

# **APPENDIX F**

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Wetland Delineation Report





REPLY TO  
ATTENTION OF

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

February 19, 2004

Regulatory Branch (200300250)

Chris Vrame  
Sierra Holdings, Incorporated  
3600 American River Dr, Suite 105  
Sacramento, California 95864

Dear Mr. Vrame:

This letter concerns the April 15, 2003, wetland delineation for the proposed Rocklin 105 Property project site submitted to this office for verification on your behalf. This 108-acre site is located in Section 16, Township 11 North, Range 7 East, MDB&M, Placer County, California.

Based on a site inspection conducted by Mr. William Ness of this office on December 23, 2003, we concur with the estimate of waters of the United States, as depicted on the December 31, 2003, revision of the map entitled, *Rocklin 105, Wetland Delineation*. Approximately 5.637 acres of waters of the United States, including wetlands, are present within the surveyed area. These waters are regulated by this office under Section 404 of the Clean Water Act since they are tributary or adjacent to a tributary of the Sacramento River, a navigable water.

Under Section 404 of the Clean Water Act, a Department of the Army (DA) permit is required prior to discharging dredged or fill materials into waters of the United States. The type of permit required will depend on a number of factors, including the type and amount of waters affected by the discharge. For more information on how to obtain a DA permit from our office, please visit our website at <http://www.spk.usace.army.mil/cespk-co/regulatory/>.

This verification is valid for five years from the date of this letter unless new information warrants revision of the determination before the expiration date. A notice of appeal options is enclosed. You should provide a copy of this to all other affected parties.

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Please refer to identification number 200300250 in correspondence concerning this project. If you have any questions, please contact Mr. William Ness at our Sacramento Valley Office, 1325 J Street, Room 1480, Sacramento, California 95814-2922, or email William.W.Ness@usace.army.mil, or telephone 916-557-5268. You may also use the Regulatory Permits link on our website: [www.spk.usace.army.mil](http://www.spk.usace.army.mil).

Sincerely,

**ORIGINAL SIGNED**

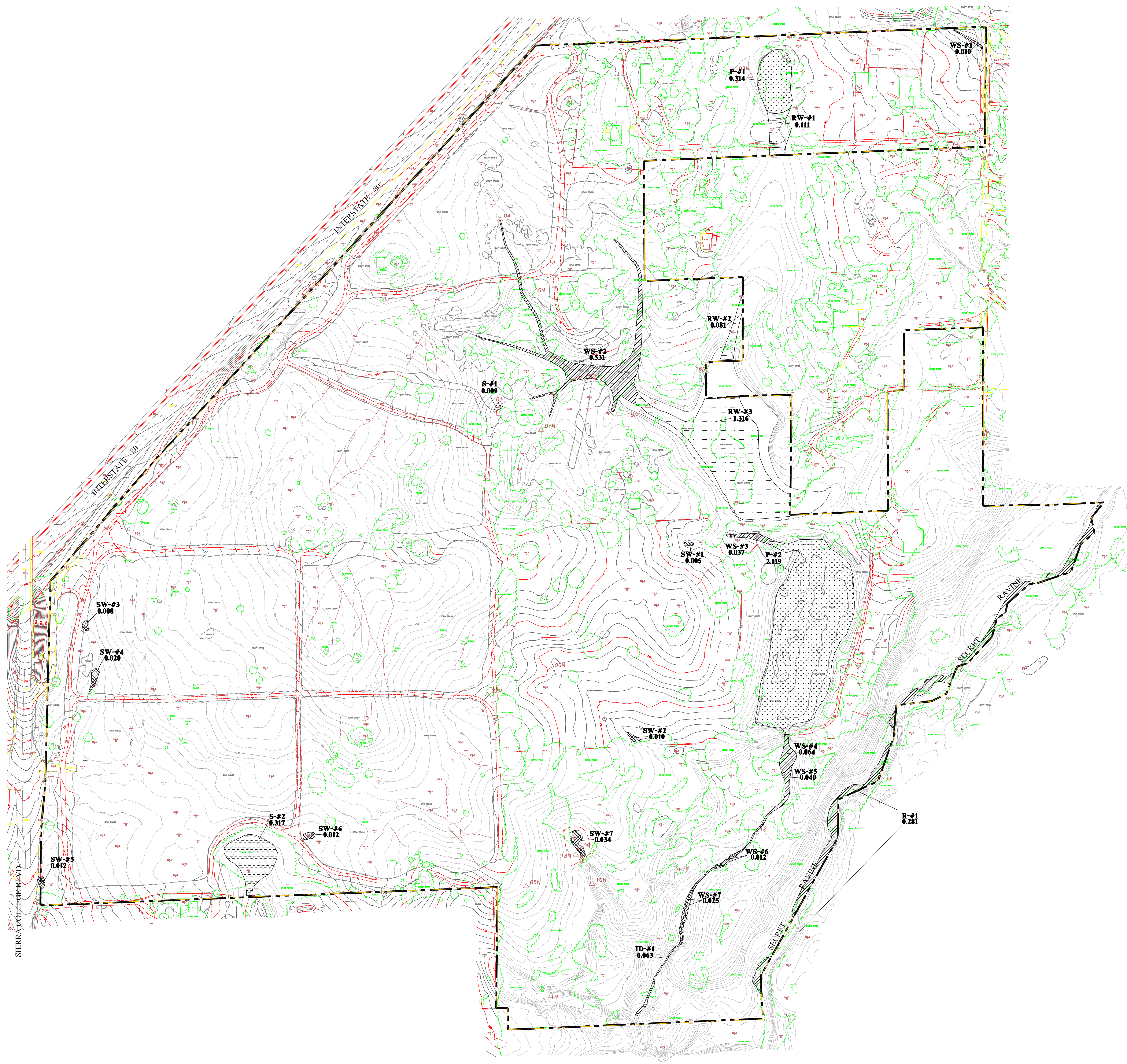
Thomas J. Cavanaugh  
Chief, Sacramento Valley Office

