericaceae	Arctostaphylos sp.	Manzanita	Ν
Euphorbiaceae	Eremocarpus setigerus	Dove weed; Turkey mullein	Ν
Fabaceae	Trifolium hirtum	Rose clover	Ι
	Trifolium sp.		
	Vicia villosa ssp. villosa	Hairy vetch	Ι
Fagaceae	Quercus douglasii	Blue oak	N
	Quercus kelloggii	California black oak	N
	Quercus lobata	Valley oak	N
	Quercus wislizenii var. wislizenii	Interior live oak	N
Geraniaceae	<i>Erodium cicutarium</i>	Filaree	Ι
Hippocastanaceae	Aesculus californica	California buckeye	N
Hypericaceae	Hypericum perforatum	Klamathweed	Ι
Lamiaceae	Mentha sp.		
	Stachys sp.	Hedge nettle	N
	Trichostema lanceolatum	Vinegar weed	Ν
Lythraceae	Lythrum hyssopifolium		I

Malvaceae	<i>Sidalcea</i> sp.		N
Onagraceae	Epilobium brachycarpum	Fireweed	N
Papaveraceae	Eschscholzia californica	California poppy	N
Plantaginaceae	Plantago lanceolata	English plantain	Ι
Polygonaceae	Polygonum arenastrum	Common knotweed	Ι
	Polygonum sp.		
	Rumex conglomeratus	Dock	Ι
	Rumex crispus	Curly dock	Ι
Ranunculaceae	Ranunculus sp.		
Rhamnaceae	Ceanothus cuneatus var. cuneatus	Buck brush	Ν
	Rhamnus tomentella ssp. tomentella	Hoary coffeeberry	N
Rosaceae	Heteromeles arbutifolia	Toyon	Ν
	Prunus sp.		Ι
	<i>Pyrus</i> sp.	Pear	Ι
	Rubus discolor	Himalayan blackberry	Ι
Rubiaceae	Galium aparine	Goose grass	N
	Galium parisiense	Wall bedstraw	Ι
Salicaceae	Salix sp.	Willow	Ν
Scrophulariaceae	Kickxia elatine	Fluellin	Ι
	Mimulus guttatus	Yellow monkeyflower	Ν
	Verbascum thapsus	Woolly mullein	Ι
Simaroubaceae	Ailanthus altissima	Tree of heaven	Ι
Verbenaceae	Verbena litoralis	Verbena	Ι
Vitaceae	Vitis californica	California wild grape	Ν
MONOCOTS			
Cyperaceae	Carex sp.		Ν
	Cyperus eragrostis	Nut sedge	Ν
	Eleocharis macrostachya	Spikerush	Ν
Juncaceae	Juncus balticus	Baltic rush	N
	Juncus bufonius	Toad rush	Ν
	Juncus sp.	Rush	Ν
Liliaceae	Chlorogalum grandiflorum	Red Hills soaproot	Ν
Poaceae	Aegilops triuncialis	Barbed goatgrass	Ι
	Aira caryophyllea	Silver European hairgrass	Ι
	Avena fatua	Wild oat	Ι
	Briza minor	Quaking grass	Ι
	Bromus diandrus	Ripgut grass	Ι
	Bromus hordeaceus	Soft brome	I
	Bromus madritensis ssp. rubens	Foxtail chess	I
	Cynodon dactylon	Bermuda grass	I
	Cynosurus echinatus	Hedgehog dogtail	I
	Deschampsia danthonioides	Annual hairgrass	N
	Elymus glaucus	Blue wildrye	N
	Gastridium ventricosum	Nit grass	I
	Hordeum marinum ssp. gussoneanum	Mediterranean barley	I
	Lolium multiflorum	Italian ryegrass	I
	Muhlenbergia rigens	Deergrass	N
	Phalaris sp.		
	Poa bulbosa	Bulbous bluegrass	I
	Polypogon monspeliensis	Annual beard grass	I
	Taeniatherum caput-medusae	Medusa head	I
	Vulpia myuros var. myuros	Vulpia	Ι

* N = Native to CA; I = Introduced

** Not Rorippa subumbellata: R. subumbellata is a perennial species; the Rorippa sp. observed in the PSA was an annual.

Wildlife Species Observed.

Common Name	Scientific Name
BIRDS	
Acorn woodpecker	Melanerpes formicivorus
California quail	Callipepla californica
Common raven	Corvus corax
Bushtit	Psaltriparus minimus
Mourning dove	Zenaida macroura
Scrub jay	Aphelocoma coerulescens
Wild turkey	Meleagris gallopavo
MAMMALS	
California ground squirrel	Spermophilus beecheyi
Black-tailed jackrabbit	Lepus californicus
Mule deer/ black-tailed deer	Odocoileus hemionus

APPENDIX E.

Photographs of the Project Study Area

Piedmont Oak Estates

El Dorado County, CA



Photo 1. View from southwestern portion of PSA looking west at SW 3 (white arrow). Red arrow shows location of State Highway 49. 9 September 2006.



Photo 3. View from west central portion of PSA looking southeast at mixed oak woodland community (background). 9 September 2006



Photo 5. View from southern PSA looking north at mixed oak woodland community. 10 September 2006.



Photo 2. View from northwest central portion of the PSA looking downstream (north) at CH 1 (white arrow). 9 September 2006.



Photo 4. View from south central portion of PSA looking southeast a graded/ excavated area. 9 September 2006.



Photo 6. View from southwestern portion of PSA looking northeast at SW 1 (white arrow). 9 September 2006.

APPENDIX F.

Channel & Wetland Data Sheets

Piedmont Oak Estates

El Dorado County, CA

Field Personnel:	Adam Forbes M.S.	Channel #:	1
Project/ Site:	Piedmont Oak Estates	Date:	9 Sept 2006
Applicant/ Owner:	Piedmont Oak Estates LLC	County, State:	El Dorado, CA

CONDITION OF CHANNEL

Channel #:	Average Width: (ft)	Condition of channel bed:	Vegetation present:	Does water flow appear permanent/ intermittent/ unknown?	Is a defined bed and bank present?
CH-1	2.5 ft	Scoured soil, sand, gravel and bedrock	Lolium multiflorum, Aesculus californica, Juncus bufonius	Ephemeral	Yes
Photos	taken?	Data Points Mapped?	Are hydrophytic species present?		
Y	es	Yes	Marginal		

Other comments/ observations:

JURISDICTIONAL DETERMINATION AND RATIONALE

Is this channel jurisdictional? Yes

Rationale for jurisdictional decision: Defined bed and bank present. Evidence of flow.

Field Personnel:	Adam Forbes M.S.	Channel #:	1a &1a1
Project/ Site:	Piedmont Oak Estates	Date:	9 Sept 2006
Applicant/ Owner:	Piedmont Oak Estates LLC	County, State:	El Dorado, CA

CONDITION OF CHANNEL

Channel #:	Average Width: (ft)	Condition of channel bed:	Vegetation present:	Does water flow appear permanent/ intermittent/ unknown?	Is a defined bed and bank present?
CH-1a & 1a1	1a = 1.5 ft 1a1 = 1 ft	Scoured soil	Pinus sabiniana, Elymus glaucus, Toxicodendron diversilobum	Ephemeral	Yes
Photos	taken?	Data Points Mapped?	Are hydrophytic species present?		
		Yes	Marginal		

Other comments/ observations:

JURISDICTIONAL DETERMINATION AND RATIONALE

Is this channel jurisdictional? Yes

Rationale for jurisdictional decision: Defined bed and bank present. Evidence of flow.

Field Personnel:	Adam Forbes M.S.	Channel #:	1b
Project/ Site:	Piedmont Oak Estates	Date:	9 Sept 2006
Applicant/ Owner:	Piedmont Oak Estates LLC	County, State:	El Dorado, CA

CONDITION OF CHANNEL

Channel #:	Average Width: (ft)	Condition of channel bed:	Vegetation present:	Does water flow appear permanent/ intermittent/ unknown?	Is a defined bed and bank present?
CH-1c	1 ft	Scoured soil	Toxicodendron diversilobum, Elymus glaucus, Pinus sabiniana	Ephemeral	Yes
Photos	taken?	Data Points Mapped?	Are hydrophytic species present?		
		Yes	No		

Other comments/ observations:

JURISDICTIONAL DETERMINATION AND RATIONALE

Is this channel jurisdictional? Yes

Field Personnel:	Adam Forbes M.S.	Channel #:	2
Project/ Site:	Piedmont Oak Estates	Date:	9 Sept 2006
Applicant/ Owner:	Piedmont Oak Estates LLC	County, State:	El Dorado, CA

CONDITION OF CHANNEL

Channel #:	Average Width: (ft)	Condition of channel bed:	Vegetation present:	Does water flow appear permanent/ intermittent/ unknown?	Is a defined bed and bank present?
CH-2	4.5 ft	Cobble, sand, gravel, bedrock	Rubus discolor, Vitis californica, Aesculus californica, Quercus kelloggii	Intermittent	Yes
Photos	taken?	Data Points Mapped?	Are hydrophytic species present?		
Y	es	Yes	Yes		

Other comments/ observations: Shallow ponded water throughout, trickle of flow in some areas.

JURISDICTIONAL DETERMINATION AND RATIONALE

Is this channel jurisdictional? Yes

Field Personnel:	Adam Forbes M.S.	Channel #:	2
Project/ Site:	Piedmont Oak Estates	Date:	9 Sept 2006
Applicant/ Owner:	Piedmont Oak Estates LLC	County, State:	El Dorado, CA

CONDITION OF CHANNEL

Channel #:	Average Width: (ft)	Condition of channel bed:	Vegetation present:	Does water flow appear permanent/ intermittent/ unknown?	Is a defined bed and bank present?
CH-2a	1.5 ft	Scoured soil, bedrock	Quercus kelloggii, Lolium multiflorum, Toxicodendron diversilobum, Aesculus californica	Ephemeral	Yes
Photos	taken?	Data Points Mapped?	Are hydrophytic species present?		
Y	es	Yes	Marginal		

Other comments/ observations:

JURISDICTIONAL DETERMINATION AND RATIONALE

Is this channel jurisdictional? Yes

Field Personnel:	Adam Forbes M.S.	Channel #:	2a
Project/ Site:	Piedmont Oak Estates	Date:	9 Sept 2006
Applicant/ Owner:	Piedmont Oak Estates LLC	County, State:	El Dorado, CA

CONDITION OF CHANNEL

Channel #:	Average Width: (ft)	Condition of channel bed:	Vegetation present:	Does water flow appear permanent/ intermittent/ unknown?	Is a defined bed and bank present?
CH-2a1	1 ft	Scoured soil	Elymus glaucus, Torilis arvensis, Bromus diandrus, Arctostaphylos sp.	Ephemeral	Yes
Photos	taken?	Data Points Mapped?	Are hydrophytic specie	es present?	
		Yes	No		

Other comments/ observations:

JURISDICTIONAL DETERMINATION AND RATIONALE

Is this channel jurisdictional? Yes

		(198)	/ COE Wetlan	ds Delineation Man	ual)		
Field Investigator(s):	Adam Forbes M	I.S.		D	ate: 9 September	06 DP No.	.: 1
Project/Site:	Piedmont Oak H	Estates		S	ate: CA		
Applicant/Owner:	Piedmont Oak H	Estates LLC		Cou	nty: El Dorado		
Do Normal Circumstan	nces exist on the	site?		Yes 🛛 No 🛛	Community II	D: Seasonal We	tland
Is the site significantly	disturbed (Atypi	cal Situatior	n)?	Yes 🗌 No 🕻	Transect ID):	
Is the site a potential P	roblem Area? (If	needed, exp	lain below)	Yes No	Plot IE):	
VEGETATION	· · · · ·		,				
Dominant Plan	t Species	Stratum	Indicator	Domina	nt Plant Species	Stratum	Indicator
	•	TT	EAC			TT	FACIL
1. Lolium multiflorum		Н	FAC	5. Bromus hord		Н	FACU
2 Lun and at least I		TT	EACW	6. Micropus cal	<i>ijornicus</i> var.	тт	
2. Juncus sp. (at least I	TACW)	Н	FACW	californicus		Н	
3. Rumex crispus		Н	FACW-	7. Juncus bufon	ius	Н	FACW+
A Mimulus outtatus		Н	OBL				
4. <i>Mimulus guttatus</i> Percent of Dominant S	manian that and O				7 - 710/		
Remarks:	pecies that are O	BL, FACW,	or FAC (exc	cluding FAC-): 5	7/1 = 71%		
Kelliarks.							
			XX7-41				
HYDROLOGY	aniha in Damad			and Hydrology			
Recorded Data (De		s):		ary Indicators:		ndary Indicators	` .
	e, or Tide Gauge					or more required	
Aerial Photo	ographs			aturated in upper 2 inches		xidized root chan	nels in
\boxtimes No Recorded Data	Available			2 menes Vater marks		pper 12 inches	ata
Field Observations:	Available			Prift lines		ocal soil survey d AC-Neutral Test	ata
	- 4	(\cdot, \cdot)		ediment deposits		ther (explain in re	amarka)
Depth of Surface W		_ (in.)		Prainage patterns i			
Depth to Free Water		(in.)		ramage patterns i		ater-stained leav	68
Depth to Saturated S		(in.) (in.)		famage patterns i		ater-stained leav	68
-						ater-stained leav	
Depth to Saturated S						vater-stained leav	
Depth to Saturated S Remarks:	Soil:					ater-stained leav	
Depth to Saturated S Remarks: SOILS Map Unit Nam	Soil:	(in.)			Field Observatior		
Depth to Saturated S Remarks: SOILS Map Unit Nam (Series	Soil: ne and Phase): <u>Pla</u>	(in.)			Field Observation	ıs Confirm Mapp	
Depth to Saturated S Remarks: SOILS Map Unit Nam (Series Taxonomy	Soil: ne and Phase): Pla (Subgroup):	(in.)				ıs Confirm Mapp	
Depth to Saturated S Remarks: SOILS Map Unit Nam (Series Taxonomy Drai	Soil: ne and Phase): Pla (Subgroup): inage Class:	(in.)	55		Field Observation	ns Confirm Mapp Zes □ No	ed Type?
Depth to Saturated S Remarks: SOILS Map Unit Nam (Series Taxonomy Drai Depth	Soil: ne and Phase): Pla (Subgroup):	(in.) acer Digging	<u></u>	ottle Colors	Field Observation	ns Confirm Mapp Yes 🗌 No E/ Texture, G	ed Type? Concretions,
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Depth to Saturated S Remarks: SOILS Map Unit Nam (Series Taxonomy G Drai Depth (inches) Hor 0-10 Hydric Soil Indicator Histosol Histic Epi Sulfidic O Aquic Mo	Soil: and Phase): Pla (Subgroup): (Subgroup): (Subgroup): (Subgroup): Inage Class: Ma izon (Mu 7. 5: pedon dor isture Regime	(in.) acer Digging atrix Color asell Moist)	<u>Mc</u>	ttle Colors nsell Moist) 5YR 4/6 Concretions High Organic C Organic Streaki Listed on Local	Field Observation Field Observation Y Mottle Abundance Contrast Common/ Prominent	as Confirm Mapp Yes D No 2/ Texture, C Struct Sand ayer Sandy Soils	ed Type? Concretions, ture, etc.
Depth to Saturated S Remarks: SOILS Map Unit Nam (Series Taxonomy G Drai Depth (inches) Hor 0-10 Hydric Soil Indicator Histic Epi Sulfidic O Aquic Mo Reducing	Soil: and Phase): Pla (Subgroup): (Subgroup): (Subgroup): (Subgroup): (Subgroup): Ma izon (Mu Ma izon (Mu izon (Mu iz	(in.) acer Digging atrix Color nsell Moist) 5YR 4/2	<u>Mc</u>	ttle Colors nsell Moist) 5YR 4/6 Concretions High Organic C Organic Streaki Listed on Local Listed on Natio	Field Observation Field Observation Mottle Abundance Contrast Common/ Prominent	as Confirm Mapp Yes D No 2/ Texture, C Struct Sand ayer Sandy Soils	ed Type? Concretions, ture, etc.
Depth to Saturated S Remarks: SOILS Map Unit Nam (Series Taxonomy G Depth	Soil: and Phase): Pla (Subgroup): (Subgroup): (Subgroup): (Subgroup): Inage Class: Ma izon (Mu 7. 5: pedon dor isture Regime	(in.) acer Digging atrix Color nsell Moist) 5YR 4/2	<u>Mc</u>	ttle Colors nsell Moist) 5YR 4/6 Concretions High Organic C Organic Streaki Listed on Local	Field Observation Field Observation Mottle Abundance Contrast Common/ Prominent	as Confirm Mapp Yes D No 2/ Texture, C Struct Sand ayer Sandy Soils	ed Type? Concretions, ture, etc.
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			7 COE Wetlan	ds Delineation Manual)		
Field Investigator(s):	Adam Forbes M.			Date	: 9 September 06	DP No.	: 2
Project/Site:	Piedmont Oak E	states		State	: CA		
Applicant/Owner:	Piedmont Oak E	states LLC		County	: El Dorado		
Do Normal Circumstan	nces exist on the s	ite?		Yes 🛛 No 🗌	Community ID: U	pland	
Is the site significantly	disturbed (Atypic	al Situatior	n)?	Yes 🗌 No 🖂	Transect ID:		
Is the site a potential P				Yes \square No \square	Plot ID:		
VEGETATION			, , , , , , , , , , , , , , , , , , ,				
Dominant Plan	t Species	Stratum	Indicator	Dominant	Plant Species	Stratum	Indicator
1 0 1 1	-	ш	EACU	5 0 1 1	•	TT	
1. Bromus hordeaceus		Н	FACU	5. Bromus diandru	S	Н	
2. Cynosurus echinatu.	5	Н		6. Toxicodendron	liversilobum	S	
3. Lolium multiflorum		Н	FAC	7.Trifolium sp.		Н	
4. Quercus wislizenii v	ar. wislizenii	Т		8. Aira caryophylle	2a	Н	
Percent of Dominant S		BL, FACW,	or FAC (exc			1	
Remarks:	1	, ,		0 ,			
HYDROLOGY			Wetl	and Hydrology Ind	icators:		
Recorded Data (De	scribe in Remarks	.)·		ary Indicators:		/ Indicators	
	e, or Tide Gauge	,) .		undated		ore required).
Aerial Photo				aturated in upper		d root chan	
Other	Shupins			2 inches		2 inches	ileib ili
No Recorded Data	Available			Vater marks		oil survey d	ata
Field Observations:				Prift lines		eutral Test	
Depth of Surface W	ater	(in.)		ediment deposits		explain in re	emarks)
-		. ,		rainage patterns in v		stained leav	
Donth to Free Water	· in Uiti						
Depth to Free Water		(in.)		0.1		stanica ica v	65
Depth to Saturated S	Soil:	(in.)		6.1		stanica icav	
-	Soil:	(in.)					
Depth to Saturated S	Soil:	(in.)					
Depth to Saturated S	Soil: ce of wetland hydr	(in.)					
Depth to Saturated S Remarks: No evidence SOILS Map Unit Name	Soil: ce of wetland hydr	(in.)			vield Observations Co		
Depth to Saturated S Remarks: No evidence SOILS Map Unit Name	Soil: ce of wetland hydr ne and Phase): <u>Pla</u>	(in.) rology.			ield Observations Co	nfirm Mappo	
Depth to Saturated S Remarks: No evidence SOILS Map Unit Nam (Series Taxonomy of	Soil: ce of wetland hydr ne and Phase): Plac (Subgroup):	(in.) rology.					
Depth to Saturated S Remarks: No evidence SOILS Map Unit Nam (Series Taxonomy (Drai	Soil: ce of wetland hydr ne and Phase): Pla- (Subgroup): inage Class:	(in.) rology.	55	H	ield Observations Co	nfirm Mappo	ed Type?
Depth to Saturated S Remarks: No evidence SOILS Map Unit Nam (Series Taxonomy of Drai Depth	Soil: ce of wetland hydr ne and Phase): Pla (Subgroup): inage Class: Mat	(in.) rology. cer Digging	gs Mo	H	ïeld Observations Cor ⊠ Yes	nfirm Mappo No Texture, C	
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Depth to Saturated S Remarks: No evidence SOILS Map Unit Nam (Series Taxonomy of Drai Depth	Soil: ce of wetland hydr and Phase): <u>Pla</u> (Subgroup): inage Class: Mat izon (Mun	(in.) rology. cer Digging	gs Mo	H H H H H H H H H H H H H H H H H H H	ïeld Observations Cor ⊠ Yes lottle Abundance/	nfirm Mappo No Texture, C Struct	ed Type? Concretions,
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Depth to Saturated S Remarks: No evidence SOILS Map Unit Nam (Series Taxonomy (Drai Depth (inches) Hor 0-10 Hydric Soil Indicator Histosol Histic Epi	Soil: ce of wetland hydr ne and Phase): Plac (Subgroup): inage Class: Mat izon (Mun 7.5 s: pedon	(in.) rology. cer Digging rrix Color sell Moist)	gs Mo	I Concretions High Organic Cont	Field Observations Con Yes lottle Abundance/ Contrast ent in Surface Layer S	nfirm Mappo No Texture, C Struct Sand	ed Type? Concretions, ure, etc.
Depth to Saturated S Remarks: No evidend SOILS Map Unit Nam (Series) Taxonomy (Drail Depth (inches) Hor 0-10 Hydric Soil Indicator Histosol Histic Epi Sulfidic O	Soil: ce of wetland hydr ne and Phase): Play (Subgroup): inage Class: Mat izon (Mun izon 7.5	(in.) rology. cer Digging rrix Color sell Moist)	gs Mo	I Concretions High Organic Contractions Organic Streaking	Field Observations Con ∑ Yes Iottle Abundance/ Contrast ent in Surface Layer S in Sandy Soils	nfirm Mappo No Texture, C Struct Sand	ed Type? Concretions, ure, etc.
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Depth to Saturated S Remarks: No evidence SOILS Map Unit Nam (Series Taxonomy (Drai Depth (inches) Hor 0-10 Hydric Soil Indicator Histic Epi Sulfidic O Aquic Mo Reducing	Soil: ce of wetland hydr ne and Phase): <u>Pla</u> (Subgroup): inage Class: Mat izon (Mun 7.: s: pedon odor isture Regime Conditions	(in.) rology. cer Digging rrix Color sell Moist) 5YR 4/4	gs Mo	Image: Solution of the second seco	Field Observations Con ∑ Yes Tottle Abundance/ Contrast ent in Surface Layer S in Sandy Soils rdric Soils List Hydric Soils List	nfirm Mappo No Texture, C Struct Sand	ed Type? Concretions, ure, etc.
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Depth to Saturated S Remarks: No evidend SOILS Map Unit Nam (Series) Taxonomy (Drail Depth (inches) Hor 0-10 Hydric Soil Indicator Histosol Histic Epi Sulfidic O Aquic Mo Gleyed or Remarks: Not hydric.	Soil: ce of wetland hydr ne and Phase): Plac (Subgroup): inage Class: Mat izon (Mun iston (Mun 7.5 s: pedon dor isture Regime Conditions Low-Chroma Col	(in.) rology. cer Digging rix Color sell Moist) 5YR 4/4	Mo (Mu	Final Provide the test of test	Field Observations Con ∑ Yes Tottle Abundance/ Contrast ent in Surface Layer S in Sandy Soils rdric Soils List Hydric Soils List Remarks)	nfirm Mappe	ed Type? Concretions, ure, etc. y loam
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		(198)	7 COE Wetlan	ds Delineation Ma	inual)		
Field Investigator(s):	Adam Forbes M	.S.]	Date: 9 September 0	6 DP No .	.: 3
Project/Site:	Piedmont Oak E	states			State: CA		
Applicant/Owner:	Piedmont Oak E	states LLC		Co	unty: El Dorado		
				_	_		
Do Normal Circumsta				Yes 🛛 No	Community ID:	Upland	
Is the site significantly				Yes 🗌 No			
Is the site a potential P	roblem Area? (If	needed, exp	lain below)	Yes No	Plot ID:	I	1
VEGETATION							
Dominant Plan	t Species	Stratum	Indicator	Domin	ant Plant Species	Stratum	Indicator
1. Cynosurus echinatu	S	Н		5. Carduus pyc	cnocephalus	Н	
2. Lolium multiflorum		Н	FAC	6. Arctostaphy	.	S	
3. Toxicodendron dive	rsilohum	S			···· ···	~	
4. Quercus wislizenii v		T					
Percent of Dominant S			r EAC (eyc	luding FAC_): 1	1/6 - 17%		
Remarks:	species that are of	JL, I'AC W,	of PAC (CAC	iuuiiig l'AC-).	1/0 = 17/0		
Kelliarks.							
HYDROLOGY			Wot	and Hydrology	Indicators		
Recorded Data (De	scribe in Remarks	а) .		ary Indicators:		dary Indicators	
	e, or Tide Gauge	<i>.</i> ,		undated		r more required).
Aerial Photo				aturated in upper		dized root chan	
Other	8F			2 inches		per 12 inches	
No Recorded Data	Available		U W	ater marks		al soil survey d	ata
Field Observations:			🗌 🗌 D	rift lines	🗌 FA	C-Neutral Test	
Depth of Surface W	ater:	(in.)		ediment deposits		er (explain in r	emarks)
Depth to Free Water		(in.)		rainage patterns	in wetlands 🗌 Wa	ter-stained leav	res
_		(in.)					
Depth to Saturated S	Soil:	(III.)					
Depth to Saturated S Remarks: No evident							
Remarks: No evidence	ce of wetland hydr		I				
Remarks: No evidend SOILS Map Unit Nan	ce of wetland hydr				Field Observations	Confirm Mapp	ed Type?
Remarks: No evidend SOILS Map Unit Nan (Series	ce of wetland hydr ne and Phase):						ed Type?
Remarks: No evident SOILS Map Unit Nan (Series Taxonomy	ce of wetland hydr ne and Phase): (Subgroup):				Field Observations		ed Type?
Remarks: No evidend SOILS Map Unit Nam (Series Taxonomy Dra	ce of wetland hydr ne and Phase): (Subgroup): inage Class:		Mo	ttle Colors		s 🗌 No	
Remarks: No evident SOILS Map Unit Nam (Series Taxonomy Dra Depth	ce of wetland hydr ne and Phase): (Subgroup): inage Class: Ma	rology.		ttle Colors nsell Moist)	☐ Ye	s 🗌 No Texture, 0	Concretions,
Remarks: No evident SOILS Map Unit Nam (Series Taxonomy Dra Depth	ce of wetland hydr ne and Phase): (Subgroup): inage Class: Ma	rology.			Ye Mottle Abundance/	s 🗌 No Texture, 0	
Remarks: No evident SOILS Map Unit Nam (Series Taxonomy Dra Depth	ce of wetland hydr ne and Phase): (Subgroup): inage Class: Ma	rology.			Ye Mottle Abundance/	s 🗌 No Texture, 0	Concretions,
Remarks: No evident SOILS Map Unit Nan (Series) Taxonomy Dra Depth (inches)	ce of wetland hydr ne and Phase): (Subgroup): inage Class: Mar izon (Mun	rology.			Ye Mottle Abundance/	s 🗌 No Texture, 0	Concretions,
Remarks: No evident SOILS Map Unit Nan (Series) Taxonomy Dra Depth (inches) Hor	ce of wetland hydr ne and Phase): (Subgroup): inage Class: Mar izon (Mun	rology.		nsell Moist)	Ye Mottle Abundance/	s 🗌 No Texture, 0	Concretions,
Remarks: No evident SOILS Map Unit Nan (Series Taxonomy Dra Depth (inches) Hor Hor Histosol	ce of wetland hydr ne and Phase): (Subgroup): inage Class: Ma izon (Mur rs:	rology.		nsell Moist)	Ye Mottle Abundance/ Contrast	s 🗌 No Texture, (Struct	Concretions,
Remarks: No evidend SOILS Map Unit Nan (Series Taxonomy Dra Depth (inches) Hor Hor Histosol Histosol Histic Epi	ce of wetland hydr ne and Phase): (Subgroup): inage Class: Mar izon (Mur rizon rs: pedon	rology.		nsell Moist) Concretions High Organic (Ye Mottle Abundance/ Contrast Contrast	s 🗌 No Texture, (Struct	Concretions,
Remarks: No evident SOILS Map Unit Nam (Series) Taxonomy Dra Depth (inches) Hor Hydric Soil Indicator Histosol Histic Epi Sulfidic C	ce of wetland hydr ne and Phase): (Subgroup): inage Class: Mar izon (Mur izon rs: pedon bdor	rology.		nsell Moist) Concretions High Organic (Organic Streak	Ye Mottle Abundance/ Contrast Content in Surface Lay cing in Sandy Soils	s 🗌 No Texture, (Struct	Concretions,
Remarks: No evident SOILS Map Unit Nam (Series) Taxonomy Dra Depth (inches) Hor Hydric Soil Indicator Histosol Histic Epi Sulfidic C Aquic More	ce of wetland hydr ne and Phase): (Subgroup): inage Class: Mar izon (Mur rizon rs: pedon	rology.		Sell Moist) Concretions High Organic (Organic Streak Listed on Loca	Ye Mottle Abundance/ Contrast Contrast	s 🗌 No Texture, (Struct	Concretions,
Remarks: No evident SOILS Map Unit Nam (Series) Taxonomy Dra Depth (inches) Hor Hydric Soil Indicator Histosol Histic Epi Sulfidic C Aquic Mo Reducing	ce of wetland hydr ne and Phase): (Subgroup): inage Class: Mar izon (Mun izon s: pedon bdor isture Regime	trix Color usell Moist)		Sell Moist) Concretions High Organic (Organic Streak Listed on Loca	Ye Mottle Abundance/ Contrast Content in Surface Lay cing in Sandy Soils al Hydric Soils List onal Hydric Soils List	s 🗌 No Texture, (Struct	Concretions,
Remarks: No evident SOILS Map Unit Nam (Series) Taxonomy Dra Depth (inches) Hor Hydric Soil Indicator Histosol Histic Epi Sulfidic C Aquic Mo Reducing	ce of wetland hydr ne and Phase): (Subgroup): inage Class: Mai izon (Mun rs: pedon bdor isture Regime Conditions Low-Chroma Co	trix Color usell Moist)	(Mu	Sell Moist) Concretions High Organic (Organic Streak Listed on Loca Listed on Natio	Ye Mottle Abundance/ Contrast Content in Surface Lay cing in Sandy Soils al Hydric Soils List onal Hydric Soils List	s 🗌 No Texture, (Struct	Concretions,
Remarks: No evident SOILS Map Unit Nan (Series) Taxonomy Dra Depth (inches) Hor Hydric Soil Indicator Histosol Histic Epi Sulfidic C Aquic Mo Gleyed or Remarks: Soil pit unn	ce of wetland hydr ne and Phase): (Subgroup): inage Class: Mar izon (Mur izon rs: pedon dor isture Regime Conditions Low-Chroma Con ecessary (1987 M	trix Color usell Moist)	(Mu	Sell Moist) Concretions High Organic (Organic Streak Listed on Loca Listed on Natio	Ye Mottle Abundance/ Contrast Content in Surface Lay cing in Sandy Soils al Hydric Soils List onal Hydric Soils List	s 🗌 No Texture, (Struct	Concretions,
Remarks: No evident SOILS Map Unit Nam (Series) Taxonomy Dra Depth (inches) Hor Hydric Soil Indicator Histosol Histic Epi Sulfidic C Aquic Mo Reducing Gleyed or Remarks: Soil pit unn	ce of wetland hydr ne and Phase): (Subgroup): inage Class: Mar izon mar izon fs: pedon dor isture Regime Conditions Low-Chroma Col ecessary (1987 M MINATION	trix Color sell Moist)	(Mu	nsell Moist) Concretions High Organic G Organic Streak Listed on Loca Listed on Natio Other (Explain	Mottle Abundance/ Contrast Contrast Content in Surface Lay cing in Sandy Soils al Hydric Soils List onal Hydric Soils List in Remarks)	s □ No Texture, (Struct ver Sandy Soils	Concretions,
Remarks: No evident SOILS Map Unit Nam (Series) Taxonomy Dra Depth (inches) Hor Hydric Soil Indicator Histosol Histic Epi Sulfidic C Aquic Mo Reducing Gleyed or Remarks: Soil pit unn WETLAND DETER Hydrophytic Vegetation	ce of wetland hydr ne and Phase): (Subgroup): inage Class: Maining C	rology.	(Mu	nsell Moist) Concretions High Organic G Organic Streak Listed on Loca Listed on Natio Other (Explain	Ye Mottle Abundance/ Contrast Content in Surface Lay cing in Sandy Soils al Hydric Soils List onal Hydric Soils List	s □ No Texture, (Struct ver Sandy Soils	Concretions, ture, etc.
Remarks: No evident SOILS Map Unit Nam (Series) Taxonomy Dra Depth (inches) Hor Hydric Soil Indicator Histosol Histic Epi Sulfidic C Aquic Mo Gleyed or Remarks: Soil pit unn WETLAND DETER Hydrophytic Vegetation Wetland Hydrology Pro	ce of wetland hydr ne and Phase): (Subgroup): inage Class: Mai izon Mai izon Mai S: Pedon Mor isture Regime Conditions Low-Chroma Col ecessary (1987 M MINATION on Present? S: Pesent?	trix Color sell Moist)	(Mu	nsell Moist) Concretions High Organic G Organic Streak Listed on Loca Listed on Natio Other (Explain	Mottle Abundance/ Contrast Contrast Content in Surface Lay cing in Sandy Soils al Hydric Soils List onal Hydric Soils List in Remarks)	s □ No Texture, (Struct ver Sandy Soils	Concretions, ture, etc.
Remarks: No evident SOILS Map Unit Nam (Series) Taxonomy Dra Depth (inches) Hor Hydric Soil Indicator Histosol Histic Epi Sulfidic C Aquic Mo Reducing Gleyed or Remarks: Soil pit unn WETLAND DETER Hydrophytic Vegetation	ce of wetland hydr ne and Phase): (Subgroup): inage Class: Mai izon(Mun izon S: pedon dor isture Regime Conditions Low-Chroma Col ecessary (1987 M MINATION on Present? resent?	trix Color sell Moist)	(Mu	nsell Moist) Concretions High Organic G Organic Streak Listed on Loca Listed on Natio Other (Explain	Mottle Abundance/ Contrast Contrast Content in Surface Lay cing in Sandy Soils al Hydric Soils List onal Hydric Soils List in Remarks)	s □ No Texture, (Struct ver Sandy Soils	Concretions, ture, etc.

			/ COE wetlan	ds Delineation Ma			
Field Investigator(s):	Adam Forbes M				Date: 9 September 06	DP No.	: 4
Project/Site:	Piedmont Oak E				State: CA		
Applicant/Owner:	Piedmont Oak E	states LLC		Co	ounty: El Dorado		
Do Normal Circumsta Is the site significantly			1)?	Yes 🛛 No Yes 🗌 No		Seasonal We	tland
Is the site a potential F				Yes No	Plot ID:		
VEGETATION	100101111001 (11						
Dominant Plan		Stratum	Indicator		nant Plant Species	Stratum	Indicator
1. Eleocharis macrost	achya	Н	OBL	5. Lythrum hy	ssopifolium	Н	FACW
2. Muhlenbergia riger	is	Н	FACW	6. Vitis califor	nica	v	FACW
3. Carex sp.(at least F.	ACW)	Н	FACW	7. Rumex cris	ous	Н	FACW-
4. Juncus balticus		Н	OBL				
Percent of Dominant S	Species that are OI	BL, FACW,	or FAC (exc	luding FAC-):	7/7 = 100%		
Remarks:							
HYDROLOGY			Wetl	and Hydrology	Indicators:		
Recorded Data (De	escribe in Remarks	s):	Prim	ary Indicators:	Secondar	y Indicators	
Stream, Lak	ke, or Tide Gauge			nundated	(2 or n	ore required):
Aerial Phote				aturated in uppe		ed root chan	
Other	0 1			2 inches		12 inches	
No Recorded Data	Available		ПМ	Vater marks		soil survey d	ata
Field Observations:				rift lines		Neutral Test	
Depth of Surface W	Vater:	(in.)		ediment deposit		(explain in re	emarks)
Depth of Surface W Depth to Free Wate		(in.)		rainage patterns		-stained leav	
-				rumuge putterm		Staniea ieuv	•••
Depth to Saturated	Soil:	(in.)					
Remarks:							
SOILS Map Unit Nan (Series	ne and Phase): Pla	cer Digging	IS		Field Observations Co	onfirm Mapp	ed Type?
Taxonomy			~			_	
	(Superoup):				🖂 Yes		
Dra	· · · · · ·					🗌 No	
	inage Class:	trix Color	Mo	ttle Colors			Concretions
Depth	inage Class: Ma	trix Color (sell Moist)		ottle Colors nsell Moist)	Mottle Abundance/	Texture, (Concretions, ure. etc.
Depth	inage Class: Ma	trix Color asell Moist)		ottle Colors nsell Moist)		Texture, (Struct	ure, etc.
Depth	inage Class: Ma rizon (Mur		(Mu		Mottle Abundance/ Contrast	Texture, 0	
Depth (inches) Hot	inage Class: Ma rizon (Mur	sell Moist)	(Mu	nsell Moist)	Mottle Abundance/ Contrast Common	Texture, 0	ure, etc. ly Clay
Depth (inches) Hor 0-8	inage Class: Ma rizon (Mur 2	sell Moist)	(Mu	nsell Moist)	Mottle Abundance/ Contrast Common	Texture, 0	ure, etc. ly Clay
Depth (inches) How 0-8 Hydric Soil Indicator	inage Class: Ma rizon (Mur 2	sell Moist)	(Mu	nsell Moist) 5YR 4/6	Mottle Abundance/ Contrast Common	Texture, 0	ure, etc. ly Clay
Depth (inches) Hor 0-8 Hydric Soil Indicator Histosol	inage Class: Ma rizon (Mur 2 rs:	sell Moist)	(Mu	nsell Moist) 5YR 4/6	Mottle Abundance/ Contrast Common Prominent	Texture, (Struct Sanc	ure, etc. ly Clay
Depth (inches) Hor 0-8 Hydric Soil Indicator Histosol Histo Epi	rizon (Mur <u> 1000 (Mur</u> <u> 2000 (Mur</u> 1000 (Mur) 1000 (Mur) 10	sell Moist)	(Mu	nsell Moist) 5YR 4/6 Concretions High Organic	Mottle Abundance/ Contrast Common Prominent Content in Surface Layer	Texture, (Struct Sanc	ure, etc. ly Clay
Depth (inches) Hor 0-8 Hydric Soil Indicator Histosol Histoc Epi Sulfidic C	rizon (Mur Ma (Mur 2 rs: ipedon Ddor	sell Moist)	(Mu	nsell Moist) 5YR 4/6 Concretions High Organic Organic Strea	Mottle Abundance/ Contrast Common Prominent Content in Surface Layer king in Sandy Soils	Texture, (Struct Sanc	ure, etc. ly Clay
Depth (inches) Hor 0-8 Hydric Soil Indicator Histosol Histoc Epi Sulfidic C	rizon (Mur <u> 1000 (Mur</u> <u> 2000 (Mur</u> 1000 (Mur) 1000 (Mur) 10	sell Moist)	(Mu	nsell Moist) 5YR 4/6 Concretions High Organic Organic Strea Listed on Loc	Mottle Abundance/ Contrast Common Prominent Content in Surface Layer king in Sandy Soils al Hydric Soils List	Texture, (Struct Sanc	ure, etc. ly Clay
Depth (inches) Hor 0-8 Hydric Soil Indicator Histosol Histic Epi Sulfidic C Aquic Mo	rizon (Mur Ma (Mur 2 rs: ipedon Ddor	sell Moist)	(Mu	nsell Moist) 5YR 4/6 Concretions High Organic Organic Strea Listed on Loc	Mottle Abundance/ Contrast Common Prominent Content in Surface Layer king in Sandy Soils	Texture, (Struct Sanc	ure, etc. ly Clay
Depth (inches) How 0-8 Hydric Soil Indicator Histosol Histic Ep Sulfidic C Aquic Mo Reducing	rizon (Mur Ma (Mur 2 rs: ipedon Ddor pisture Regime	.5Y 4/1	(Mu	nsell Moist) 5YR 4/6 Concretions High Organic Organic Strea Listed on Loc	Mottle Abundance/ Contrast Common Prominent Content in Surface Layer king in Sandy Soils al Hydric Soils List onal Hydric Soils List	Texture, (Struct Sanc	ure, etc. ly Clay
Depth (inches) How 0-8 Hydric Soil Indicator Histosol Histic Ep Sulfidic C Aquic Mo Reducing	inage Class: Ma rizon (Mur 2 rs: ipedon Ddor bisture Regime Conditions	.5Y 4/1	(Mu	nsell Moist) 5YR 4/6 Concretions High Organic Organic Strea Listed on Loc Listed on Nati	Mottle Abundance/ Contrast Common Prominent Content in Surface Layer king in Sandy Soils al Hydric Soils List onal Hydric Soils List	Texture, (Struct Sanc	ure, etc. ly Clay
Depth (inches) Hor 0-8	inage Class: Ma rizon (Mur 2 rs: ipedon Ddor bisture Regime Conditions r Low-Chroma Co	.5Y 4/1	(Mu	nsell Moist) 5YR 4/6 Concretions High Organic Organic Strea Listed on Loc Listed on Nati	Mottle Abundance/ Contrast Common Prominent Content in Surface Layer king in Sandy Soils al Hydric Soils List onal Hydric Soils List	Texture, (Struct Sanc	ure, etc. ly Clay
Depth (inches) Hor 0-8	inage Class: Ma rizon (Mur 	lors		nsell Moist) 5YR 4/6 Concretions High Organic Organic Strea Listed on Loc Listed on Nati Other (Explain	Mottle Abundance/ Contrast Common Prominent Content in Surface Layer king in Sandy Soils al Hydric Soils List onal Hydric Soils List in Remarks)	Texture, (Struct Sance L	ure, etc. ly Clay
Depth (inches) How 0-8 Hydric Soil Indicator Histosol Histic Ep Sulfidic C Aquic Mo Reducing Gleyed or Remarks: WETLAND DETER Hydrophytic Vegetatio	inage Class: Ma rizon (Mur 2 rs: ipedon Ddor Disture Regime Conditions r Low-Chroma Co MINATION on Present?	isell Moist) .5Y 4/1 lors	(Mu	nsell Moist) 5YR 4/6 Concretions High Organic Organic Strea Listed on Loc Listed on Nati Other (Explain	Mottle Abundance/ Contrast Common Prominent Content in Surface Layer king in Sandy Soils al Hydric Soils List onal Hydric Soils List	Texture, (Struct Sance L	ure, etc. ly Clay
Depth (inches) Hor 0-8	inage Class: Ma rizon (Mur 2 rs: ipedon Ddor Disture Regime Conditions r Low-Chroma Co MINATION on Present?	isell Moist) .5Y 4/1 lors		nsell Moist) 5YR 4/6 Concretions High Organic Organic Strea Listed on Loc Listed on Nati Other (Explain	Mottle Abundance/ Contrast Common Prominent Content in Surface Layer king in Sandy Soils al Hydric Soils List onal Hydric Soils List in Remarks)	Texture, (Struct Sance L	ure, etc. ly Clay oam
Depth (inches) How 0-8 Hydric Soil Indicator Histosol Histic Ep Sulfidic C Aquic Mo Reducing Gleyed or Remarks: WETLAND DETER Hydrophytic Vegetatio	inage Class: Ma rizon (Mur (Mur 2 rs: ipedon Ddor Disture Regime Conditions r Low-Chroma Co MINATION on Present?	isell Moist) .5Y 4/1 lors Yes	(Mu	nsell Moist) 5YR 4/6 Concretions High Organic Organic Strea Listed on Loc Listed on Nati Other (Explain	Mottle Abundance/ Contrast Common Prominent Content in Surface Layer king in Sandy Soils al Hydric Soils List onal Hydric Soils List in Remarks)	Texture, (Struct Sance L	ure, etc. ly Clay oam
Depth (inches) Hor 0-8	minage Class: Ma rizon (Mur (Mur 2 rs: ipedon Odor Disture Regime Conditions r Low-Chroma Co MINATION on Present?	isell Moist) .5Y 4/1 lors	(Mu	nsell Moist) 5YR 4/6 Concretions High Organic Organic Strea Listed on Loc Listed on Nati Other (Explain	Mottle Abundance/ Contrast Common Prominent Content in Surface Layer king in Sandy Soils al Hydric Soils List onal Hydric Soils List in Remarks)	Texture, (Struct Sance L	ure, etc. ly Clay oam