Enclosure

Copies furnished without enclosure:

George Day, Storm Water and Water Quality Certification Unit, Central Valley Regional  
Water Quality Control Board, 11020 Sun Center Drive #200, Rancho Cordova,  
California 95670-6114

✓ Sarah Egan, ECORP Consulting, Incorporated, 2260 Douglas Blvd., Suite 160, Roseville,  
California 95661



SIERRA COLLEGE BLVD.

JOB NAME: ROCKLIN 105 - WD  
SCALE: 1"=100'  
DATE: 28 FEBRUARY 2002  
REVISION: 31 DECEMBER 2003  
FILE NAME: R105-WD.DWG

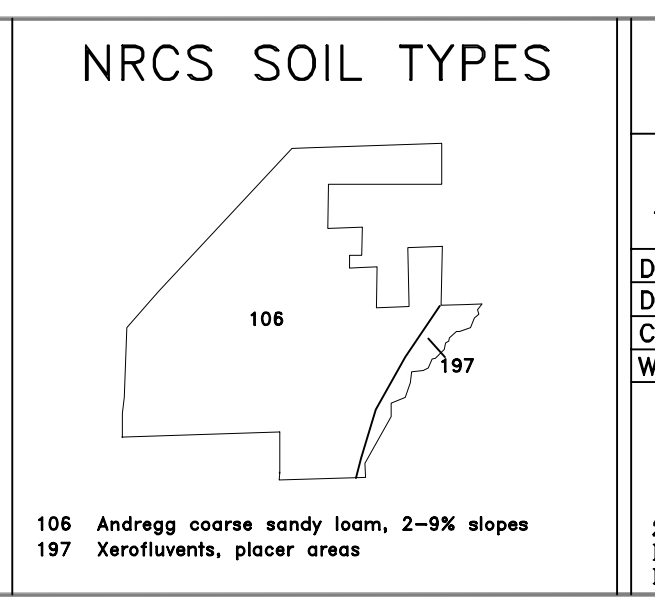
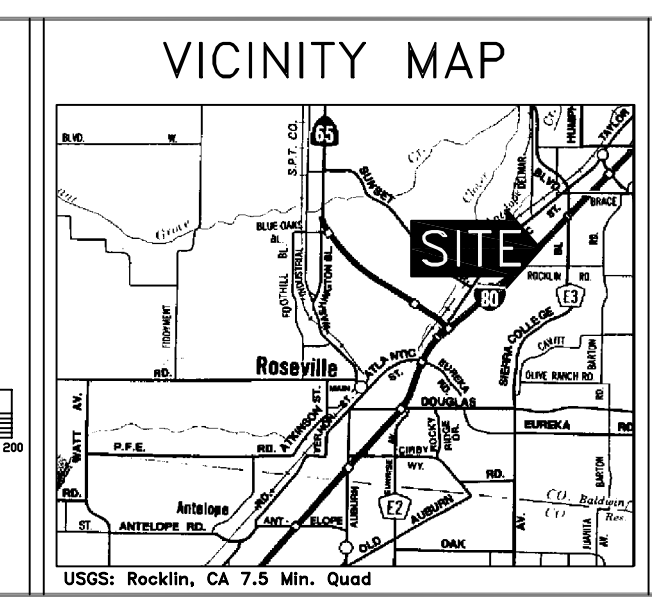
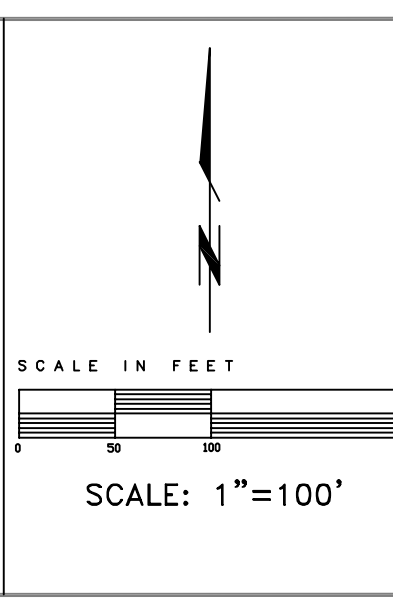
WATERS OF THE U.S. ACREAGE <sup>1</sup>		
Wetland Swale	Intermittent Drainage	Seep
WS-#1 0.010 ac.	ID-#1 0.063 ac.	S-#1 0.009 ac.
WS-#2 0.531 ac.	S-#2 0.317 ac.	
WS-#3 0.037 ac.	TOTAL: 0.063 ac.	TOTAL: 0.326 ac.
WS-#4 0.064 ac.	Seasonal Wetland	Secret Ravine
WS-#5 0.040 ac.	SW-#1 0.005 ac.	R-#1 0.487 ac.
WS-#6 0.012 ac.	SW-#2 0.010 ac.	TOTAL: 0.487 ac.
WS-#7 0.025 ac.	SW-#3 0.008 ac.	
TOTAL: 0.719 ac.	SW-#4 0.020 ac.	
	SW-#5 0.012 ac.	
	SW-#6 0.012 ac.	
	SW-#7 0.034 ac.	
	TOTAL: 0.101 ac.	
	Pond	Riparian Wetland
	P-#1 0.314 ac.	RW-#1 0.111 ac.
	P-#2 1.119 ac.	RW-#2 0.081 ac.
	TOTAL: 2.433 ac.	RW-#3 1.316 ac.
		TOTAL: 1.508 ac.
		TOTAL: 5.637 ac.

CLASSIFICATION	EXISTING ACREAGE
Wetland Swale	0.719 ac.
Seasonal Wetland	0.101 ac.
Pond	2.433 ac.
Intermittent Drainage	0.063 ac.
Seep	0.326 ac.
Riparian Wetland	1.508 ac.
Secret Ravine	0.487 ac.
TOTAL:	5.637 ac.

**NOTES**

Green project acreage: 5.637

This exhibit depicts information and data produced in strict accord with the U.S. Army Corps of Engineers wetland delineation methods described in the 1987 Corps of Engineers Wetland Delineation Manual and conforms to specifications per the Sacramento Corps District. However, wetland boundaries have not been legally surveyed and may be subject to minor adjustments if exact locations are required.



ROCKLIN 105

WETLAND DELINEATION<sup>1</sup>

<sup>1</sup> Subject to U.S. Army Corps of Engineers verification.

DATE: 28 February 2002  
DRAWN BY: JT, TP  
CHECKED BY: JT, TP  
WETLAND VERIFICATION LETTER DATE:

REVISION: 12/31/03  
SCALE: 1"=100'  
MSL: A1

FILE NAME: R105-WD.DWG  
PROJECT NO: 2001-043

**ECORP Consulting, Inc.**  
ENVIRONMENTAL CONSULTANTS

2280 Douglas Blvd., Suite 100  
Roseville, CA 95661  
Ph: 916-758-8100

2100 Embarcadero, Suite 105  
Oakland, CA 94606  
Ph: 510-434-0150

WETLAND DELINEATION REPORT

FOR THE

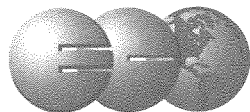
**ROCKLIN 105 PROPERTY**

PLACER COUNTY, CA

APRIL 15, 2003

*PREPARED FOR:*

**SIERRA HOLDINGS, LLC**



**ECORP Consulting, Inc.**  
ENVIRONMENTAL CONSULTANTS

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**ROCKLIN 105**  
WETLAND DELINEATION

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ATTACHMENTS

- Attachment A – Wetland Delineation Data Sheets
- Attachment B – Plant List
- Attachment C – Wetland Delineation Map

## 1.0 INTRODUCTION

On behalf of Sierra Holdings, LLC, ECORP Consulting, Inc. has conducted a wetland delineation of the Rocklin 105 property, located in the City of Rocklin, Placer County, California.