Field Investigator(a);		(190		ds Delineation Man	ual)		
Field Investigator(s):	Adam Forbes M	.S.		D	ate: 9 September 06	DP No.	: 5
Project/Site:	Piedmont Oak E	states		St	ate: CA		
Applicant/Owner: I	Piedmont Oak E	states LLC		Cou	nty: El Dorado		
					J		
Do Normal Circumstanc	es exist on the s	ite?		Yes 🖂 No 🗌	Community ID: U	Jpland	
Is the site significantly d			1)?	Yes No		- prana	
Is the site a potential Pro	· • 1		·	Yes No D			
VEGETATION	Joieni Alea: (II	liceucu, exp	fam below)		I lot ID.		
	Secolog	Stratum	Indicator	Domino	nt Diant Engaine	Stratum	Indicator
Dominant Plant S	species	Stratum	Indicator	Domina	nt Plant Species	Stratum	Indicator
1. Centaurea solstitialis		Н		5. Tragopogon s	sp.	Н	
					7		T. C
2. Bromus diandrus		Н		6. Lolium multif	lorum	Н	FAC
3. Lactuca serriola		Н	FAC	7. Ceanothus cu	neatus var. cuneatus	S	
4. Bromus hordeaceus		Н	FACU-	8. Torilis arvens		Н	
Percent of Dominant Spe	ecies that are Ol	BL, FACW,	or FAC (exc	luding FAC-): 2	/8 = 25%		
Remarks:				0			
HYDROLOGY			Wetl	and Hydrology I	ndicators:		
Recorded Data (Desc	cribe in Remark	s):		ary Indicators:		y Indicators	
	or Tide Gauge			undated		ore required):
Aerial Photog				aturated in upper		ed root chan	
Other				2 inches		12 inches	
No Recorded Data A	vailable			ater marks		soil survey d	ata
Field Observations:				prift lines		Veutral Test	
Depth of Surface Wat	or:	(in.)		ediment deposits		explain in re	emarks)
Depth to Free Water i		(in.)		rainage patterns i		-stained leav	
-		-		rannage parcerns r		Starred real	
Depth to Saturated So		(in.)					
Remarks: No evidence	of wetland hyd	rology.					
SOILS Map Unit Name							
		cer Digging	S		Field Observations Co	nfirm Mappe	ed Type?
Taxonomy (S			·		_	_	
•	age Class:				🖂 Yes	🗌 No	
Depth	age Class.						
Depui	Мо	triv Color	Mo	ttla Calora	Mottle Abundance/	Torturo (Concretions
-		trix Color		ttle Colors	Mottle Abundance/		Concretions,
(inches) Horiz		trix Color isell Moist)		ttle Colors nsell Moist)	Mottle Abundance/ Contrast		Concretions, ure, etc.
-	ion (Mur					Struct	
(inches) Horiz	ion (Mur	sell Moist)				Struct	ure, etc.
(inches) Horiz	<u></u>	sell Moist)				Struct	ure, etc.
(inches) Horiz 0-10 Hydric Soil Indicators:	<u></u>	sell Moist)		nsell Moist)		Struct	ure, etc.
(inches) Horiz 0-10 Hydric Soil Indicators:	<u>con (Mur</u> 7.	sell Moist)		nsell Moist)	Contrast 	Lo	ure, etc.
(inches) Horiz 0-10 Hydric Soil Indicators: Histosol Histic Epipe	con (Mur 7.	sell Moist)		nsell Moist)] Concretions] High Organic C	Contrast ontent in Surface Layer	Lo	ure, etc.
(inches) Horiz 0-10 Hydric Soil Indicators: Histosol Histic Epipe Sulfidic Odd	con (Mur 7. edon or	sell Moist)		nsell Moist)] Concretions] High Organic C] Organic Streaki	Contrast 	Lo	ure, etc.
(inches) Horiz 0-10 Hydric Soil Indicators: Histosol Histic Epipe Sulfidic Ode Aquic Mois	con (Mur 7. edon or ture Regime	sell Moist)		Concretions High Organic C Organic Streaki Listed on Local	Contrast ontent in Surface Layer ng in Sandy Soils Hydric Soils List	Lo	ure, etc.
(inches) Horiz 0-10 Hydric Soil Indicators: Histosol Histic Epipe Sulfidic Ode Aquic Mois Reducing C	edon or ture Regime onditions	sell Moist) 5YR 4/4		Concretions High Organic C Organic Streaki Listed on Local Listed on Nation	Contrast ontent in Surface Layer ng in Sandy Soils Hydric Soils List nal Hydric Soils List	Lo	ure, etc.
(inches) Horiz 0-10 Hydric Soil Indicators: Histosol Histic Epipe Sulfidic Od Aquic Mois Reducing C Gleyed or L	con (Mur 7. edon or ture Regime	sell Moist) 5YR 4/4		Concretions High Organic C Organic Streaki Listed on Local	Contrast ontent in Surface Layer ng in Sandy Soils Hydric Soils List nal Hydric Soils List	Lo	ure, etc.
(inches) Horiz 0-10 Hydric Soil Indicators: Histosol Histic Epipe Sulfidic Ode Aquic Mois Reducing C	edon or ture Regime onditions	sell Moist) 5YR 4/4		Concretions High Organic C Organic Streaki Listed on Local Listed on Nation	Contrast ontent in Surface Layer ng in Sandy Soils Hydric Soils List nal Hydric Soils List	Lo	ure, etc.
(inches) Horiz 0-10 Hydric Soil Indicators: Histosol Histic Epipe Sulfidic Ode Aquic Mois Reducing C Gleyed or L Remarks: Not hydric.	con (Mur 7. edon or ture Regime onditions .ow-Chroma Co	sell Moist) 5YR 4/4		Concretions High Organic C Organic Streaki Listed on Local Listed on Nation	Contrast ontent in Surface Layer ng in Sandy Soils Hydric Soils List nal Hydric Soils List	Lo	ure, etc.
(inches) Horiz	con (Mur 7. edon or ture Regime onditions .ow-Chroma Co	Isell Moist) 5YR 4/4		nsell Moist) Concretions High Organic C Organic Streaki Listed on Local Listed on Nation Other (Explain i	Contrast ontent in Surface Layer ng in Sandy Soils Hydric Soils List nal Hydric Soils List n Remarks)	Sandy Soils	ure, etc.
(inches) Horiz	con (Mur 7. edon or ture Regime onditions .ow-Chroma Co INATION Present? □	isell Moist) 5YR 4/4 lors	(Mu	nsell Moist) Concretions High Organic C Organic Streaki Listed on Local Listed on Nation Other (Explain i	Contrast ontent in Surface Layer ng in Sandy Soils Hydric Soils List nal Hydric Soils List	Sandy Soils	ure, etc.
(inches) Horiz	con (Mur 7. edon or ture Regime onditions .ow-Chroma Co INATION Present?	isell Moist) 5YR 4/4 lors lors Yes X	(Mu	nsell Moist) Concretions High Organic C Organic Streaki Listed on Local Listed on Nation Other (Explain i	Contrast ontent in Surface Layer ng in Sandy Soils Hydric Soils List nal Hydric Soils List n Remarks)	Sandy Soils	ure, etc.
(inches) Horiz	con (Mur 7. edon or ture Regime onditions .ow-Chroma Co INATION Present?	isell Moist) 5YR 4/4 lors	(Mu	nsell Moist) Concretions High Organic C Organic Streaki Listed on Local Listed on Nation Other (Explain i	Contrast ontent in Surface Layer ng in Sandy Soils Hydric Soils List nal Hydric Soils List n Remarks)	Sandy Soils	ure, etc.

		(1987	COE Wetlan	ds Delineation Ma	anual)		
Field Investigator(s):	Adam Forbes M	.S.			Date: 9 September	06 DP No.	.: 6
Project/Site:	Piedmont Oak E	states			State: CA		
Applicant/Owner:	Piedmont Oak E	states LLC		Co	ounty: El Dorado		
Do Normal Circumstan	nces exist on the s	ite?		Yes 🛛 No	Community II	D: Seasonal We	tland
Is the site significantly	disturbed (Atypic	cal Situation)?	Yes 🗌 No	Transect II):	
Is the site a potential P				Yes 🗍 No	Plot II):	
VEGETATION	`		,				
Dominant Plan	t Species	Stratum	Indicator	Domi	nant Plant Species	Stratum	Indicator
1. Cynodon dactylon		Н	FAC	5. Cynosurus	echinatus	Н	
2. Rumex crispus		Н	FACW-	6. Carex sp.(a	t least FACW)	Н	FACW
3. Cyperus eragrostis		Н	FACW	7. Polypogon	monspeliensis	Н	FACW+
4. Eleocharis macrosta	~	Н	OBL	8. Lolium mul		Н	FAC
Percent of Dominant S	pecies that are Ol	BL, FACW,	or FAC (exc	luding FAC-):	7/8 = 88%		
Remarks:							
HYDROLOGY			Wet	and Hydrology	Indicators:		
Recorded Data (De	scribe in Remark	s):		ary Indicators:		ondary Indicators	
Stream, Lak	e, or Tide Gauge	,		nundated		or more required):
Aerial Photo	graphs			aturated in uppe		xidized root chan	
Other	0 1			2 inches		pper 12 inches	
No Recorded Data	Available		U 10	Vater marks		ocal soil survey d	lata
Field Observations:				Prift lines	× F	AC-Neutral Test	
Depth of Surface W	ater:	(in.)	$\boxtimes S$	ediment deposit	s 🗌 O	ther (explain in re	emarks)
Depth to Free Water		(in.)		Prainage patterns	s in wetlands 🛛 🗌 W	Vater-stained leav	ves
Depth to Saturated S		(in.)					
Remarks:	,011.	()					
Actinui ASt							
COLL C Man Linit Man							
SOILS Map Unit Nam (Series		cer Digging	s		Field Observation	ns Confirm Mapp	ed Type?
Taxonomy	· · · · · · · · · · · · · · · · · · ·		5				
					N Y	Yes 🗌 No	
	inage Class:	trix Color	Ma	ottle Colors	Mottle Abundance		Concretions,
Depth (inches) Hor		unx Color (sell Moist)		nsell Moist)	Contrast	,	ture, etc.
(inches) 110		isen wioist)	(1910	liseli woist)	Common	Suuc	luie, elc.
0-8	2	.5Y 4/2		5YR 4/4	Prominent	Sand	y Loam
				_			
Hydric Soil Indicator	A						
Histosol	5:		Г	Concretions			
Histic Epi	nadan		F		Content in Surface L	aver Sandy Soile	
	1		F		king in Sandy Soils	ayer Sandy Sons	
	isture Regime		F		al Hydric Soils List		
	isture Regime				onal Hydric Soils List	.	
	Conditions					st	
	Conditions	lors		Other (Evoluin	n in Remarke)		
Gleyed or	Conditions Low-Chroma Co	lors		Other (Explain	n in Remarks)		
		lors		Other (Explain	n in Remarks)		
Gleyed or Remarks:	Low-Chroma Co						
Gleyed or Remarks: WETLAND DETER Hydrophytic Vegetatio	Low-Chroma Co MINATION on Present?	Yes 🔲 1	No		n in Remarks) ling point within a w	etland? 🛛 Yes	🗌 No
Gleyed or Remarks: WETLAND DETER Hydrophytic Vegetatio Wetland Hydrology Pr	Low-Chroma Co MINATION on Present?	Yes	No			etland? 🛛 Yes	No
Gleyed or Remarks: WETLAND DETER Hydrophytic Vegetatio Wetland Hydrology Pr Hydric Soils Present?	Low-Chroma Co MINATION on Present?	Yes				etland? 🛛 Yes	□ No
Gleyed or Remarks: WETLAND DETER Hydrophytic Vegetatio Wetland Hydrology Pr	Low-Chroma Co MINATION on Present?	Yes	No			etland? 🛛 Yes	🗌 No