The project area is located south of Interstate 80, east of Sierra College Boulevard, and north of Secret Ravine and corresponds to a portion of Section 16 of Township 11 North, Range 7 East of the "Rocklin, California" 7.5 minute quadrangle (U.S. Department of the Interior, Geological Survey Photorevised 1981) (Figure 1 – *Project Site and Vicinity*).

### APPLICANT:

Attn: Mr. Chris Vrame  
Sierra Holdings, Inc.  
3600 American River Dr., Suite 105  
Sacramento, CA 95864  
Phone: (916) 974-3355  
Fax: (916) 974-3390

### AGENT:

Attn: Ms. Sarah Egan  
ECORP Consulting, Inc.  
2260 Douglas Boulevard, Suite 160  
Roseville, California 95661  
Phone: (916) 782-9100  
Fax: (916) 782-9134

## 2.0 SURVEY METHODOLOGY

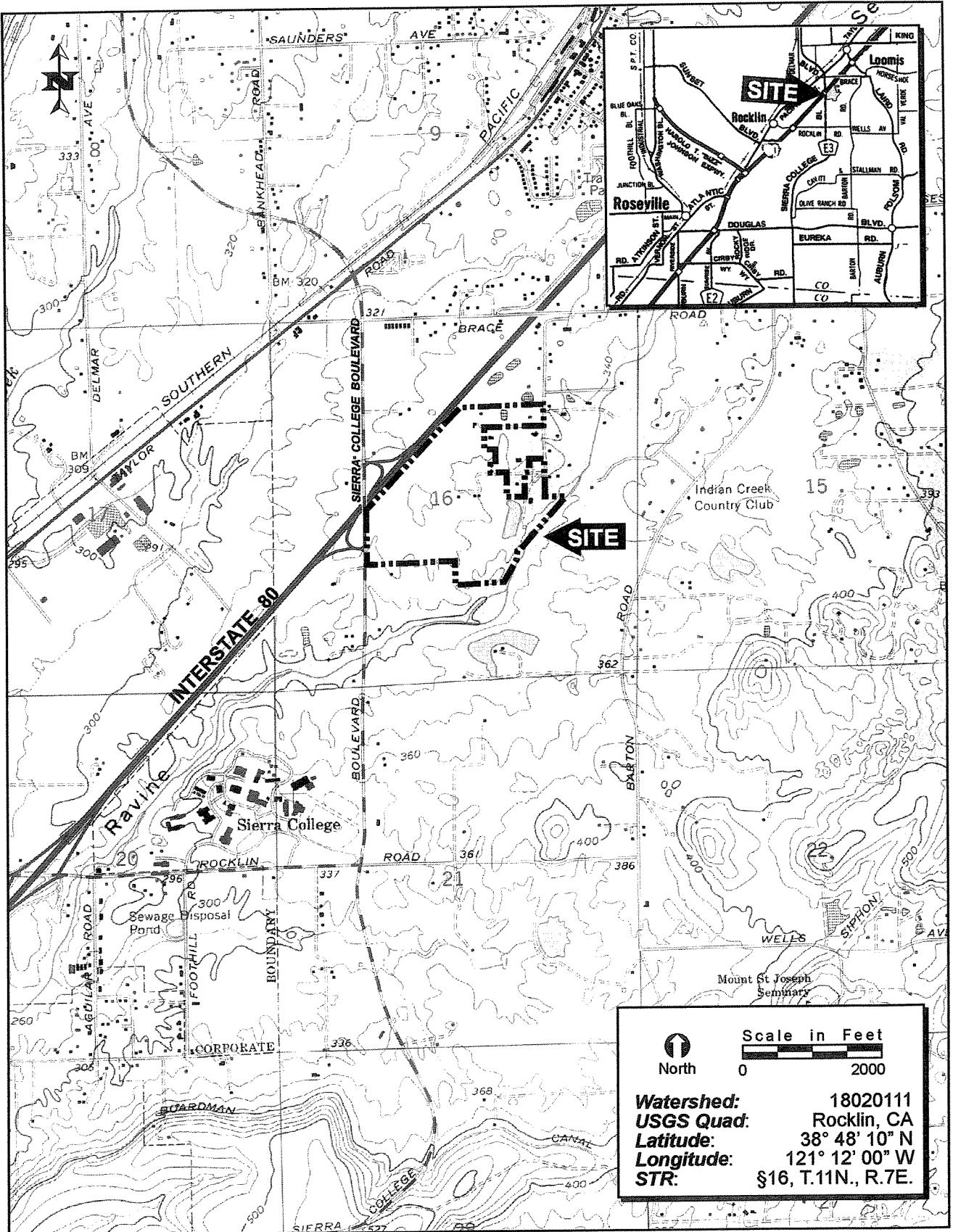
The wetland delineation was conducted on 4 June 2001; 18, 19, 21 September 2001; and 6 February 2002. ECORP Consulting, Inc. biologists Sarah Egan and Keith Kwan walked transects of the property for the purpose of identifying wetlands/waters under the jurisdiction of the U.S. Army Corps of Engineers.

This wetland delineation was conducted in accordance with the *Corps of Engineers Wetlands Delineation Manual* (Environmental Laboratory 1987). A black and white aerial photograph (1"=200', dated 29 March 1995), was used in conjunction with a map depicting site topography. This detailed topography was utilized to assist with mapping and ground-truthing due to the canopy cover over some of the wetland features at the site. A *Munsell Soil Color Chart* (Kollmorgen Instruments Corp. 1990) was used to identify hydric soils in the field and the *Jepson Manual* (Hickman 1994) was used for plant identification.

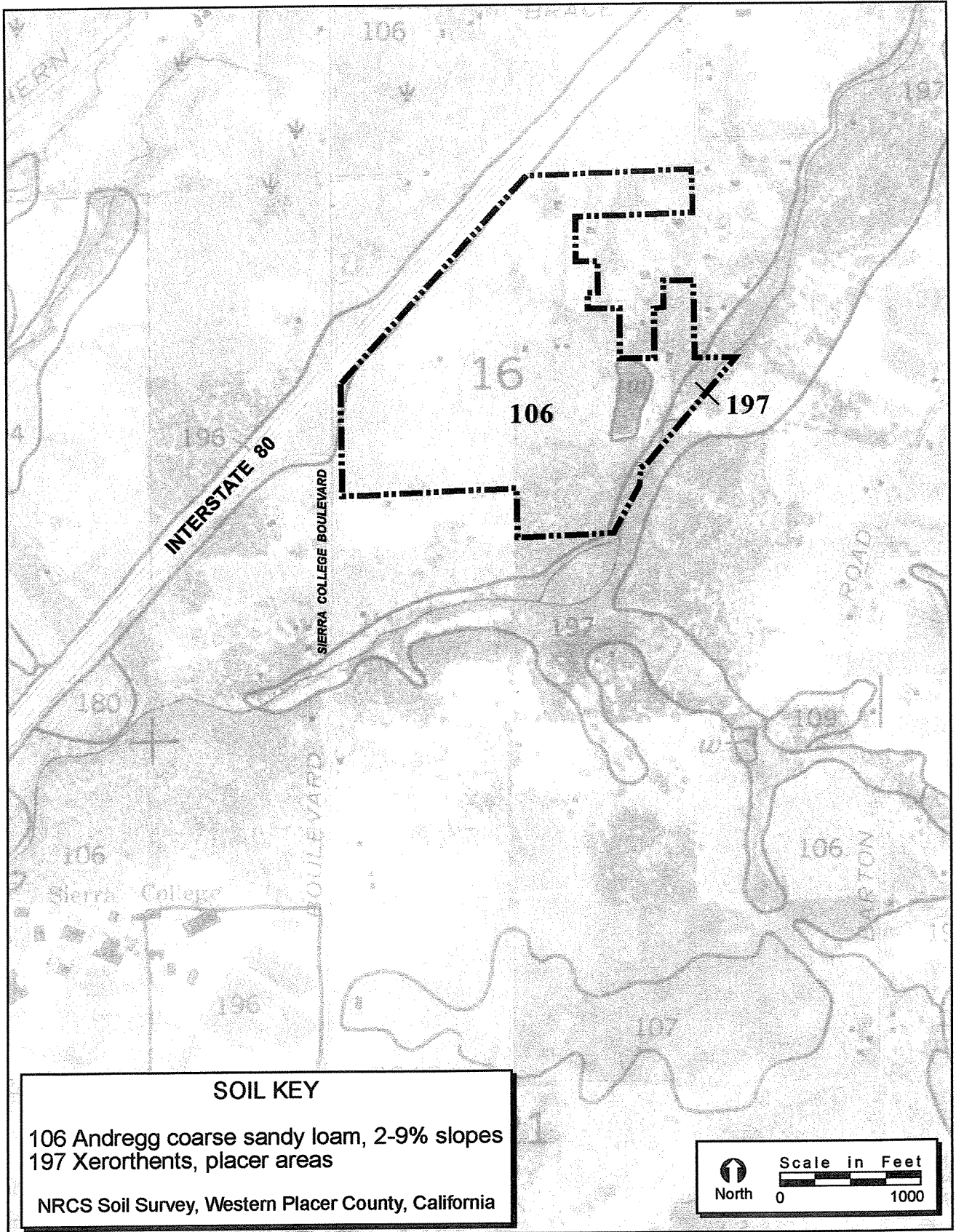
## 3.0 EXISTING SITE CONDITIONS

The site is comprised of gently to sloping to flat terrain, and is situated at an elevation of approximately 300 to 360 feet above mean sea level. The predominant soil type on the Rocklin 105 property is Andregg coarse sandy loam, 2 to 9% slopes, Placer County soil survey map unit 106 (Figure 2 – *NRCS Soil Types*). This soil type is a moderately deep, gently rolling, well drained soil underlain by weathered granitic bedrock. With respect to the wetland delineation, Andregg is not a hydric component, however this soil type has unnamed inclusions in drainageways that are hydric. The other soil type for the site is Xerorthents, placer areas, Placer County soil survey map unit 197. This soil type consists of stony cobbly, and gravelly