			7 COE Wetlan	ds Delineation Ma			
Field Investigator(s):	Adam Forbes M				Date: 9 September 06	DP No.	: 7
Project/Site:	Piedmont Oak E				State: CA		
Applicant/Owner:	Piedmont Oak E	states LLC		Co	unty: El Dorado		
Do Normal Circumsta	nces exist on the s	ite?		Yes 🕅 No	Community ID:	Upland	
Is the site significantly			1)?	Yes No		- F	
Is the site a potential H					\square Plot ID:		
VEGETATION	(
Dominant Plar	nt Species	Stratum	Indicator	Domin	ant Plant Species	Stratum	Indicator
1. Lolium multiflorum		Н	FAC	5. Torilis arver	nsis	Н	
2. Juncus sp. (at least	FACW)	Н	FACW	6. Bromus diar	ıdrus	Н	
3. Cynosurus echinatu	ts	Н		7. Quercus wis	lizenii var. wislizenii	Т	
4. Avena fatua		Н					
Percent of Dominant S	Species that are OI	BL, FACW,	or FAC (exc	luding FAC-):	2/7 = 29%		
Remarks:							
HYDROLOGY				and Hydrology	Indicators:		
Recorded Data (De		s):		ary Indicators:		ry Indicators	
	ke, or Tide Gauge			nundated		nore required	
Aerial Phote	ographs			aturated in upper		ed root chan	nels in
Other				2 inches		12 inches	
No Recorded Data	Available			Vater marks		soil survey d	ata
Field Observations:				Prift lines		Neutral Test	
Depth of Surface W		(in.)		ediment deposits		(explain in re	
Depth to Free Wate	r in Pit:	(in.)		Prainage patterns	in wetlands Water	-stained leav	es
Depth to Saturated		(in.)					
		· /					
Depth to Saturated	secondary indicato	· /					
Depth to Saturated a Remarks: Only one s SOILS Map Unit Nam (Series	secondary indicato ne and Phase): <u>Pla</u>	· /	gs		Field Observations Co	onfirm Mapp	ed Type?
Depth to Saturated a Remarks: Only one s SOILS Map Unit Nan (Series Taxonomy	secondary indicato ne and Phase): <u>Pla</u> (Subgroup):	r present.	<u>zs</u>			onfirm Mapp □ No	ed Type?
Depth to Saturated a Remarks: Only one s SOILS Map Unit Nan (Series Taxonomy Dra	secondary indicato ne and Phase): <u>Pla</u> (Subgroup): inage Class:	r present. cer Digging			Xes Xes	🗌 No	
Depth to Saturated a Remarks: Only one s SOILS Map Unit Nam (Series Taxonomy Dra Depth	secondary indicato ne and Phase): <u>Pla</u> (Subgroup): inage Class: Ma	r present. cer Digging	Мс	ottle Colors	Yes Mottle Abundance/	☐ No Texture, 0	Concretions,
Depth to Saturated a Remarks: Only one s SOILS Map Unit Nam (Series Taxonomy Dra Depth	secondary indicato ne and Phase): <u>Pla</u> (Subgroup): inage Class: Ma	r present. cer Digging	Мс	ottle Colors nsell Moist)	Yes Mottle Abundance/ Contrast	☐ No Texture, 0	
Depth to Saturated a Remarks: Only one s SOILS Map Unit Nam (Series Taxonomy Dra Depth	secondary indicato ne and Phase): <u>Pla</u> (Subgroup): <u></u> inage Class: Ma rizon (Mur	r present. cer Digging	Mc(Mu		Yes Mottle Abundance/	No Texture, C Struct	Concretions,
Depth to Saturated a Remarks: Only one s SOILS Map Unit Nam (Series Taxonomy Dra Depth (inches) Hor	secondary indicato ne and Phase): <u>Pla</u> (Subgroup): <u></u> inage Class: Ma rizon (Mur	r present. cer Digging trix Color usell Moist)	Mc(Mu	nsell Moist)	Mottle Abundance/ Contrast Common	No Texture, C Struct	Concretions, ture, etc.
Depth to Saturated if Remarks: Only one s SOILS Map Unit Nam (Series Taxonomy Dra Depth	secondary indicato ne and Phase): <u>Pla</u> (Subgroup): <u></u> inage Class: Mar rizon (Mur 1(r present. cer Digging trix Color usell Moist)	Mc(Mu	nsell Moist)	Mottle Abundance/ Contrast Common	No Texture, C Struct	Concretions, ture, etc.
Depth to Saturated if Remarks: Only one s SOILS Map Unit Nam (Series Taxonomy Dra Depth	secondary indicato ne and Phase): <u>Pla</u> (Subgroup): <u></u> inage Class: Mar rizon (Mur 1(r present. cer Digging trix Color usell Moist)	Mc(Mu	nsell Moist)	Mottle Abundance/ Contrast Common	No Texture, C Struct	Concretions, ture, etc.
Depth to Saturated if Remarks: Only one s SOILS Map Unit Nam (Series Taxonomy Dra Depth	secondary indicato ne and Phase): <u>Pla</u> (Subgroup): inage Class: Mai rizon (Muri 10 rs:	r present. cer Digging trix Color usell Moist)	Mc(Mu	nsell Moist) .5YR 4/6	Mottle Abundance/ Contrast Common	No Texture, (Struct	Concretions, ture, etc.
Depth to Saturated a Remarks: Only one s SOILS Map Unit Nan (Series Taxonomy Dra Depth (inches) Hor 0-8 Hydric Soil Indicator Histosol Histic Ept Sulfidic C	secondary indicato ne and Phase): Pla (Subgroup): inage Class: Mai rizon (Mun 10 rs: ipedon Ddor	r present. cer Digging trix Color usell Moist)	Mc(Mu	nsell Moist) .5YR 4/6 Concretions High Organic (Organic Streak	∑ Yes Mottle Abundance/ <u>Contrast</u> Common Prominent Content in Surface Layer ing in Sandy Soils	No Texture, (Struct	Concretions, ture, etc.
Depth to Saturated a Remarks: Only one s SOILS Map Unit Nan (Series Taxonomy Dra Depth (inches) Hor 0-8 Hydric Soil Indicator Histosol Histic Ept Sulfidic C	secondary indicato ne and Phase): <u>Pla</u> (Subgroup): inage Class: Mai rizon (Mun 1(rs: ipedon	r present. cer Digging trix Color usell Moist)	Mc(Mu	nsell Moist) .5YR 4/6 Concretions High Organic (Organic Streak Listed on Loca	Ves Mottle Abundance/ <u>Contrast</u> Common Prominent Content in Surface Layer ing in Sandy Soils I Hydric Soils List	No Texture, (Struct	Concretions, ture, etc.
Depth to Saturated A Remarks: Only one set SOILS Map Unit Nam (Series Taxonomy Dra Depth (inches) Hor 0-8 Hydric Soil Indicator Histosol Histosol Gulfidic C Reducing	secondary indicato ne and Phase): Pla (Subgroup): inage Class: Mai rizon (Mun 1(rs: ipedon Ddor pisture Regime Conditions	r present. cer Digging trix Color isell Moist))YR 4/3	Mc(Mu	nsell Moist) .5YR 4/6 Concretions High Organic (Organic Streak Listed on Loca Listed on Natio	Yes Mottle Abundance/ <u>Contrast</u> Common Prominent Content in Surface Layer ting in Sandy Soils I Hydric Soils List onal Hydric Soils List	No Texture, (Struct	Concretions, ture, etc.
Depth to Saturated A Remarks: Only one s SOILS Map Unit Nam (Series Taxonomy Dra Depth (inches) Hor 0-8 Hydric Soil Indicator Histic Ept Sulfidic C Aquic Mo Gleyed on	secondary indicato ne and Phase): <u>Pla</u> (Subgroup): inage Class: Mar rizon (Mur fizon1(rs: ipedon Ddor Disture Regime Conditions t Low-Chroma Co	r present. cer Digging trix Color isell Moist))YR 4/3	Mc(Mu	nsell Moist) .5YR 4/6 Concretions High Organic (Organic Streak Listed on Loca	Yes Mottle Abundance/ <u>Contrast</u> Common Prominent Content in Surface Layer ting in Sandy Soils I Hydric Soils List onal Hydric Soils List	No Texture, (Struct	Concretions, ture, etc.
Depth to Saturated A Remarks: Only one set SOILS Map Unit Nam (Series Taxonomy Dra Depth (inches) Hor 0-8 Hydric Soil Indicator Histosol Histosol Gulfidic C Reducing	secondary indicato ne and Phase): <u>Pla</u> (Subgroup): inage Class: Mar rizon (Mur fizon1(rs: ipedon Ddor Disture Regime Conditions t Low-Chroma Co	r present. cer Digging trix Color isell Moist))YR 4/3	Mc(Mu	nsell Moist) .5YR 4/6 Concretions High Organic (Organic Streak Listed on Loca Listed on Natio	Yes Mottle Abundance/ <u>Contrast</u> Common Prominent Content in Surface Layer ting in Sandy Soils I Hydric Soils List onal Hydric Soils List	No Texture, (Struct	Concretions, ture, etc.
Depth to Saturated A Remarks: Only one s SOILS Map Unit Nam (Series Taxonomy Dra Depth (inches) Hor 0-8 Hydric Soil Indicator Histosol Histic Epi Sulfidic O Aquic Mo Reducing Gleyed on Remarks: Not hydric.	secondary indicato ne and Phase): <u>Pla</u> (Subgroup): inage Class: Main rizon (Murical fixedon (Murical fixedon (Murical fixedon (Murical) fixedon (Mur	r present. cer Digging trix Color isell Moist))YR 4/3	Mc(Mu	nsell Moist) .5YR 4/6 Concretions High Organic (Organic Streak Listed on Loca Listed on Natio	Yes Mottle Abundance/ <u>Contrast</u> Common Prominent Content in Surface Layer ting in Sandy Soils I Hydric Soils List onal Hydric Soils List	No Texture, (Struct	Concretions, ture, etc.
Depth to Saturated A Remarks: Only one s SOILS Map Unit Nam (Series Taxonomy Dra Depth (inches) Hor 0-8 Hydric Soil Indicator Histosol Histic Ept Sulfidic O Aquic Mo Reducing Gleyed on Remarks: Not hydric.	secondary indicato ne and Phase): <u>Pla</u> (Subgroup): inage Class: Mai rizon (Mun 10 rs: ipedon Ddor bisture Regime Conditions : Low-Chroma Col MINATION	r present. cer Digging trix Color (sell Moist) OYR 4/3 lors		nsell Moist) .5YR 4/6 Concretions High Organic 0 Organic Streak Listed on Loca Listed on Natio Other (Explain	∑ Yes Mottle Abundance/ <u>Contrast</u> Common Prominent Content in Surface Layer ing in Sandy Soils l Hydric Soils List onal Hydric Soils List in Remarks)	□ No Texture, (Struct	Concretions, ture, etc.
Depth to Saturated A Remarks: Only one s SOILS Map Unit Nam (Series Taxonomy Dra Depth (inches) Hor 0-8 Hydric Soil Indicator Histic Ept Sulfidic O Aquic Mo Reducing Gleyed or Remarks: Not hydric. WETLAND DETER Hydrophytic Vegetation	secondary indicato ne and Phase): <u>Pla</u> (Subgroup): inage Class: Mai rizon (Mun 10 rs: ipedon Ddor bisture Regime Conditions : Low-Chroma Col MINATION on Present? \	r present. cer Digging trix Color (sell Moist) OYR 4/3 OYR 4/3 lors		nsell Moist) .5YR 4/6 Concretions High Organic 0 Organic Streak Listed on Loca Listed on Natio Other (Explain	Yes Mottle Abundance/ <u>Contrast</u> Common Prominent Content in Surface Layer ting in Sandy Soils I Hydric Soils List onal Hydric Soils List	□ No Texture, (Struct	Concretions, ture, etc. oam
Depth to Saturated A Remarks: Only one s SOILS Map Unit Nam (Series Taxonomy Dra Depth (inches) Hor 0-8 Hydric Soil Indicator Histic Epi Sulfidic O Aquic Mo Reducing Gleyed on Remarks: Not hydric. WETLAND DETER Hydrophytic Vegetatio Wetland Hydrology P	secondary indicato ne and Phase): <u>Pla</u> (Subgroup): inage Class: Mai rizon (Mun rizon1(rs: ipedon Ddor Disture Regime Conditions : Low-Chroma Col MINATION on Present?Y	r present. cer Digging trix Color isell Moist) OYR 4/3 OYR 4/3 lors lors	Mc 2 	nsell Moist) .5YR 4/6 Concretions High Organic 0 Organic Streak Listed on Loca Listed on Natio Other (Explain	∑ Yes Mottle Abundance/ <u>Contrast</u> Common Prominent Content in Surface Layer ing in Sandy Soils l Hydric Soils List onal Hydric Soils List in Remarks)	□ No Texture, (Struct	Concretions, ture, etc.
Depth to Saturated A Remarks: Only one s SOILS Map Unit Nam (Series Taxonomy Dra Depth (inches) Hor 0-8 Hydric Soil Indicator Histic Ept Sulfidic O Aquic Mo Reducing Gleyed or Remarks: Not hydric. WETLAND DETER Hydrophytic Vegetation	secondary indicato ne and Phase): <u>Pla</u> (Subgroup): inage Class: Mai rizon (Mun rizon1(rs: ipedon Odor Disture Regime Conditions t Low-Chroma Col MINATION on Present?Y	r present. cer Digging trix Color (sell Moist) OYR 4/3 OYR 4/3 lors	Mc 2 	nsell Moist) .5YR 4/6 Concretions High Organic 0 Organic Streak Listed on Loca Listed on Natio Other (Explain	∑ Yes Mottle Abundance/ <u>Contrast</u> Common Prominent Content in Surface Layer ing in Sandy Soils l Hydric Soils List onal Hydric Soils List in Remarks)	□ No Texture, (Struct	Concretions, ture, etc.

			7 COE Wetlan	ds Delineation Ma				
Field Investigator(s):	Adam Forbes M				Date: 9 Septer	nber 06	DP No.	: 8
Project/Site:	Piedmont Oak E				State: CA			
Applicant/Owner:	Piedmont Oak E	states LLC		Co	ounty: <u>El Dora</u>	do		
Do Normal Circumstan Is the site significantly			1)?	Yes 🛛 No Yes 🗌 No			easonal Wet	land
Is the site a potential P	roblem Area? (If	needed, exp	lain below)	Yes 🗌 No	Pl Pl	ot ID:		
VEGETATION Dominant Plan	t Species	Stratum	Indicator	Domi	nant Plant Specie	es	Stratum	Indicator
1. Juncus sp. (at least I	FACW)	Н	FACW	5. Cynosurus	echinatus		Н	
2. Juncus bufonius		Н	FACW+	6. Ranunculus	sp. (at least FAC	CW)	Н	FACW
3. Mimulus guttatus		Н	OBL	7. Polypogon	monspeliensis		Н	FACW+
4. Lolium multiflorum		Н	FAC					
Percent of Dominant S Remarks:	pecies that are Ol	BL, FACW,	or FAC (exc	luding FAC-):	6/7 = 86%			
 ☐ Recorded Data (Details (Details	HYDROLOGY W Recorded Data (Describe in Remarks): Pr Stream, Lake, or Tide Gauge				r [(2 or mo Oxidize upper 1 Local so FAC-N	Indicators ore required d root chann 2 inches oil survey da eutral Test explain in re stained leave	nels in ata emarks)
Remarks:								
SOILS Map Unit Nam (Series		cer Digging	<u></u> 5		Field Observ	ations Cor	ıfirm Mappe	ed Type?
•	(Subgroup): inage Class:					🛛 Yes	🗌 No	
Depth	Ma	trix Color sell Moist)		ttle Colors nsell Moist)	Mottle Abune Contras		· · · ·	Concretions, ure, etc.
0-10	2	.5Y 4/2		5YR 5/8	Commo Promine			bam
Hydric Soil Indicator	pedon)dor			Organic Streat	Content in Surfa king in Sandy So al Hydric Soils L	ils .ist	andy Soils	
Reducing	oisture Regime Conditions Low-Chroma Co	lors		Listed on Nati	onal Hydric Soil 1 in Remarks)	s List		
Reducing	Conditions	lors			•	s List		
☐ Reducing ⊠ Gleyed or	Conditions Low-Chroma Co MINATION on Present?	Yes	No No No	Other (Explain	•		? 🛛 Yes	🗌 No

		(198	/ COE Wetlan	ds Delineation Ma	ilual)		
Field Investigator(s):	Adam Forbes M]	Date: 9 September 06	DP No.	: 9
Project/Site:	Piedmont Oak E				State: CA		
Applicant/Owner:	Piedmont Oak E	states LLC		Co	unty: El Dorado		
Do Normal Circumsta	nces exist on the s	ite?		Yes 🛛 No	Community ID: 1	Upland	
Is the site significantly			1)?	Yes No		opiana	
Is the site a potential F					Plot ID:		
VEGETATION							
Dominant Plan	t Species	Stratum	Indicator	Domin	ant Plant Species	Stratum	Indicator
1. Cynosurus echinatu	S	Н		5. Bromus diar	ndrus	Н	
2. Torilis arvensis		Н		6. <i>Trifolium</i> sp	•	Н	
3. Lolium multiflorum		Н	FAC	7. Vicia villosa	ssp. villosa	Н	
4. Toxicodendron dive		S					
Percent of Dominant S	Species that are Ol	BL, FACW,	or FAC (exc	luding FAC-):	1/7 = 14%		
Remarks:							
HYDROLOGY				and Hydrology			
Recorded Data (De		5):		ary Indicators:		y Indicators	
	e, or Tide Gauge			nundated		ore required	
Aerial Photo	ographs			aturated in upper		ed root chan	nels in
Other				2 inches		12 inches	
No Recorded Data	Available			Vater marks		soil survey d	ata
Field Observations:	_			Prift lines		Neutral Test	1 \
Depth of Surface W		(in.)		ediment deposits		(explain in re -stained leav	
Depth to Free Wate		(in.)		rainage patterns		-stamed leav	es
Depth to Saturated		(in.)					
Remarks: Only one s	secondary indicato	r present.					
SOILS Map Unit Nan	ne						
SOILS Map Unit Nam (Series		cer Digging	<u>zs</u>		Field Observations Co	onfirm Mapp	ed Type?
(Series		cer Digging	çs				ed Type?
(Series) Taxonomy	and Phase): Pla	cer Digging	<u>zs</u>		Field Observations Co	onfirm Mapp	ed Type?
(Series) Taxonomy	and Phase): <u>Pla</u> (Subgroup): inage Class:	cer Digging		ttle Colors		🗌 No	ed Type?
(Series Taxonomy Dra Depth	and Phase): Pla (Subgroup): inage Class: Ma		Mo	ottle Colors nsell Moist)	Xes Mottle Abundance/ Contrast	☐ No Texture, 0	
(Series Taxonomy Dra Depth (inches) Hor	and Phase): <u>Pla</u> (Subgroup): inage Class: Ma rizon (Mur	trix Color asell Moist)	Мо (Ми	nsell Moist)	Mottle Abundance/ Contrast Few	No Texture, O Struct	Concretions, aure, etc.
(Series Taxonomy Dra Depth	and Phase): <u>Pla</u> (Subgroup): inage Class: Ma rizon (Mur	trix Color	Мо (Ми		Xes Mottle Abundance/ Contrast	No Texture, O Struct	Concretions,
(Series Taxonomy Dra Depth (inches) Hor 0-8	and Phase): <u>Pla</u> (Subgroup): inage Class: Ma rizon (Mur 1(trix Color asell Moist)	Мо (Ми	nsell Moist)	Mottle Abundance/ Contrast Few	No Texture, O Struct	Concretions, aure, etc.
(Series Taxonomy Dra Depth (inches) Hor 0-8 Hydric Soil Indicator	and Phase): <u>Pla</u> (Subgroup): inage Class: Ma rizon (Mur 1(trix Color asell Moist)	Мо (Ми	nsell Moist) 5YR 4/6	Mottle Abundance/ Contrast Few	No Texture, O Struct	Concretions, aure, etc.
(Series Taxonomy Dra Depth (inches) Hor 0-8 Hydric Soil Indicator Histosol	and Phase): Pla (Subgroup):	trix Color asell Moist)	Мо (Ми	nsell Moist) 5YR 4/6] Concretions	Ves Mottle Abundance/ Contrast Few Prominent	No Texture, (Struct	Concretions, aure, etc.
(Series Taxonomy Dra Depth (inches) Hor 0-8 Hydric Soil Indicator Histosol Histosol	and Phase): Pla (Subgroup):	trix Color asell Moist)	Мо (Ми	nsell Moist) 5YR 4/6] Concretions] High Organic (∑ Yes Mottle Abundance/ <u>Contrast</u> Few Prominent Content in Surface Layer	No Texture, (Struct	Concretions, aure, etc.
(Series Taxonomy Dra Depth (inches) Hor 0-8 Hydric Soil Indicator Histosol Histic Epi Sulfidic C	and Phase): Pla (Subgroup):	trix Color asell Moist)	Мо (Ми	nsell Moist) 5YR 4/6 Concretions High Organic 0 Organic Streak	Ves Mottle Abundance/ Contrast Few Prominent Content in Surface Layer ing in Sandy Soils	No Texture, (Struct	Concretions, aure, etc.
(Series Taxonomy Dra Depth (inches) Hor 0-8 Hydric Soil Indicator Histosol Histic Epi Sulfidic C	and Phase): Pla (Subgroup):	trix Color asell Moist)	Мо (Ми	nsell Moist) 5YR 4/6 Concretions High Organic (Organic Streak Listed on Loca	Ves Mottle Abundance/ Contrast Few Prominent Content in Surface Layer ing in Sandy Soils Hydric Soils List	No Texture, (Struct	Concretions, aure, etc.
(Series Taxonomy Dra Depth (inches) Hor 0-8 Hydric Soil Indicator Histosol Histosol Sulfidic C Aquic Mo	and Phase): Pla (Subgroup):	trix Color asell Moist))YR 4/4	Мо (Ми	nsell Moist) 5YR 4/6 Concretions High Organic (Organic Streak Listed on Loca Listed on Natio	✓ Yes Mottle Abundance/ Contrast Few Prominent	No Texture, (Struct	Concretions, aure, etc.
(Series Taxonomy Dra Depth (inches) Hor 0-8 Hydric Soil Indicator Histosol Histosol Sulfidic C Aquic Mo	and Phase): <u>Pla</u> (Subgroup): inage Class: Ma rizon (Mur 1(trix Color asell Moist))YR 4/4	Мо (Ми	nsell Moist) 5YR 4/6 Concretions High Organic (Organic Streak Listed on Loca	✓ Yes Mottle Abundance/ Contrast Few Prominent	No Texture, (Struct	Concretions, aure, etc.
(Series Taxonomy Dra Depth (inches) Hor 0-8 Hydric Soil Indicator Histosol Histic Epi Sulfidic C Aquic Mo Reducing Gleyed or Remarks: Not hydric.	and Phase): Pla (Subgroup):	trix Color asell Moist))YR 4/4	Мо (Ми	nsell Moist) 5YR 4/6 Concretions High Organic (Organic Streak Listed on Loca Listed on Natio	✓ Yes Mottle Abundance/ Contrast Few Prominent	No Texture, (Struct	Concretions, aure, etc.
(Series Taxonomy Dra Depth (inches) Hor 0-8 Hydric Soil Indicator Histosol Histic Epi Sulfidic O Reducing Gleyed or Remarks: Not hydric.	and Phase): Pla (Subgroup):	trix Color asell Moist))YR 4/4		nsell Moist) 5YR 4/6 Concretions High Organic 0 Organic Streak Listed on Loca Listed on Natio Other (Explain	✓ Yes Mottle Abundance/ Contrast Few Prominent	☐ No Texture, (Struct Sandy Sandy Soils	Concretions, ure, etc. y Loam
(Series Taxonomy Dra Depth (inches) Hor 0-8 Hydric Soil Indicator Histosol Histic Epi Sulfidic C Aquic Mo Reducing Gleyed or Remarks: Not hydric. WETLAND DETER Hydrophytic Vegetatio	and Phase): Pla (Subgroup):	trix Color asell Moist))YR 4/4	 	nsell Moist) 5YR 4/6 Concretions High Organic 0 Organic Streak Listed on Loca Listed on Natio Other (Explain	✓ Yes Mottle Abundance/ Contrast Few Prominent	☐ No Texture, (Struct Sandy Sandy Soils	Concretions, aure, etc.
(Series Taxonomy Dra Depth (inches) Hor 0-8 Hydric Soil Indicator Histosol Histic Epi Sulfidic C Aquic Mo Reducing Gleyed or Remarks: Not hydric. WETLAND DETER Hydrophytic Vegetatio Wetland Hydrology Pro	and Phase): Pla (Subgroup):	trix Color Isell Moist) IYR 4/4	Mo 	nsell Moist) 5YR 4/6 Concretions High Organic 0 Organic Streak Listed on Loca Listed on Natio Other (Explain	✓ Yes Mottle Abundance/ Contrast Few Prominent	☐ No Texture, (Struct Sandy Sandy Soils	Concretions, ure, etc. y Loam
(Series Taxonomy Dra Depth (inches) Hor 0-8 Hydric Soil Indicator Histosol Histic Epi Sulfidic C Aquic Mo Reducing Gleyed or Remarks: Not hydric. WETLAND DETER Hydrophytic Vegetatio	and Phase): Pla (Subgroup):	trix Color Isell Moist) IYR 4/4	Mo 	nsell Moist) 5YR 4/6 Concretions High Organic 0 Organic Streak Listed on Loca Listed on Natio Other (Explain	✓ Yes Mottle Abundance/ Contrast Few Prominent	☐ No Texture, (Struct Sandy Sandy Soils	Concretions, ure, etc. y Loam