**FIGURE 1. Project Site and Vicinity**



**FIGURE 2. NRCS Soil Types**

material commonly adjacent to streams that have been placer mined. Xerorthents is also not a hydric component and also has unnamed hydric inclusions in drainageways.

In general, the western portion of the site is annual grassland dotted with rock outcroppings, boulders, several seasonal wetland features, and the occasional tree/shrub. Herbaceous species observed include soft chess (*Bromus hordeaceus*), riggut brome (*Bromus diandrus*), Italian ryegrass (*Lolium multiflorum*), Mediterranean barley (*Hordeum marinum*), Medusahead grass (*Taeniatherum caput-medusae*), filaree (*Erodium botrys*), and yellow-star thistle (*Centaurea solstitialis*). This differs from the eastern portion of the site, which contains most of the wetlands on the site (discussed below), and consists primarily of oak woodland and riparian habitats. Species that form the overstory and understory communities include live oak (*Quercus wislizenii*), blue oak (*Quercus douglasii*), gray pine (*Pinus sabiniana*), hoary coffeeberry (*Rhamnus tomentella*), toyon (*Heteromeles arbutifolia*), buck brush (*Ceanothus cuneatus*), coyote bush (*Baccharis pilularis*), poison oak (*Toxicodendron diversilobum*) and buckeye (*Aesculus californica*). The site's land use includes private residences, livestock grazing, and undeveloped lands.