			7 COE Wetlan	ds Delineation Man	ual)		
Field Investigator(s):	Adam Forbes M	.S.		D	ate: 9 September 06	DP No.	: 10
Project/Site:	Piedmont Oak E	states		S	ate: CA		
Applicant/Owner:	Piedmont Oak E	states LLC		Cou	nty: El Dorado		
Do Normal Circumstan	nces exist on the s	ite?		Yes 🛛 No 🗌	Community ID:	Seasonal We	tland
Is the site significantly	disturbed (Atypic	cal Situatior	n)?	Yes 🗌 No 🛛	Transect ID:		
Is the site a potential P	roblem Area? (If	needed, exp	lain below)	Yes 🗌 No 🕻	Plot ID:		
VEGETATION		Î					
Dominant Plan	t Species	Stratum	Indicator	Domina	nt Plant Species	Stratum	Indicator
1. Rubus discolor		Н	FACW	5. Toxicodendro	on diversilobum	S	
2. Artemisia douglasia	na	Н	FACW	6. Juncus baltic	us	Н	OBL
3. <i>Carex</i> sp.(at least FA	ACW)	Н	FACW	7. <i>Salix</i> sp. (at 1	east FACW)	Н	FACW
4. Mentha sp.		Н	FAC	8. Rumex congl	omeratus	Н	FACW
Percent of Dominant S	pecies that are OI	BL, FACW,	or FAC (exc	luding FAC-): 7	/8 = 88%		
Remarks:				C ,			
HYDROLOGY			Wetl	and Hydrology l	ndicators:		
Recorded Data (De	scribe in Remarks	s):		ary Indicators:		ry Indicators	
	e, or Tide Gauge			undated		nore required):
Aerial Photo				aturated in upper		zed root chan	
Other	Shuping			2 inches		12 inches	
No Recorded Data	Available			Vater marks		soil survey d	ata
Field Observations:				rift lines		Neutral Test	
Depth of Surface W	ater:	(in.)		ediment deposits		(explain in re	emarks)
-		(in.)		rainage patterns i		r-stained leav	
				ramage parterno i			
Depth to Free Water		,			_		
Depth to Saturated S		(in.)					
-		,					
Depth to Saturated S Remarks:	Soil:	,					
Depth to Saturated S Remarks: SOILS Map Unit Nam	Soil:	(in.)	75		Field Observations C		ed Type?
Depth to Saturated S Remarks: SOILS Map Unit Nam (Series	Soil: ne and Phase): <u>Pla</u>	,	55		Field Observations C	onfirm Mapp	ed Type?
Depth to Saturated S Remarks: SOILS Map Unit Nam (Series Taxonomy of	Soil: ne and Phase): <u>Pla</u> (Subgroup):	(in.)	28				ed Type?
Depth to Saturated S Remarks: SOILS Map Unit Nam (Series Taxonomy (Drai	Soil: ne and Phase): <u>Pla</u> (Subgroup): inage Class:	(in.)		ttle Colore	Field Observations C	onfirm Mapp	
Depth to Saturated S Remarks: SOILS Map Unit Nam (Series Taxonomy of Drai Depth	Soil: ne and Phase): <u>Pla</u> (Subgroup): inage Class: Mat	(in.) cer Digging	Мо	ttle Colors	Field Observations C X Yes Mottle Abundance/	onfirm Mapp D No Texture, 0	Concretions,
Depth to Saturated S Remarks: SOILS Map Unit Nam (Series Taxonomy of Drai Depth	Soil: ne and Phase): <u>Pla</u> (Subgroup): inage Class: Mat	(in.)	Мо	ottle Colors nsell Moist)	Field Observations C Yes Mottle Abundance/ Contrast	onfirm Mapp D No Texture, 0	
Depth to Saturated S Remarks: SOILS Map Unit Nam (Series Taxonomy of Drai Depth	Soil: ne and Phase): <u>Pla</u> (Subgroup): inage Class: Mat izon (Mun	(in.) cer Digging	Mo (Mu		Field Observations C X Yes Mottle Abundance/	onfirm Mappo D No Texture, C Struct	Concretions,
Depth to Saturated S Remarks: SOILS Map Unit Nam (Series Taxonomy (Drai Depth (inches) Hor	Soil: ne and Phase): <u>Pla</u> (Subgroup): inage Class: Mat izon (Mun	(in.) cer Digging trix Color trix Color tsell Moist)	Mo (Mu	nsell Moist)	Field Observations C Yes Mottle Abundance/ <u>Contrast</u> Few	onfirm Mappo D No Texture, C Struct	Concretions, ture, etc.
Depth to Saturated S Remarks: SOILS Map Unit Nam (Series Taxonomy 0 Drai Depth 0epth 0-10	Soil: ne and Phase): Pla (Subgroup): inage Class: Mat izon (Mun 1((in.) cer Digging trix Color trix Color tsell Moist)	Mo (Mu	nsell Moist)	Field Observations C Yes Mottle Abundance/ Contrast Few	onfirm Mappo D No Texture, C Struct	Concretions, ture, etc.
Depth to Saturated S Remarks: SOILS Map Unit Nam (Series Taxonomy (Drai Depth (inches) Hor 0-10 Hydric Soil Indicator	Soil: ne and Phase): Pla (Subgroup): inage Class: Mat izon (Mun 1((in.) cer Digging trix Color trix Color tsell Moist)	Mo (Mu	nsell Moist)	Field Observations C Yes Mottle Abundance/ Contrast Few	onfirm Mappo D No Texture, C Struct	Concretions, ture, etc.
Depth to Saturated S Remarks: SOILS Map Unit Nam (Series) Taxonomy (Drai Depth (inches) Hor 0-10 Hydric Soil Indicator Histosol	Soil: ne and Phase): <u>Pla</u> (Subgroup): inage Class: Mat izon (Mun 10	(in.) cer Digging trix Color trix Color tsell Moist)	Mo (Mu		Field Observations C Xes Mottle Abundance/ Contrast Few Prominent	onfirm Mapp No Texture, C Struct Loam (o	Concretions, ture, etc.
Depth to Saturated S Remarks: SOILS Map Unit Nam (Series) Taxonomy (Drai Depth (inches) Hor 0-10 Hydric Soil Indicator Histosol Histic Epi	Soil: ne and Phase): <u>Pla</u> (Subgroup): inage Class: Mat izon (Mun 10 s: pedon	(in.) cer Digging trix Color trix Color tsell Moist)	Mo (Mu	nsell Moist) .5YR 5/6 Concretions High Organic C	Field Observations C Yes Mottle Abundance/ Contrast Few Prominent ontent in Surface Layer	onfirm Mapp No Texture, C Struct Loam (o	Concretions, ture, etc.
Depth to Saturated S Remarks: SOILS Map Unit Nam (Series) Taxonomy (Drai Depth (inches) Hor 0-10 Hydric Soil Indicator Histosol Histic Epi Sulfidic O	Soil: ne and Phase): <u>Pla</u> (Subgroup): inage Class: Mat izon (Mun izon 10 s: pedon idor	(in.) cer Digging trix Color trix Color tsell Moist)	Mo (Mu	nsell Moist) .5YR 5/6 Concretions High Organic C Organic Streaki	Field Observations C Yes Mottle Abundance/ Contrast Few Prominent ontent in Surface Layer ng in Sandy Soils	onfirm Mapp No Texture, C Struct Loam (o	Concretions, ture, etc.
Depth to Saturated S Remarks: SOILS Map Unit Nam (Series Taxonomy (Drai Depth (inches) Hor 0-10 Hydric Soil Indicator Histosol Histic Epi Sulfidic O Aquic Mo	Soil: ne and Phase): <u>Pla</u> (Subgroup): inage Class: Mat izon (Mun 10 s: pedon dor isture Regime	(in.) cer Digging trix Color trix Color tsell Moist)	Mo (Mu	nsell Moist) .5YR 5/6 Concretions High Organic C Organic Streaki Listed on Local	Field Observations C Yes Mottle Abundance/ <u>Contrast</u> Few Prominent ontent in Surface Layer ng in Sandy Soils Hydric Soils List	onfirm Mapp No Texture, C Struct Loam (o	Concretions, ture, etc.
Depth to Saturated S Remarks: SOILS Map Unit Nam (Series Taxonomy (Drai Depth (inches) Depth (inches) 0-10 0-10 Hydric Soil Indicator Histosol Histic Epi Sulfidic O Aquic Mo Reducing	Soil: ne and Phase): Pla (Subgroup): inage Class: Mat izon (Mun izon1(s: pedon dor isture Regime Conditions	(in.) cer Digging trix Color isell Moist))YR 4/2	Mo (Mu	<u>.5YR 5/6</u> Concretions High Organic C Organic Streaki Listed on Local Listed on Natio	Field Observations C Yes Mottle Abundance/ <u>Contrast</u> Few Prominent ontent in Surface Layer ng in Sandy Soils Hydric Soils List nal Hydric Soils List	onfirm Mapp No Texture, C Struct Loam (o	Concretions, ture, etc.
Depth to Saturated S Remarks: SOILS Map Unit Nam (Series Taxonomy (Drai Depth 0-10 0-10 Hydric Soil Indicator Histosol Histic Epi Sulfidic O Aquic Mo Reducing Gleyed or	Soil: ne and Phase): <u>Pla</u> (Subgroup): inage Class: Mat izon (Mun 10 s: pedon dor isture Regime	(in.) cer Digging trix Color isell Moist))YR 4/2	Mo (Mu	nsell Moist) .5YR 5/6 Concretions High Organic C Organic Streaki Listed on Local	Field Observations C Yes Mottle Abundance/ <u>Contrast</u> Few Prominent ontent in Surface Layer ng in Sandy Soils Hydric Soils List nal Hydric Soils List	onfirm Mapp No Texture, C Struct Loam (o	Concretions, ture, etc.
Depth to Saturated S Remarks: SOILS Map Unit Nam (Series Taxonomy (Drai Depth (inches) Depth (inches) 0-10 0-10 Hydric Soil Indicator Histosol Histic Epi Sulfidic O Aquic Mo Reducing	Soil: ne and Phase): Pla (Subgroup): inage Class: Mat izon (Mun izon1(s: pedon dor isture Regime Conditions	(in.) cer Digging trix Color isell Moist))YR 4/2	Mo (Mu	<u>.5YR 5/6</u> Concretions High Organic C Organic Streaki Listed on Local Listed on Natio	Field Observations C Yes Mottle Abundance/ <u>Contrast</u> Few Prominent ontent in Surface Layer ng in Sandy Soils Hydric Soils List nal Hydric Soils List	onfirm Mapp No Texture, C Struct Loam (o	Concretions, ture, etc.
Depth to Saturated S Remarks: SOILS Map Unit Nam (Series) Taxonomy (Series) Taxonomy (Series) Depth (inches) Hor 0-10 Hydric Soil Indicator Histosol Histic Epi Sulfidic O Aquic Mo Reducing Gleyed or Remarks:	Soil: ne and Phase): <u>Pla</u> (Subgroup): inage Class: Mat izon (Mun izon1(s: pedon dor isture Regime Conditions Low-Chroma Col	(in.) cer Digging trix Color isell Moist))YR 4/2	Mo (Mu	<u>.5YR 5/6</u> Concretions High Organic C Organic Streaki Listed on Local Listed on Natio	Field Observations C Yes Mottle Abundance/ <u>Contrast</u> Few Prominent ontent in Surface Layer ng in Sandy Soils Hydric Soils List nal Hydric Soils List	onfirm Mapp No Texture, C Struct Loam (o	Concretions, ture, etc.
Depth to Saturated S Remarks: SOILS Map Unit Nam (Series) Taxonomy (Drail Depth (inches) Hor 0-10 Hydric Soil Indicator Histosol Histic Epi Sulfidic O Aquic Mo Reducing ⊠ Gleyed or Remarks:	Soil: ne and Phase): <u>Pla</u> (Subgroup): inage Class: Mating (Mun iston (Mun 10 s: pedon dor isture Regime Conditions Low-Chroma Col MINATION	(in.) cer Digging trix Color isell Moist))YR 4/2	 	nsell Moist) .5YR 5/6 Concretions High Organic C Organic Streaki Listed on Local Listed on Natio Other (Explain	Field Observations C ∑ Yes Mottle Abundance/ <u>Contrast</u> Few Prominent ontent in Surface Layer ng in Sandy Soils Hydric Soils List nal Hydric Soils List n Remarks)	onfirm Mappo No Texture, (Struct Loam (o	Concretions, ture, etc. over sand)
Depth to Saturated S Remarks: SOILS Map Unit Nam (Series) Taxonomy (Drail Depth (inches) Hor 0-10 Hydric Soil Indicator Histosol Histic Epi Sulfidic O Aquic Mo Reducing ⊠ Gleyed or Remarks:	Soil: ne and Phase): <u>Pla</u> (Subgroup): inage Class: Mai izon (Mun izon1(s: pedon dor isture Regime Conditions Low-Chroma Col MINATION on Present? \vee V	(in.) cer Digging trix Color sell Moist) OYR 4/2 lors lors	 	nsell Moist) .5YR 5/6 Concretions High Organic C Organic Streaki Listed on Local Listed on Natio Other (Explain	Field Observations C Yes Mottle Abundance/ <u>Contrast</u> Few Prominent ontent in Surface Layer ng in Sandy Soils Hydric Soils List nal Hydric Soils List	onfirm Mappo No Texture, (Struct Loam (o	Concretions, ture, etc.
Depth to Saturated S Remarks: SOILS Map Unit Nam (Series) Taxonomy (Drail Depth (inches) Hor 0-10 0-10 Hydric Soil Indicator Histosol Histic Epi Sulfidic O Aquic Mo Reducing Gleyed or Remarks:	Soil: ne and Phase): <u>Pla</u> (Subgroup): inage Class: Mating Class:	(in.) cer Digging trix Color trix Color (sell Moist))YR 4/2 lors	Mo 7 7 	nsell Moist) .5YR 5/6 Concretions High Organic C Organic Streaki Listed on Local Listed on Natio Other (Explain	Field Observations C ∑ Yes Mottle Abundance/ <u>Contrast</u> Few Prominent ontent in Surface Layer ng in Sandy Soils Hydric Soils List nal Hydric Soils List n Remarks)	onfirm Mappo No Texture, (Struct Loam (o	Concretions, ture, etc. over sand)
Depth to Saturated S Remarks: SOILS Map Unit Nam (Series) Taxonomy (Drail Depth (inches) Hor 0-10 Hydric Soil Indicator Histosol Histic Epi Sulfidic O Aquic Mo Reducing ⊠ Gleyed or Remarks:	Soil: and Phase): Pla (Subgroup): inage Class: Man izon (Mun izon 10 S: pedon dor isture Regime Conditions Low-Chroma Col MINATION on Present? X Y esent? X Y X Y	(in.) cer Digging trix Color trix Color (sell Moist))YR 4/2 lors	 	nsell Moist) .5YR 5/6 Concretions High Organic C Organic Streaki Listed on Local Listed on Natio Other (Explain	Field Observations C ∑ Yes Mottle Abundance/ <u>Contrast</u> Few Prominent ontent in Surface Layer ng in Sandy Soils Hydric Soils List nal Hydric Soils List n Remarks)	onfirm Mappo No Texture, (Struct Loam (o	Concretions, ture, etc. over sand)

			7 COE Wetland	ds Delineation	Manual)			
Field Investigator(s):	Adam Forbes M				Date:	9 September 06	DP No.	: 11
Project/Site:	Piedmont Oak E				State:	CA		
Applicant/Owner:	Piedmont Oak E	states LLC			County:	El Dorado		
Do Normal Circumsta Is the site significantly Is the site a potential F	disturbed (Atypic	cal Situation		Yes 🗌 N	No □ No ⊠ No ⊠	Community ID: <u>U</u> Transect ID: Plot ID:	pland	
VEGETATION	Toblem Area: (II	liccucu, cx ₁				TIOUID.		
Dominant Plan	nt Species	Stratum	Indicator	Doi	minant Pl	ant Species	Stratum	Indicator
1. Cynosurus echinatu	lS	Н		5. Torilis at	rvensis		Н	
2. Toxicodendron dive	ersilobum	S		6. Quercus	wislizeni	i var. wislizenii	Т	
3. Elymus glaucus		Н		7. Bromus d	diandrus		Н	
4. Pinus sabiniana		Т						
Percent of Dominant S	Species that are OI	BL, FACW	, or FAC (exc	luding FAC-): $0/7 = 0$	0%		
Remarks:								
					T 11			
Aerial Photo Other No Recorded Data Field Observations: Depth of Surface W Depth to Free Wate Depth to Saturated S	Available Vater: r in Pit: Soil:	(in.) (in.) (in.)	Prima Ir Sa 1 W D Sa Sa Sa Sa Sa Sa Sa Sa Sa Sa	and Hydrold ary Indicators nundated aturated in up 2 inches Vater marks vift lines ediment depo rrainage patte	s: opper osits	Secondary (2 or mo Oxidized upper 1 Local so FAC-No Other (e	Indicators ore required d root chans 2 inches oil survey d eutral Test explain in re stained leav	nels in ata emarks)
Remarks: No eviden	ce of wetland hyd	rology.						
SOILS Map Unit Nam (Series		amond Sprin 5 15% slope	ngs very fine es	sandy loam	Fie	eld Observations Con	ıfirm Mapp	ed Type?
•	(Subgroup):					Yes	🖂 No	
	inage Class:							~ .
Depth (inches) Hor		trix Color isell Moist)		ttle Colors nsell Moist)	Mo	ttle Abundance/ Contrast		Concretions, ture, etc.
0-8	7.:	5YR 4/4		NA			L	oam
Reducing	ipedon	lors		Organic Str	nic Conten eaking in ocal Hyd lational H	nt in Surface Layer S Sandy Soils ric Soils List Iydric Soils List marks)	andy Soils	
Remarks: Not hydric.			L					
WETLAND DETER Hydrophytic Vegetatid Wetland Hydrology Pr Hydric Soils Present? Remarks/Rationale: C	on Present?	Yes ⊠ Yes ⊠ Yes ⊠	No	Is this sa	mpling po	Dint within a wetland	? 🗌 Yes	🛛 No
1								

			7 COE Wetlan	ds Delineation Manua			
Field Investigator(s):	Adam Forbes M			Da		DP No.	: 12
Project/Site:	Piedmont Oak E			Sta			
Applicant/Owner:	Piedmont Oak E	states LLC		Coun	y: El Dorado		
Do Normal Circumsta				Yes 🛛 No 🗌	Community ID: _U	Ipland	
Is the site significantly				Yes No 🛛	Transect ID:		
Is the site a potential F VEGETATION	roblem Area? (If	needed, exp	olain below)	Yes 🗌 No 🔀	Plot ID:		
Dominant Plan	nt Species	Stratum	Indicator	Dominan	Plant Species	Stratum	Indicator
1. Elymus glaucus		Н	FACU	5. Toxicodendron	diversilobum	S	
2. Cynosurus echinatu	lS	Н		6. Heteromeles an	butifolia	S	
3. Bromus hordeaceus		Н	FACU-	7. Torilis arvensi.		Н	
4. Aesculus californica	a	Т					
Percent of Dominant S	Species that are OI	BL, FACW,	or FAC (exc	luding FAC-): 0/7	= 0%		
Remarks:							
			· · · ·				
HYDROLOGY				and Hydrology In			
Recorded Data (De		s):		ary Indicators:		/ Indicators	
	te, or Tide Gauge			undated		ore required	
Aerial Photo	ographs			aturated in upper		ed root chan	nels in
Other				2 inches		12 inches	
No Recorded Data Available				/ater marks rift lines		oil survey d	ata
	T .	<i>(</i> ·)				eutral Test	montra)
Depth of Surface Water: (in.) Depth to Free Water in Pit: (in.)				ediment deposits rainage patterns in		explain in re stained leav	
_				ramage patterns m		stanicu icav	65
Depth to Saturated		(in.)					
Remarks: Data point	is old ditch dug ii	n upland. O	only one second	ndary indicator pres	ent.		
Remarks: Data point is old ditch dug in upland. Only one secondary indicator prese							
SOILS Map Unit Name Diamond Springs very fine sandy loam							
	ne Dia and Phase): 9 to			sandy loam	Field Observations Co	nfirm Mapp	ed Type?
(Series				sandy loam	_	11	ed Type?
(Series) Taxonomy	and Phase): 9 to (Subgroup):			sandy loam	Field Observations Con	nfirm Mapp	ed Type?
(Series) Taxonomy	and Phase): <u>9 to</u> (Subgroup): inage Class:		28		_	No No	ed Type?
(Series Taxonomy Dra Depth	and Phase): 9 to (Subgroup): inage Class: Ma	o 15% slope	Mo		Yes	No Texture, C	
(Series Taxonomy Dra Depth	and Phase): 9 to (Subgroup): inage Class: Ma rizon(Mur	o 15% slope trix Color	Mo	ttle Colors	Yes Yottle Abundance/	No Texture, (Struct	Concretions,
(Series Taxonomy Dra Depth (inches) Hor 0-8	and Phase): 9 to (Subgroup): inage Class: Ma rizon(Mur	o 15% slope trix Color ssell Moist)	Mo	ttle Colors	Yes Yottle Abundance/	No Texture, (Struct	Concretions, ure, etc.
(Series Taxonomy Dra Depth (inches) Hor 0-8 Hydric Soil Indicator	and Phase): 9 to (Subgroup): inage Class: Ma rizon(Mur	o 15% slope trix Color ssell Moist)	Mo	ttle Colors	Yes Yottle Abundance/	No Texture, (Struct	Concretions, ure, etc.
(Series Taxonomy Dra Depth (inches) Hor 0-8 Hydric Soil Indicator Histosol	and Phase): 9 to (Subgroup):	o 15% slope trix Color ssell Moist)	Mo	ttle Colors	Yes Mottle Abundance/ Contrast	No Texture, (Struct	Concretions, ure, etc.
(Series Taxonomy Dra Depth (inches) Hor 0-8 Hydric Soil Indicator Histosol Histosol	and Phase): 9 to (Subgroup):	o 15% slope trix Color ssell Moist)	Mo	ttle Colors	Yes Mottle Abundance/ Contrast tent in Surface Layer S	No Texture, (Struct	Concretions, ure, etc.
(Series Taxonomy Dra Depth (inches) Hor 0-8 Hydric Soil Indicator Histosol Histic Epi Sulfidic C	and Phase): 9 to (Subgroup):	o 15% slope trix Color ssell Moist)	Mo	ttle Colors	Yes Mottle Abundance/ Contrast tent in Surface Layer S in Sandy Soils	No Texture, (Struct	Concretions, ure, etc.
(Series Taxonomy Dra Depth (inches) Hor 0-8 Hydric Soil Indicator Histosol Histosol Sulfidic C	and Phase): 9 to (Subgroup):	o 15% slope trix Color ssell Moist)	Mo	ttle Colors	Yes Mottle Abundance/ Contrast ntent in Surface Layer S in Sandy Soils ydric Soils List	No Texture, (Struct	Concretions, ure, etc.
(Series Taxonomy Dra Depth (inches) Hor 0-8 Hydric Soil Indicator Histosol Histosol Sulfidic C Aquic Mo	and Phase): 9 to (Subgroup):	o 15% slope trix Color asell Moist))YR 4/6	Mo	ttle Colors nsell Moist) 	Yes Mottle Abundance/ Contrast tent in Surface Layer S in Sandy Soils ydric Soils List Hydric Soils List	No Texture, (Struct	Concretions, ure, etc.
(Series Taxonomy Dra Depth (inches) Hor 0-8 Hydric Soil Indicator Histosol Histic Epi Sulfidic C Aquic Mo Reducing Gleyed or	and Phase): 9 tr (Subgroup): inage Class: Ma rizon (Mur 1(o 15% slope trix Color asell Moist))YR 4/6	Mo	ttle Colors	Yes Mottle Abundance/ Contrast tent in Surface Layer S in Sandy Soils ydric Soils List Hydric Soils List	No Texture, (Struct	Concretions, ure, etc.
(Series Taxonomy Dra Depth (inches) Hor 0-8 Hydric Soil Indicator Histosol Histosol Sulfidic C Aquic Mo	and Phase): 9 tr (Subgroup): inage Class: Ma rizon (Mur 1(o 15% slope trix Color asell Moist))YR 4/6	Mo	ttle Colors nsell Moist) 	Yes Mottle Abundance/ Contrast tent in Surface Layer S in Sandy Soils ydric Soils List Hydric Soils List	No Texture, (Struct	Concretions, ure, etc.
(Series Taxonomy Dra Depth (inches) Hor 0-8 Hydric Soil Indicator Histosol Histic Epi Sulfidic C Aquic Mo Reducing Gleyed or	and Phase): 9 to (Subgroup):	o 15% slope trix Color asell Moist))YR 4/6	Mo	ttle Colors nsell Moist) 	Yes Mottle Abundance/ Contrast tent in Surface Layer S in Sandy Soils ydric Soils List Hydric Soils List	No Texture, (Struct	Concretions, ure, etc.
(Series Taxonomy Dra Depth (inches) Hor 0-8 Hydric Soil Indicator Histosol Histic Epi Sulfidic O Reducing Gleyed or Remarks: Not hydric.	and Phase): 9 to (Subgroup):	o 15% slope trix Color isell Moist) OYR 4/6		ttle Colors nsell Moist) Concretions High Organic Con Organic Streaking Listed on Local H Listed on Nationa Other (Explain in	Yes Mottle Abundance/ Contrast tent in Surface Layer S in Sandy Soils ydric Soils List I Hydric Soils List Remarks)	No Texture, (Struct L	Concretions, ure, etc.
(Series Taxonomy Dra Depth (inches) Hor 0-8 Hydric Soil Indicator Histosol Histic Epi Sulfidic C Aquic Mo Gleyed or Remarks: Not hydric.	and Phase): 9 to (Subgroup):	b 15% slope trix Color isell Moist))YR 4/6	Mo (Mu 	ttle Colors nsell Moist) Concretions High Organic Con Organic Streaking Listed on Local H Listed on Nationa Other (Explain in	Yes Mottle Abundance/ Contrast tent in Surface Layer S in Sandy Soils ydric Soils List Hydric Soils List	No Texture, (Struct L	Concretions, aure, etc.
(Series Taxonomy Dra Depth (inches) Hor 0-8 Hydric Soil Indicator Histosol Histic Epi Sulfidic C Aquic Mo Reducing Gleyed or Remarks: Not hydric.	and Phase): 9 to (Subgroup):	o 15% slope trix Color isell Moist) OYR 4/6	Mo (Mu 	ttle Colors nsell Moist) Concretions High Organic Con Organic Streaking Listed on Local H Listed on Nationa Other (Explain in	Yes Mottle Abundance/ Contrast tent in Surface Layer S in Sandy Soils ydric Soils List I Hydric Soils List Remarks)	No Texture, (Struct L	Concretions, aure, etc.
(Series) Taxonomy Dra Depth (inches) Hor 0-8 Hydric Soil Indicator Histosol Histic Epi Sulfidic C Aquic Ma Gleyed or Remarks: Not hydric. WETLAND DETER Hydrophytic Vegetatia Wetland Hydrology Pr	and Phase): 9 to (Subgroup):	o 15% slope trix Color isell Moist) OYR 4/6 OYR 4/6	Mo (Mu 	ttle Colors nsell Moist) Concretions High Organic Con Organic Streaking Listed on Local H Listed on Nationa Other (Explain in	Yes Mottle Abundance/ Contrast tent in Surface Layer S in Sandy Soils ydric Soils List I Hydric Soils List Remarks)	No Texture, (Struct L	Concretions, aure, etc.

Field Investigator(s):	Adam Forbes M		7 COE Wetlan	ds Delineation Ma	anual) Date: 9 September 06	DP No.	: 13
Project/Site:	Piedmont Oak E				State: CA	DI 110	. 10
Applicant/Owner:	Piedmont Oak E				ounty: El Dorado		
Do Normal Circumstan Is the site significantly Is the site a potential P	nces exist on the s disturbed (Atypic	site? cal Situation		Yes No Yes No Yes No	□ Community ID: <u>L</u> ⊠ Transect ID:	Jpland	
VEGETATION	```						
Dominant Plan	t Species	Stratum	Indicator	Domi	nant Plant Species	Stratum	Indicator
1. Bromus hordeaceus		Н	FACU-	6. Torilis arve	nsis	Н	
2. Artemisia douglasia	na	Н	FACW	7. Trifolium s	0.	Н	
3. Lolium multiflorum		Н	FAC	8. Lactuca ser	riola	Н	FAC
4. Hordeum marinum s gussoneanum	ssp.	Н	FAC	9. Centaurea	solstitialis	н	
5. Elymus glaucus		Н	FACU	9. Centaurea	501511111115		
Percent of Dominant S Remarks:	pecies that are O			luding FAC-):	4/9 = 44%		
Aerial Photo Other No Recorded Data Field Observations: Depth of Surface W Depth to Free Water Depth to Saturated S	e, or Tide Gauge ographs Available ater: in Pit: Soil:	(in.) (in.) (in.)	Prim. Ir S 1 W D S	and Hydrology ary Indicators: nundated aturated in uppe 2 inches Vater marks vift lines ediment deposit rainage patterns	s Secondary (2 or m Oxidize upper Local s FAC-N s	y Indicators ore required ed root chann 12 inches soil survey d Jeutral Test (explain in re- stained leav	nels in ata emarks)
Remarks: No evidence	-						
SOILS Map Unit Nam (Series		amond Sprin m 3 to 50%	ngs very rock slopes	y fine sandy	Field Observations Co	nfirm Mappo	ed Type?
Taxonomy	·		1		Yes	🖂 No	
	inage Class:						
Depth (inches) Hor		trix Color 1sell Moist)		ttle Colors nsell Moist)	Mottle Abundance/ Contrast	,	Concretions, ure, etc.
	<u></u>						
0-10	10	OYR 3/4				L	oam
Reducing Gleyed or Remarks: Not hydric.	pedon dor isture Regime Conditions Low-Chroma Co	lors		Organic Streal Listed on Loca	Content in Surface Layer S king in Sandy Soils al Hydric Soils List onal Hydric Soils List n in Remarks)	Sandy Soils	
WETLAND DETERI Hydrophytic Vegetatic Wetland Hydrology Pr Hydric Soils Present? Remarks/Rationale: C	on Present?		No No No	Is this samp	ling point within a wetland	1? 🗌 Yes	🛛 No

Data Form Routine Wetland Determination 987 COE Wetlands Delineation Manual

Field Investigator(s):	Adam Forbes M.S			ds Delineation Manual		DP No.	: 14
Project/Site:	Piedmont Oak Es	tates		State	e: CA		
Applicant/Owner:	Piedmont Oak Es	tates LLC		Count	: El Dorado		
Do Normal Circumsta Is the site significantly Is the site a potential P	disturbed (Atypica	al Situation		Yes ⋈ No □ Yes □ No ⋈ Yes □ No ⋈	Community ID: <u>U</u> Transect ID: <u></u> Plot ID:	pland	
VEGETATION							
Dominant Plan	t Species	Stratum	Indicator	Dominant	Plant Species	Stratum	Indicator
1. Avena fatua		Н		5. Elymus glaucus		Н	FACU
2. Toxicodendron dive	ersilobum	S		6. Bromus hordea	ceus	Н	FACU-
3. Torilis arvensis		Н		7. Aira caryophyll	ea	Н	
4. Cynosurus echinatu	S	Н					
Percent of Dominant S	Species that are OB	L, FACW	, or FAC (exc	cluding FAC-): 0/7	= 0%	•	
Remarks:							
					•		
HYDROLOGY				land Hydrology Ind		T 11	
Recorded Data (De	,):		ary Indicators:	2	/ Indicators	、 、
	te, or Tide Gauge			nundated		ore required	
Aerial Photo	ographs			aturated in upper		ed root chani	nels in
Other				2 inches		2 inches	
🛛 No Recorded Data	Available		V	Vater marks	Local s	oil survey d	ata
Field Observations:				Drift lines	🗌 FAC-N	eutral Test	
Depth of Surface W	'ater:	(in.)		ediment deposits	Other (explain in re	emarks)
Depth to Free Water		(in.)		Drainage patterns in v	vetlands 🗌 Water-	stained leav	es
Depth to Saturated S		(in.)		• •			
		< /					
Remarks: No evidend		< /					
	ce of wetland hydro	< /				~	
Remarks: No evidend SOILS Map Unit Nan (Series	ce of wetland hydro ne and Phase):	< /]	Field Observations Co	nfirm Mappe	ed Type?
Remarks: No evident SOILS Map Unit Nan (Series Taxonomy	ce of wetland hydro ne and Phase): (Subgroup):	< /]	Field Observations Co	nfirm Mappo	ed Type?
Remarks: No evident SOILS Map Unit Nan (Series Taxonomy Dra	ce of wetland hydro ne and Phase): (Subgroup): inage Class:	ology.			Yes	🗌 No	
Remarks: No evident SOILS Map Unit Nam (Series Taxonomy Dra Depth	ce of wetland hydro ne and Phase): (Subgroup): inage Class: Matr	ix Color		ottle Colors M	Yes Iottle Abundance/	☐ No Texture, 0	Concretions,
Remarks: No evidend SOILS Map Unit Nan (Series Taxonomy Dra Depth	ce of wetland hydro ne and Phase): (Subgroup): inage Class: Matr	ology.			Yes	☐ No Texture, 0	
Remarks: No evident SOILS Map Unit Nam (Series Taxonomy Dra Depth	ce of wetland hydro ne and Phase): (Subgroup): inage Class: Matr	ix Color		ottle Colors M	Yes	☐ No Texture, 0	Concretions,
Remarks: No evident SOILS Map Unit Nam (Series Taxonomy Dra Depth	ce of wetland hydro ne and Phase): (Subgroup): inage Class: Matr	ix Color		ottle Colors M	Yes	☐ No Texture, 0	Concretions,
Remarks: No evidend SOILS Map Unit Nan (Series Taxonomy Dra Depth (inches) Hon	ce of wetland hydro ne and Phase): (Subgroup): inage Class: Matr rizon(Muns	ix Color		ottle Colors M	Yes	☐ No Texture, 0	Concretions,
Remarks: No evident SOILS Map Unit Nan (Series) Taxonomy Dra Depth (inches) Hor	ce of wetland hydro ne and Phase): (Subgroup): inage Class: Matr rizon(Muns	ix Color		ottle Colors M nsell Moist)	Yes	☐ No Texture, 0	Concretions,
Remarks: No evident SOILS Map Unit Nan (Series Taxonomy Dra Depth (inches) Hor Hor Histosol	ce of wetland hydro ne and Phase): (Subgroup): inage Class: Matr rizon (Muns	ix Color		ottle Colors M nsell Moist)	Yes Iottle Abundance/ Contrast	□ No Texture, (Struct	Concretions,
Remarks: No evidend SOILS Map Unit Nan (Series Taxonomy Dra Depth (inches) Hor Hor Histosol Histosol Histic Epi	ce of wetland hydro ne and Phase): (Subgroup): inage Class: Matr rizon (Muns rs:	ix Color		ottle Colors M nsell Moist)	Yes Iottle Abundance/ Contrast tent in Surface Layer S	□ No Texture, (Struct	Concretions,
Remarks: No evident SOILS Map Unit Nan (Series Taxonomy Dra Depth (inches) Hor Hor Histosol	ce of wetland hydro ne and Phase): (Subgroup): inage Class: Matr rizon (Muns rs:	ix Color		ottle Colors M nsell Moist)	Yes Iottle Abundance/ Contrast tent in Surface Layer S	□ No Texture, (Struct	Concretions,
Remarks: No evident SOILS Map Unit Nam (Series) Taxonomy Dra Depth (inches) Hor Hydric Soil Indicator Histosol Histic Epi Sulfidic C	ce of wetland hydro ne and Phase): (Subgroup): inage Class: Matr rizon (Muns rs:	ix Color		ottle Colors M nsell Moist)	Yes Iottle Abundance/ Contrast tent in Surface Layer S in Sandy Soils	□ No Texture, (Struct	Concretions,
Remarks: No evidend SOILS Map Unit Nan (Series Taxonomy Dra Depth (inches) Hor Hor Histosol Histic Epi Sulfidic C Aquic Mo	ce of wetland hydro ne and Phase): (Subgroup): inage Class: Matr rizon (Muns rizon rs: ipedon Odor	ix Color		Dittle Colors M nsell Moist) Concretions High Organic Con Organic Streaking	Yes Iottle Abundance/ Contrast tent in Surface Layer S in Sandy Soils ydric Soils List	□ No Texture, (Struct	Concretions,
Remarks: No evident SOILS Map Unit Nam (Series) Taxonomy Dra Depth (inches) Hor Hydric Soil Indicator Histosol Histic Epi Sulfidic C Aquic Mo Reducing	ce of wetland hydro ne and Phase): (Subgroup): inage Class: Matr rizon(Muns rs: ipedon Odor bisture Regime	ix Color ell Moist)		ottle Colors M nsell Moist)	Tottle Abundance/ Contrast Tent in Surface Layer S in Sandy Soils ydric Soils List Hydric Soils List	□ No Texture, (Struct	Concretions,
Remarks: No evident SOILS Map Unit Nam (Series) Taxonomy Dra Depth (inches) Hor Hydric Soil Indicator Histosol Histic Epi Sulfidic C Aquic Mo Reducing	ce of wetland hydro ne and Phase): (Subgroup): inage Class: Matr rizon(Muns rs: ipedon Odor bisture Regime Conditions Low-Chroma Colo	ix Color ell Moist)	(Mu	ottle Colors M nsell Moist)	Tottle Abundance/ Contrast Tent in Surface Layer S in Sandy Soils ydric Soils List Hydric Soils List	□ No Texture, (Struct	Concretions,
Remarks: No evident SOILS Map Unit Nan (Series) Taxonomy Dra Depth (inches) Hor Hydric Soil Indicator Histosol Histic Epi Sulfidic C Aquic Mo Gleyed or Remarks: Soil pit unn	ce of wetland hydro ne and Phase): (Subgroup): inage Class: Matr rizon (Muns rs: ipedon Odor pisture Regime Conditions · Low-Chroma Colo iecessary (1987 Ma	ix Color ell Moist)	(Mu	ottle Colors M nsell Moist)	Tottle Abundance/ Contrast Tent in Surface Layer S in Sandy Soils ydric Soils List Hydric Soils List	□ No Texture, (Struct	Concretions,
Remarks: No evident SOILS Map Unit Nam (Series) Taxonomy Dra Depth (inches) Hor Hydric Soil Indicator Histosol Histic Epi Sulfidic C Aquic Mo Reducing Gleyed or Remarks: Soil pit unn	ce of wetland hydro ne and Phase): (Subgroup): inage Class: Matrice fixed (Munses) freedon Odor Disture Regime Conditions Low-Chroma Color incecessary (1987 Ma	ix Color ell Moist)	(Mu	ottle Colors M nsell Moist)	Yes Iottle Abundance/ Contrast tent in Surface Layer S in Sandy Soils ydric Soils List Hydric Soils List Remarks)	No Texture, C Struct Sandy Soils	Concretions, ure, etc.
Remarks: No evident SOILS Map Unit Nam (Series) Taxonomy Dra Depth (inches) Hor Hydric Soil Indicator Histosol Histic Epi Sulfidic C Aquic Mo Reducing Gleyed or Remarks: Soil pit unn WETLAND DETER Hydrophytic Vegetation	ce of wetland hydro ne and Phase): (Subgroup): inage Class: Matrice fizon (Munse Conditions Condi	ix Color ell Moist) ors nual, Fig. es 🖂	(Mu	ottle Colors M nsell Moist)	Tottle Abundance/ Contrast Tent in Surface Layer S in Sandy Soils ydric Soils List Hydric Soils List	No Texture, C Struct Sandy Soils	Concretions,
Remarks: No evident SOILS Map Unit Nam (Series) Taxonomy Dra Depth (inches) Hor Hydric Soil Indicator Histosol Histic Epi Sulfidic C Aquic Mo Gleyed or Remarks: Soil pit unn WETLAND DETER Hydrophytic Vegetation Wetland Hydrology Pro	ce of wetland hydro ne and Phase):	ix Color ell Moist) nual, Fig. es X	(Mu	ottle Colors M nsell Moist)	Yes Iottle Abundance/ Contrast tent in Surface Layer S in Sandy Soils ydric Soils List Hydric Soils List Remarks)	No Texture, C Struct Sandy Soils	Concretions, ure, etc.
Remarks: No evident SOILS Map Unit Nam (Series) Taxonomy Dra Depth (inches) Hor Hydric Soil Indicator Histosol Histic Epi Sulfidic C Sulfidic C Reducing Gleyed or Remarks: Soil pit unn WETLAND DETER Hydrophytic Vegetatio Wetland Hydrology Pi Hydric Soils Present?	ce of wetland hydro ne and Phase):	ix Color ell Moist) nual, Fig. es X	(Mu	ottle Colors M nsell Moist)	Yes Iottle Abundance/ Contrast tent in Surface Layer S in Sandy Soils ydric Soils List Hydric Soils List Remarks)	No Texture, C Struct Sandy Soils	Concretions, ure, etc.
Remarks: No evident SOILS Map Unit Nam (Series) Taxonomy Dra Depth (inches) Hor Hydric Soil Indicator Histosol Histic Epi Sulfidic C Aquic Mo Gleyed or Remarks: Soil pit unn WETLAND DETER Hydrophytic Vegetation Wetland Hydrology Pro	ce of wetland hydro ne and Phase):	ix Color ell Moist) nual, Fig. es X	(Mu	ottle Colors M nsell Moist)	Yes Iottle Abundance/ Contrast tent in Surface Layer S in Sandy Soils ydric Soils List Hydric Soils List Remarks)	No Texture, C Struct Sandy Soils	Concretions, ure, etc.

Field Investigator(s):	Adam Forbes M		7 COE Wetlan	ids Delineation Ma	Date: 10 S	eptember	DP No.	: 15
Droigot/Sites	Piedmont Oak E	atataa			State: CA			
Project/Site: Applicant/Owner:	Piedmont Oak E				State: <u>CA</u> ounty: El D	orado		
Applicant/Owner.	r leumont Oak E			C	Junty. <u>ET E</u>	01200		
Do Normal Circumsta Is the site significantly	disturbed (Atypic	cal Situation		Yes No Yes No	Tr	ansect ID:	pland	
Is the site a potential F VEGETATION	roblem Area? (If	needed, exp	blain below)	Yes No	X	Plot ID:		
Dominant Plar	nt Species	Stratum	Indicator	Domi	nant Plant Sp	pecies	Stratum	Indicator
1. Lolium multiflorum		Н	FAC	5. Verbascum	thapsus		Н	
2. Eremocarpus setige	erus	Н		6. Taeniatheri	um caput-me	dusae	Н	
3. Plantago lanceolate	a	Н	FAC-	7. Juncus bufe	onius		Н	FACW+
4. Centaurea solstitial	is	Н		8. Vulpia myu	ros var. mvu	ros	Н	FACU
Percent of Dominant S								mee
Remarks:	· · · · · · · · · · · · · · · · · · ·	,	, (_,,			
HYDROLOGY				land Hydrology	y Indicators:			
Recorded Data (De		s):		ary Indicators:			/ Indicators	
	te, or Tide Gauge			nundated			ore required	
Aerial Phote	ographs			aturated in uppe	er		d root chan	nels in
Other				2 inches			2 inches	
No Recorded Data	Available			Vater marks			oil survey d	ata
Field Observations:				Drift lines			eutral Test	•
Depth of Surface W		(in.)		ediment deposit			explain in re	
Depth to Free Wate		(in.)		Drainage patterns	s in wetlands	Water-	stained leav	es
Depth to Saturated	Soil:	(in.)						
Remarks: Only one s	secondary indicato	r present.						
SOILS Map Unit Nam (Series	ne Dia and Phase): 9 to	1	ngs very fine es	sandy loam	Field Ob	servations Cor	nfirm Mappe	ed Type?
	(Subgroup):					<u> </u>	—	
-	inage Class:					🛛 Yes	No No	
Depth		trix Color	Ma	ottle Colors	Mottle Al	oundance/	Texture (Concretions,
		usell Moist)		insell Moist)		trast		ure, etc.
		isen wioist)			Fe		Bildet	ure, etc.
0-8	10)YR 5/4		5YR 4/6		inent	L	oam
Hydric Soil Indicator	rs:							
Histosol			Г	Concretions				
Histic Epi	inedon		F	High Organic	Content in S	urface Laver S	Sandy Soils	
			F	Organic Streat			undy bons	
	bisture Regime		Г	Listed on Loca				
	Conditions		Г	Listed on Nati				
	Low-Chroma Co	lors	Γ	Other (Explain				
Remarks: Not hydric.						/		
WETLAND DETER	MINATION							
Hydrophytic Vegetatio		les 🖂	No	Is this samp	ling point wi	thin a wetland	? TYes	🛛 No
Wetland Hydrology P		=	No	15 units sump	Sing point in			
Hydric Soils Present?		les 🖂						
Remarks/Rationale: C				1				

Field Investigator(s):	Adam Forbes M		7 COE Wetla	nds Delineation I	Manual) Date:	10 September	DP No.	: 16
Project/Site:	Piedmont Oak E	states			State:	<u> 06 </u>		
Applicant/Owner:	Piedmont Oak E					El Dorado		
Do Normal Circumsta	nces exist on the s	ite?		Yes 🛛 N	lo 🗌	Community ID: U	pland	
Is the site significantly					lo 🛛 Io 🕅	Transect ID: Plot ID:		
Is the site a potential F VEGETATION	Toblem Alea? (II	lieeueu, exp	fiant below)	Yes N		Flot ID.		
Dominant Plan	t Species	Stratum	Indicator			lant Species	Stratum	Indicator
1. Lolium multiflorum		Н	FAC	5. Artemisia	ı douglas	siana	Н	FACW
2. Elymus glaucus		Н		6. Cynosuru	ıs echina	tus	Н	
3. Avena fatua		Н		7. Verbena	litoralis		Н	FACW
4. Taeniatherum capu	t-medusae	Н		8. Bromus h	ordeace	us	Н	FACU-
Percent of Dominant S Remarks:		BL, FACW	, or FAC (ex					
HYDROLOGY				tland Hydrolo				
Recorded Data (De		s):		nary Indicators	5:		Indicators	
	e, or Tide Gauge			nundated			ore required	
Aerial Photo	ographs			Saturated in up	per	Oxidize		nels in
Other	A			12 inches			2 inches	- 4 -
No Recorded Data	Available			Water marks			oil survey d eutral Test	ata
Field Observations:	r ,	(\cdot, \cdot)		Drift lines Sediment depos	aita		eutral Test explain in re	mortes
Depth of Surface W		(in.)		Drainage patter			stained leav	
Depth to Free Wate		(in.)		Jianage patter	ins in we		stameu ieav	65
Depth to Saturated		(in.)						
Remarks: Only one s	secondary indicato	r present.						
SOILS Map Unit Nan (Series	ne Dia and Phase): 9 to			sandy loam	Fie	eld Observations Con	ıfirm Mappo	ed Type?
Taxonomy	(Subgroup):							
•	inage Class:				_	Yes	🛛 No	
Depth		trix Color	М	ottle Colors	Mo	ottle Abundance/	Texture. (Concretions,
-		sell Moist)		unsell Moist)		Contrast	,	ure, etc.
0-6	7.:	5YR 4/4					L	oam
Hydric Soil Indicator	'S:							
Histosol			Г	Concretions	2			
Histic Epi	nedon		ľ			nt in Surface Layer S	andy Soils	
			Γ			Sandy Soils	and some	
	isture Regime		Ī			ric Soils List		
	Conditions		Ī			Iydric Soils List		
	Low-Chroma Co	lors	Ī	Other (Expl				
Remarks: Not hydric.				*				
WETLAND DETER	MINATION							
Hydrophytic Vegetatio		les 🖂	No	Is this san	nnling na	oint within a wetland	? 🗌 Yes	🛛 No
Wetland Hydrology P			No	15 0115 541	-ihung h		· _ 103	
Hydric Soils Present?			No					
Remarks/Rationale: C			110					

Field Investigator(s):	Adam Forbes M.		7 COE Wetlan	ds Delineation N	Manual) Date:	10 September 06	DP No.	: 17
Project/Site:	Piedmont Oak Es	states			State:	CA		
Applicant/Owner:	Piedmont Oak Es				-	El Dorado		
Do Normal Circumsta						Community ID: U	pland	
Is the site significantly	disturbed (Atypic	al Situation	n)?	Yes 🗍 No	0	Transect ID:	•	
Is the site a potential H	Problem Area? (If r	needed, exp	olain below)	Yes 🗌 No	o 🖂	Plot ID:		
VEGETATION								
Dominant Plar	nt Species	Stratum H	Indicator	Dom 5. Aesculus d		ant Species	Stratum T	Indicator
2. Toxicodendron dive	ersilobum	S		6. Cynosuru			H	
				· · ·				
3. Lolium multiflorum		Н	FAC	7. Pentagrar	mma triai	ngularis	Н	
4. Quercus kelloggii		Н						
Percent of Dominant S Remarks:	Species that are OE	BL, FACW	· · · · ·					
HYDROLOGY				and Hydrolog				
Recorded Data (De):		ary Indicators:	:	Secondary		
	ke, or Tide Gauge			nundated			re required	
Aerial Photo	ographs			aturated in upp 2 inches	per		d root chani 2 inches	nels in
No Recorded Data	Available			2 menes Vater marks			2 menes oil survey da	ata
Field Observations:	Available			Frift lines			eutral Test	ata
Depth of Surface W	ater	(in.)		ediment depos	sits		explain in re	emarks)
Depth to Free Wate		(in.)		rainage patter			stained leav	
Depth to Saturated		(in.)		8- F				
Remarks: Data point			cross slope	No evidence of	f wetland	hydrology		
Kemarks. Data point	in old mining die	ii ulat rulis	cross slope.		i wettanu	nyurology.		
SOILS Map Unit Nan		mond Sprin n 3 to 50%	ngs very rock	y fine sandy	Fiel	ld Observations Con	firm Mappe	ed Type?
	· · · · ·	11 5 10 50%	slopes		_		11	51
-	(Subgroup):				_	Yes	🛛 No	
	inage Class:	rix Color	Ma	ttle Celere	Mat	the Albert damage/	Tautura	7
Depth (inches) Hot		sell Moist)		ottle Colors nsell Moist)	MOU	tle Abundance/	_	Concretions,
(inches) Ho		sen moist)	(1110	liseli Wolst)		Contrast	Struct	ure, etc.
0-8	10	YR 4/4					Lo	oam
					· · · · · · · · · · · · · · · · · · ·			
Hydric Soil Indicator	rs:							
Histosol			Г	Concretions				
Histic Epi	ipedon		Ē		ic Conten	t in Surface Layer S	andv Soils	
	-			Organic Stre				
Aquic Mo	oisture Regime			Listed on Lo	ocal Hydr	ic Soils List		
	Conditions			Listed on Na	ational Hy	ydric Soils List		
	Low-Chroma Col	ors		Other (Expla	ain in Rer	narks)		
Remarks: Not hydric.								
WETLAND DETER	MINATION							
Hydrophytic Vegetatio		'es 🖂	No					N
Wetland Hydrology P			No	Is this sam	npling poi	int within a wetland	? Yes	🛛 No
Hydric Soils Present?			No					
Remarks/Rationale: C				1				

Field Investigator(s):	Adam Forbes M		7 COE Wetlan	ids Delineation M	Date: 10	September	DP No.	: 18
Drain at/Sites	Diadata at Oals E				State: CA			
Project/Site: Applicant/Owner:	Piedmont Oak E Piedmont Oak E			C		Dorado		
Applicant/Owner.		states LLC		C		Dorado		
Do Normal Circumsta	nces exist on the s	ite?		Yes 🛛 No	Com	munity ID: U	pland	
Is the site significantly	v disturbed (Atypic	cal Situation	n)?	Yes 🗌 No	T T	ransect ID:		
Is the site a potential F	Problem Area? (If	needed, exp	lain below)	Yes 🗌 No	\boxtimes	Plot ID:		
VEGETATION			. .					.
Dominant Plan	it Species	Stratum	Indicator	Domi	inant Plant S	pecies	Stratum	Indicator
1. Aira caryophyllea		Н		5. Plantago la	inceolata		Н	FAC
2. Avena fatua		Н		6. Rhamnus te	omentella ssj	p. tomentella	S	
3. Gastridium ventrico	osum	Н		7. Elymus gla	ucus		Н	FACU
4. Centaurea solstitial	is	Н		8. Hypericum	perforatum		Н	
Percent of Dominant S	Species that are OI	BL, FACW	, or FAC (exc					
Remarks:								
HYDROLOGY			Wet	land Hydrolog	y Indicators	5:		
Recorded Data (De		s):	Prim	ary Indicators:		Secondary		
	e, or Tide Gauge			nundated			ore required	
Aerial Photo	ographs			aturated in uppe	er		d root chan	nels in
Other	Available			2 inches Vater marks			2 inches oil survey d	oto
Field Observations:	Available			Drift lines			eutral Test	ala
Depth of Surface W	ater	(in.)		Sediment deposi	ts		explain in re	emarks)
Depth to Free Wate		(in.)		Drainage pattern			stained leav	
Depth to Saturated		(in.)				_		
Remarks: No eviden		· · ·						
SOILS Map Unit Nan	ne Dia	mond Sprin	ngs very fine	sandy loam				
	and Phase): 9 to			j	Field Observations Confirm Mapped 7			ed Type?
Taxonomy	(Subgroup):				−			
-	inage Class:					i res		
Depth		trix Color	Mo	ottle Colors	Mottle A	bundance/	Texture, O	Concretions,
(inches) Hor	rizon (Mur	sell Moist)	(Mu	insell Moist)	Cor	ntrast	Struct	ure, etc.
0-8	1()YR 4/4					L	oam
Hydric Soil Indicator	rs:							
Histosol				Concretions				
Histic Epi			Ļ			Surface Layer S	andy Soils	
			Ļ	Organic Strea				
	oisture Regime		Ļ	Listed on Loc				
	Conditions Low-Chroma Co	0.00		Listed on Nat Other (Explai				
Remarks: Not hydric.	Low-Chionia Co.	1018				.8)		
WETLAND DETER								
Hydrophytic Vegetatio			No	Is this same	oling point w	vithin a wetland	? 🗌 Yes	🛛 No
Wetland Hydrology Pr Hydric Soils Present?			No No	1	U 1			
Remarks/Rationale: C		les 🖂	INU	I				
Kemarks/Kauonale: C								

Field Investigator(s): Adam Fo	(198' orbes M.S.	7 COE Wetlan	ds Delineation Manua Dat		DP No.	: 19	
Project/Site: Piedmor	nt Oak Estates		Stat				
5	nt Oak Estates LLC		Count				
Do Normal Circumstances exist Is the site significantly disturbed	on the site? l (Atypical Situatior		Yes No D Yes No X	Community ID: <u>U</u> Transect ID: <u>Plot ID</u> :	Jpland		
Is the site a potential Problem A VEGETATION	rea? (If fleeded, exp	fiam below)	Yes No 🖂	Plot ID:			
Dominant Plant Species	Stratum	Indicator		Plant Species	Stratum	Indicator	
1. Elymus glaucus	Н	FACU	5. Trifolium hirtur	n	Н		
2. Cynosurus echinatus	Н		6. Centaurea sols	titialis	Н		
3. Avena fatua	Н		7. Arctostaphylos	sp.	S		
4. Bromus diandrus	Н		8. Hypericum perj	Foratum	Н		
Percent of Dominant Species tha Remarks:		, or FAC (exc					
HYDROLOGY Recorded Data (Describe in I Aerial Photographs Other No Recorded Data Available Field Observations: Depth of Surface Water: Depth to Free Water in Pit: Depth to Saturated Soil:	Gauge (in.) (in.) (in.)	Prim	Wetland Hydrology Indicators: Secondary Indicators Primary Indicators: Secondary Indicators Inundated (2 or more required): Saturated in upper Oxidized root channels i 12 inches upper 12 inches Water marks Local soil survey data Drift lines FAC-Neutral Test Sediment deposits Other (explain in remarks) Drainage patterns in wetlands Water-stained leaves				
Remarks: No evidence of weth							
SOILS Map Unit Name (Series and Phase	Diamond Sprin e): loam 3 to 50%		y fine sandy	Field Observations Co	nfirm Mapp	ed Type?	
Taxonomy (Subgroup		stopes					
Drainage Clas				🛛 Yes	🗌 No		
Depth	Matrix Color	Mo	ottle Colors	Mottle Abundance/	Texture, (Concretions,	
(inches) Horizon	(Munsell Moist)	(Mu	nsell Moist)	Contrast	Struct	ure, etc.	
0-8	7.5YR 4/4				Sand	y Loam	
Hydric Soil Indicators: Histosol Histic Epipedon Sulfidic Odor Aquic Moisture Reg Reducing Condition Gleyed or Low-Chr	18		Organic Streaking Listed on Local H	ydric Soils List l Hydric Soils List	Sandy Soils		
Remarks: Not hydric.				· · · · · ·			
WETLAND DETERMINATION Hydrophytic Vegetation Present Wetland Hydrology Present? Hydric Soils Present? Remarks/Rationale: Criteria not	? ☐ Yes	No No No	Is this sampling	point within a wetland	l? 🗌 Yes	🛛 No	

Field Investigator(s):	Adam Forbes M		7 COE Wetla	nds Delineat	ion Manual) Date:	10 September 06	DP No.	: 20
Project/Site:	Piedmont Oak E	states			State:			
Applicant/Owner:	Piedmont Oak E				County:			
Do Normal Circumsta Is the site significantly Is the site a potential F	y disturbed (Atypic	cal Situation		Yes ⊠ Yes □ Yes □	No 🗌 No 🕅 No 🕅	Community ID: U Transect ID: Plot ID:	pland	
VEGETATION	1001011111101. (1101		
Dominant Plar	nt Species	Stratum H	Indicator FACW+		Dominant P ampsia dar	lant Species	Stratum H	Indicator FACW
2. Lythrum hyssopifoli		Н	FACW+		idium ventr		Н	FACW
								FACU
3. Lolium multiflorum		Н	FAC	7. Cynos	surus echino	atus	Н	
4. Hordeum marinum gussoneanum	ssp.	Н	FAC	8. Torili	s arvensis		Н	
Percent of Dominant S	Species that are OI					63%	**	
Remarks:	L	-	· ·	-	*			
HYDROLOGY			Wei	tland Hydr	ology Indi	ostare.		
Recorded Data (De	escribe in Remarks	s):		nary Indicat			Indicators	
	ke, or Tide Gauge			Inundated		(2 or mo	ore required	
Aerial Phote	ographs			Saturated in	upper		d root chani	nels in
Other				12 inches			2 inches	
No Recorded Data Field Observations:	Available			Water mark Drift lines	S		oil survey d eutral Test	ata
Depth of Surface W	lotar	(in)		Sediment de	enosits		eutral Test explain in re	marks)
Depth to Free Wate		(in.) (in.)			atterns in we		stained leav	
Depth to Saturated		(in.)		0 1				
Remarks: Only one s		· · /	I					
	-							
SOILS Map Unit Nan		or Diggin	~~		Fi	eld Observations Cor	nfirm Mappe	ed Type?
	and Phase): <u>Pla</u> (Subgroup):	cer Digging	38				1.	
-	(Subgroup).					🛛 Yes	🗌 No	
Depth		trix Color	М	ottle Colors	× Mo	ottle Abundance/	Texture, (Concretions,
		nsell Moist)		unsell Mois		Contrast	_	ure, etc.
					<u> </u>			
-0-6 >6 bed		OYR 4/4		5YR 4/6	1	Sew/ Prominent	L(Dam
rock								
Hydric Soil Indicator	rs:							
Histosol			[Concreti				
Histic Ep	-		Ĺ			ent in Surface Layer S	andy Soils	
			Ļ			n Sandy Soils		
	oisture Regime		L		•	dric Soils List		
	Conditions Low-Chroma Col	lors	Ľ		n National I xplain in R	Hydric Soils List		
Remarks: Not hydric.		1015	L			ciliar K3)		
WETLAND DETER				.				
Hydrophytic Vegetatio			No	Is this	sampling p	oint within a wetland	? Yes	🛛 No
Wetland Hydrology P Hydric Soils Present?			No No					
Remarks/Rationale: H				high point	in topo. C	riteria not met.		
	8 ,	J		0 1				

Field Investigator(s):	Adam Forbes M		7 COE Wetlar	nds Delineation M	Manual) Date:	10 September	DP No.	: 21
	<u> </u>				G	06		
Project/Site:	Piedmont Oak E				State:	CA		
Applicant/Owner:	Piedmont Oak E	states LLC		(County:	El Dorado		
Do Normal Circumsta Is the site significantly	disturbed (Atypic	cal Situation			0	Community ID: <u>U</u> Transect ID:	pland	
Is the site a potential H	Problem Area? (If	needed, exp	plain below)	Yes No	o 🖂	Plot ID:		
VEGETATION Dominant Plar	nt Species	Stratum	Indicator	Dom	ninant Pl	lant Species	Stratum	Indicator
1. Cynosurus sp.		Н		5. Vulpia my	<i>yuros</i> va	r. myuros	Н	
2. Aira caryophyllea		Н		6. Juncus bu	ıfonius		Н	FACW+
3. Quercus wislizenii	var. wislizenii	Т		7. Torilis ar	vensis		Н	
4. Bromus madritensis	s ssp. <i>rubens</i>	Н	FACU					
Percent of Dominant S Remarks:		BL, FACW						
HYDROLOGY				land Hydrolog				
Recorded Data (De		s):		ary Indicators:	:		Indicators	`
Aerial Photo	te, or Tide Gauge			nundated Saturated in upp	por		ore required	
	ographs			2 inches	per		2 inches	
No Recorded Data	Available			Vater marks			oil survey d	ata
Field Observations:				Drift lines			eutral Test	
Depth of Surface W	ater:	(in.)		Sediment depos	sits		explain in re	emarks)
Depth to Free Wate		(in.)		Drainage patter			stained leav	
Depth to Saturated		(in.)		01				
Remarks: No eviden			I					
Kemuras, ite etter		01057.						
SOILS Map Unit Nan								
-	and Phase): Pla	er Digging	τc		Fie	eld Observations Cor	nfirm Mappe	ed Type?
	(2.1						* -	• 1
-					_	🛛 Yes	🗌 No	
	inage Class:	rix Color	M	ottle Colors	Ma	ul Abardoneo/	Territuma	Tenentions
Depth (inches) Her					IVIO	ttle Abundance/ Contrast		Concretions,
(inches) Ho		sell Moist)	(1910	insell Moist)	<u> </u>	Contrast	Suuci	ure, etc.
0-8	7.:	5YR 4/6					Sand	y loam
Hydric Soil Indicator	rs:		Г					
Histosol			Ļ	Concretions				
Histic Epi			Ļ			nt in Surface Layer S	andy Solls	
Sulfidic C			L			Sandy Soils		
	oisture Regime		L			ric Soils List Iydric Soils List		
	Conditions Low-Chroma Co	ore		Other (Expla				
Remarks: Not Hydric		015				(111a1K5)		
Kemarks. Not Hydrie								
WETLAND DETER	MINATION							
Hydrophytic Vegetation	on Present?	les 🖂	No	Is this sam	npling p	oint within a wetland	? Yes	🖂 No
Wetland Hydrology P	resent?	les 🖂	No					
Hydric Soils Present?		les 🛛	No					
Remarks/Rationale: C	Criteria not met.							

Field Investigator(s):	Adam Forbes M	-	7 COE Wetland	ds Delineatio	n Manual) Date:	10 September 06	DP No.	: 22
Project/Site:	Piedmont Oak E	states			State:			
Applicant/Owner:	Piedmont Oak E					El Dorado		
Do Normal Circumsta Is the site significantly	nces exist on the s disturbed (Atypic	ite? cal Situation	n)?	Yes	No 🗌 No 🖂	Community ID: <u>U</u> Transect ID:		
Is the site a potential H	Problem Area? (If	needed, exp	plain below)	Yes	No 🛛	Plot ID:		
VEGETATION	~ .	~					~	
Dominant Plan		Stratum	Indicator	D	ominant P	lant Species	Stratum	Indicator
1. Hordeum marinum	ssp.	т	EAC	5 1	C 4		TT	
gussoneanum		Н	FAC	5. Avena f	atua		Н	
2. Lolium multiflorum		Н	FAC	6. Amarar	<i>nthus</i> sp. (a	at least FACW)	Н	FACW
3. Quercus wislizenii	var. wislizenii	Т		7. Eremoc	carpus seti	gerus	Н	
4. Verbascum thapsus		Н						
Percent of Dominant S Remarks:		BL, FACW,						
HYDROLOGY Recorded Data (Data) Stream, Lak Aerial Phote Other No Recorded Data Field Observations: Depth of Surface W Depth to Free Wate Depth to Saturated 3	xe, or Tide Gauge ographs Available ⁷ ater: r in Pit:	(in.) (in.) (in.)	Prim. Ir S 1 W D S	and Hydro ary Indicato nundated aturated in u 2 inches Vater marks orift lines ediment dep orainage patt	ors: upper posits	Secondary (2 or mo Oxidize upper 1 Local so FAC-N Other (o	r Indicators ore required d root chann 2 inches oil survey d eutral Test explain in re stained leav	nels in ata emarks)
Remarks: No eviden		· · /	ea has been es	cavated.				
	2	0.						
	and Phase):					eld Observations Cor	_	ed Type?
•	inage Class:					Yes	∐ No	
Depth	Ma	trix Color asell Moist)		ottle Colors nsell Moist)		ottle Abundance/ Contrast		Concretions, ure, etc.
Reducing	ipedon	lors		Organic S Listed on Listed on	anic Conte treaking ir Local Hyd	nt in Surface Layer S 1 Sandy Soils Iric Soils List Hydric Soils List emarks)	andy Soils	
Remarks: Soil pit unr	ecessary (1987 M	anual, Fig.	14, Step 9).					
WETLAND DETER	- ·		· · · · ·					
Hydrophytic Vegetatic Wetland Hydrology P Hydric Soils Present?	on Present?	les 🛛	No No No	Is this s	ampling p	oint within a wetland	? 🗌 Yes	🛛 No
Remarks/Rationale: C	Lriteria not met.							

Field Investigator(s):	Adam Forbes M		7 COE Wet	ands Delineation M	Date:	10 September	DP No.	: 23
Project/Site:	Piedmont Oak E	atatas				06 CA		
Applicant/Owner:	Piedmont Oak E					El Dorado		
Applicant/Owner.		states LLC		(ounty.	El Dolado		
Do Normal Circumsta	nces exist on the s	ite?		Yes 🛛 No	о П с	Community ID: U	pland	
Is the site significantly			n)?			Transect ID:	F	
Is the site a potential F					$\overline{\boxtimes}$	Plot ID:		
VEGETATION								
Dominant Plan	nt Species	Stratum	Indicato	r Dom	inant Pla	nt Species	Stratum	Indicator
1. Lolium multiflorum		Н	FAC	5. Quercus w	vislizenii v	var. wislizenii	Т	
2. Cynosurus echinatu	lS	Н		6. Avena fatu	ia		Н	
3. Torilis arvensis		Н		7. Bromus di	andrus		Н	
4. Bromus hordeaceus	1	Н	FACU					
Percent of Dominant S				excluding FAC-):	1/7 = 14	4%		
Remarks:	1	,	, (
HYDROLOGY			W	etland Hydrolog	y Indicat	tors:		
Recorded Data (De	escribe in Remarks	s):		imary Indicators:			/ Indicators	
Stream, Lak	ke, or Tide Gauge			Inundated		(ore required	/
Aerial Photo	ographs			Saturated in upp	er		ed root chan	nels in
Other				12 inches			12 inches	
No Recorded Data	Available		[_	Water marks			oil survey d	ata
Field Observations:				Drift lines	-		leutral Test	
Depth of Surface W		(in.)		Sediment deposi			explain in re	
Depth to Free Wate		(in.)		Drainage pattern	ns in weth	ands 🔲 Water-	stained leav	es
Depth to Saturated		(in.)						
Remarks: No eviden	ce of wetland hydr	ology.						
SOILS Map Unit Nan	ne							_
-	and Phase): Pla	cer Digging	gs		Field	d Observations Con	nfirm Mapp	ed Type?
Taxonomy	(Subgroup):				-			
•	inage Class:				_	🛛 Yes	🗌 No	
Depth		trix Color]	Mottle Colors	Mott	le Abundance/	Texture. (Concretions,
		sell Moist)		Aunsell Moist)		Contrast		ure, etc.
0-10	2	5YR 4/3		7.5YR 5/8	For	w Prominent	Ţ	oam
0-10	2	JIK 4/J		7.31K 3/8	1.64	writinnent	L	Jain
Hydric Soil Indicator	rs:							
Histosol				Concretions				
Histic Epi				High Organic	c Content	in Surface Layer S	Sandy Soils	
Sulfidic C)dor			Organic Strea	aking in S	Sandy Soils		
	oisture Regime			Listed on Loo				
	Conditions					dric Soils List		
	Low-Chroma Col	lors		Other (Expla	in in Ren	narks)		
Remarks: Not hydric.								
WETLAND DETER	MINATION							
Hydrophytic Vegetatio		les 🖂	No	Is this sam	pling poin	nt within a wetland	1? 🗌 Yes	🛛 No
	on Present?		No No	Is this same	pling poi	nt within a wetland	l? 🗌 Yes	🛛 No
Hydrophytic Vegetation	on Present?	les 🖂		Is this sam	pling poi	nt within a wetland	l? 🗌 Yes	🛛 No
Hydrophytic Vegetatio Wetland Hydrology Pr	on Present?	les 🖂	No	Is this sam	pling poi	nt within a wetland	1? 🗌 Yes	No No

Field Investigator(s):	Adam Forbes M		7 COE Wetlan	ds Delineation M	Manual) Date:	10 September 06	DP No.	: 24	
Project/Site:	Piedmont Oak E			State:	CA				
Applicant/Owner:	Piedmont Oak Estates LLC State: El Dorado					El Dorado			
Do Normal Circumsta Is the site significantly Is the site a potential F		Yes 🗌 No		Community ID: _U Transect ID: Plot ID:	pland				
VEGETATION					T lot ID.				
		Stratum	Indicator	Dom	Dominant Plant Species			Indicator	
1. Rumex crispus		Н	FACW-	5. Eremocarpus setigerus			Н		
2. Amaranthus sp.		Н	FACW+	6. Toxicoden	5. Toxicodendron diversilobum				
3. Hordeum marinum gussoneanum	ssp.	Н	FAC	7 Compositions achieves			Н		
0			IAC	7. Cynosurus echinatus		us	11		
4. <i>Trichostema lanceo</i> Percent of Dominant S		H BL FACW	or EAC (ev	luding FAC):	$\cdot 3/7 = 0$	<i>V</i> a			
Remarks:	species that are of	DL, PAC W,	, of PAC (exc	luunig PAC-).	. 3/7 = 7	20			
HYDROLOGY Recorded Data (Describe in Remarks): Stream, Lake, or Tide Gauge Aerial Photographs Other No Recorded Data Available Field Observations: Depth of Surface Water: (in.) Depth to Free Water in Pit: (in.) Depth to Saturated Soil:				Vetland Hydrology Indicators: Secondary Indicators Primary Indicators: Secondary Indicators Inundated (2 or more required): Saturated in upper Oxidized root channels in upper 12 inches Water marks Local soil survey data Drift lines FAC-Neutral Test Sediment deposits Other (explain in remarks) Drainage patterns in wetlands Water-stained leaves					
Remarks: No evidence of wetland hydrology. Area has been excavated.									
SOILS Map Unit Name (Series and Phase): Placer Diggings Field Observations Confirm Mapped Type?								ed Type?	
Taxonomy (Subgroup): Drainage Class:						\boxtimes Yes \square No			
Depth Matrix Color (inches) Horizon (Munsell Moist)				ottle Colors insell Moist)			Texture, Concretions, Structure, etc.		
0-8	0-8 10YR 4/4							Sandy Loam	
Hydric Soil Indicator Histosol Sulfidic C Aquic Mo Gleyed or		 Concretions High Organic Content in Surface Layer Sandy Soils Organic Streaking in Sandy Soils Listed on Local Hydric Soils List Listed on National Hydric Soils List Other (Explain in Remarks) 							
Remarks: Not hydric.									
Hydrophytic Vegetatie Wetland Hydrology P Hydric Soils Present?									
Remarks/Rationale: Criteria not met.									

Field Investigator(s):	Adam Forbes M		7 COE Wetland	ds Delineation	n Manual) Date:	10 September 06	DP No.	: 25		
Project/Site:	Piedmont Oak E	states			State:	CA				
Applicant/Owner:	Piedmont Oak E					El Dorado				
Do Normal Circumstances exist on the site? Is the site significantly disturbed (Atypical Situation)?				Yes 🗌 1		Community ID: <u>U</u> Transect ID:	pland			
Is the site a potential F VEGETATION	roblem Area? (If	needed, exp	lain below)	Yes 1	NO 🖂	Plot ID:				
		Indicator	Dominant Plant Species			Stratum	Indicator			
1. Heteromeles arbutij	folia	S		5. Cynosur	rus echina	tus	Н			
2. Lonicera hispidula		S		6. Elymus glaucus			Н	FACU		
3. Toxicodendron dive	rsilobum	S		7. Bromus diandrus			Н			
4. Quercus wislizenii v	var wislizenii	Т								
Percent of Dominant S Remarks:			, or FAC (exc	luding FAC-	-): 0/7 =	0%				
HYDROLOGY Recorded Data (Describe in Remarks): Stream, Lake, or Tide Gauge Aerial Photographs Other No Recorded Data Available Field Observations: Depth of Surface Water: (in.) Depth to Free Water in Pit: (in.) Depth to Saturated Soil:			Prim. Ir S 1 W D S	etland Hydrology Indicators:Secondary Indicatorsmary Indicators:Secondary IndicatorsInundated(2 or more required):Saturated in upperOxidized root channels in upper 12 inches12 inchesLocal soil survey dataWater marksLocal soil survey dataDrift linesFAC-Neutral TestSediment depositsOther (explain in remarks)Drainage patterns in wetlandsWater-stained leaves						
Remarks: No eviden	ce of wetland hydi	rology.								
SOILS Map Unit Nan					Fie	eld Observations Con	firm Manne	ed Type?		
	and Phase):									
Taxonomy (Subgroup): Drainage Class:						Yes	s 🗌 No			
Depth Matrix Color			Mc	ottle Colors	М	lottle Abundance/	Texture, Concretions,			
(inches) Horizon (Munsell Moist)			(Mu	nsell Moist)		Contrast	Structure, etc.			
Hydric Soil Indicators: Histosol Histic Epipedon Sulfidic Odor Aquic Moisture Regime Reducing Conditions Gleyed or Low-Chroma Colors				 Concretions High Organic Content in Surface Layer Sandy Soils Organic Streaking in Sandy Soils Listed on Local Hydric Soils List Listed on National Hydric Soils List Other (Explain in Remarks) 						
Remarks: Soil pit unnecessary (1987 Manual, Fig. 14, Step 9).										
WETLAND DETER Hydrophytic Vegetatio Wetland Hydrology Pr Hydric Soils Present? Remarks/Rationale: C	on Present?	Yes 🖾	No No No	Is this sa	mpling po	pint within a wetland	? 🗌 Yes	🛛 No		

Field Investigator(s):	Adam Forbes M		7 COE Wetlan	ds Delineation	n Manual) Date:	10 September	DP No.	: 26			
						06					
Project/Site: Piedmont Oak Estates					State:						
Applicant/Owner:	er: Piedmont Oak Estates LLC County: El Dorado										
Do Normal Circumstances exist on the site? Is the site significantly disturbed (Atypical Situation)?				Yes	No 🗌 No 🕅	Community ID: <u>U</u> Transect ID:	pland				
Is the site a potential F	Problem Area? (If	needed, exp	olain below)	Yes	No 🛛	Plot ID:					
VEGETATION Indication Dominant Plant Species Stratum		Indicator	Dominant Plant Species			Stratum	Indicator				
1. Heteromeles arbutifolia		S		5. Vulpia i	<i>nyuros</i> va	r. myuros	Н	FACU			
2. Pinus sabiniana		Т		6. Torilis d	arvensis		Н				
3. Quercus douglasii		Т		7. Aira ca	ryophylled	1	Н				
4. Cynosurus echinatu		Н									
Remarks:	Percent of Dominant Species that are OBL, FACW, or FAC (excluding FAC-): 0/7 = 0%										
HYDROLOGY				land Hydro							
Recorded Data (De		s):		Primary Indicators: Secondary Indicators							
Aerial Photo	te, or Tide Gauge			nundated aturated in u	nnor		ore required				
	ographs			2 inches	ipper						
No Recorded Data	Available			12 inchesupper 12 inchesWater marksLocal soil survey data							
Field Observations:				Drift lines							
Depth of Surface Water: (in.)				Sediment deposits Other (explain in remarks)							
Depth to Free Water in Pit: (in.)				Prainage patt			stained leav				
Depth to Saturated Soil: (in.)				• •							
Remarks: No evidence of wetland hydrology.											
iventaries. The evidence of wettand nydrology.											
SOU S Man Unit Nan	20										
SOILS Map Unit Name (Series and Phase): Placer Diggings					Fi	eld Observations Cor	nfirm Mappe	ed Type?			
			55								
Taxonomy (Subgroup):						🖂 Yes	🗌 No				
Drainage Class: Depth Matrix Color			Ma	Mottle Colors Mottle Abundance/			Texture, Concretions,				
-		sell Moist)		nsell Moist)		Contrast		ure, etc.			
		sen woist)	(WIU	insen wioist)		Contrast	Siluci	ure, etc.			
0-8	10)YR 4/4					Loam				
Urdnie Sail Indiaetor	***										
Hydric Soil Indicator	rs:		Г	Concention	•						
Histosol	nadan			Concretion		nt in Surface I over S	andy Soila				
Histic Epipedon Sulfidic Odor				 High Organic Content in Surface Layer Sandy Soils Organic Streaking in Sandy Soils 							
Aquic Moisture Regime				Listed on Local Hydric Soils List							
Reducing Conditions				Listed on National Hydric Soils List							
Gleyed or Low-Chroma Colors				Other (Explain in Remarks)							
Remarks: Not hydric.											
WETLAND DETERMINATION											
Hydrophytic Vegetation Present? Yes No				Is this sampling point within a wetland? \Box Yes \boxtimes No							
Wetland Hydrology Present?YesNoHydric Soils Present?YesNo											
Hydric Soils Present?		les 🔟	No								
Remarks/Rationale: Criteria not met.											

			7 COE Wetlan	ds Delineat	ion Manual)						
Field Investigator(s):	Adam Forbes M	.S.			Date:	10 September 06	DP No.	: 27			
Project/Site:		,	State:								
Applicant/Owner:	Piedmont Oak Estates Piedmont Oak Estates LLC					El Dorado					
Do Normal Circumstances exist on the site? Is the site significantly disturbed (Atypical Situation)? Is the site a potential Problem Area? (If needed, explain be				Yes 🖂 Yes 🗌 Yes 🗍	No 🗌 No 🕅 No 🕅	Community ID: U Transect ID: Plot ID:	pland				
VEGETATION	Toblem Alea: (II	liccucu, cxp				I lot ID.					
Dominant Plant Species		Stratum	Indicator]]	Dominant P	lant Species	Stratum	Indicator			
1. Polygonum arenastrum		Н	FAC	5. Amara	anthus sp. (at least FACW)	Н	FACW			
2. Poa bulbosa H		Н	6. Quer		rus douglas	ii	Т				
3. Rumex crispus		Н	FACW- 7. Cype		us eragrost	is	Н	FACW			
4. Lolium multiflorum		Н	FAC	8. Mimulus guttatus			Н	OBL			
Percent of Dominant S Remarks:	Species that are O	BL, FACW	, or FAC (exc	luding FA	C-): 6/8 =	75%					
HYDROLOGY			Wet	and Hydr	ology Indi	cators:					
Recorded Data (De		s):	Prim	Primary Indicators: Secondary Indicators							
	ke, or Tide Gauge			nundated			ore required				
Aerial Phot	ographs			aturated in	upper	Oxidize		nels in			
Other	Available			12 inches upper 12 inches							
Field Observations:	Available			Water marks Local soil survey data Drift lines FAC-Neutral Test							
Depth of Surface Water: (in.)				Sediment deposits Other (explain in remarks)							
					tterns in we		stained leav				
Depth to Saturated Soil: (in.)											
Remarks: Data point located in old mining ditch.											
	SOILS Map Unit Name (Series and Phase):Diamond Springs very fine sandy loam 9 to 15% slopesField Observations Confirm Mapped Type?										
Tavonomy (Subgroup):											
Drainage Class:						Yes					
Depth Matrix Color				ottle Colors			Texture, Concretions, Structure, etc.				
(inches) Ho	rizon (Mur	nsell Moist)	(Mu	nsell Mois	t)	Contrast	Struct	ure, etc.			
	2.	5YR 4/2					L	oam			
Hydric Soil Indicator	rs:		_	_							
Histosol			Ļ	Concreti							
Histic Ep			Ļ	High Organic Content in Surface Layer Sandy Soils							
Sulfidic Odor Organic Streaking in Sandy Soils Aquic Moisture Regime Listed on Local Hydric Soils List											
	F	Listed on National Hydric Soils List									
Gleyed or Low-Chroma Colors Other (Explain in Remarks)											
Remarks: Not hydric.											
WETLAND DETERMINATION											
Hydrophytic Vegetation		Yes 🗆	No	Is this	sampling n	oint within a wetland	? 🗌 Yes	🖂 No			
Wetland Hydrology P			No		т о Р			<u> </u>			
Hydric Soils Present?			No								
Remarks/Rationale: Criteria not met.											