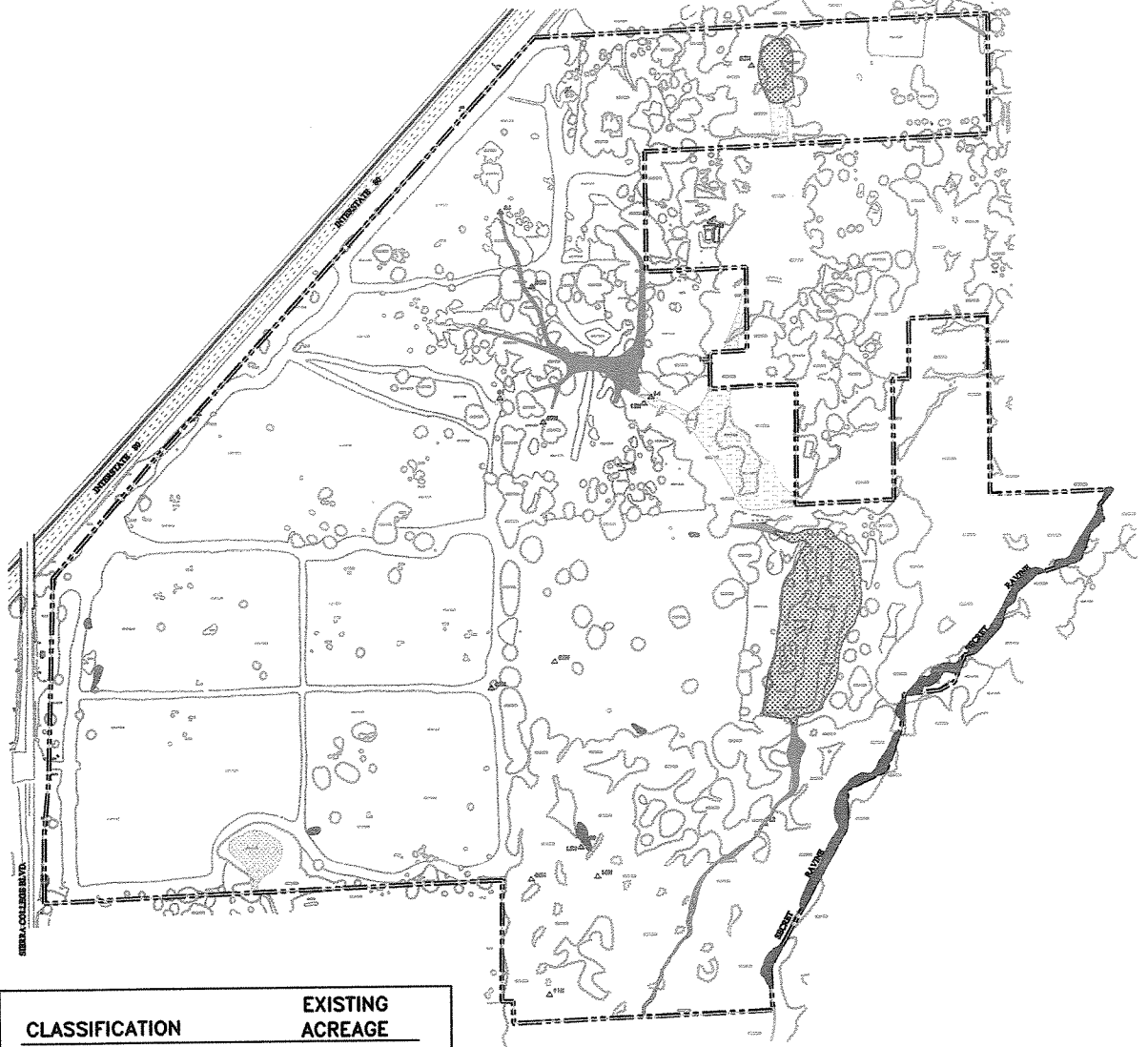
#### 4.0 WETLANDS AND WATERS OF THE U.S.

A wetland delineation was conducted in accordance with the *Corps of Engineers Wetlands Delineation Manual* (Environmental Laboratory 1987). The project site was walked to determine the extent of potential waters of the U. S. within the project area (Figure 3 – *Wetland Delineation*). Sixteen three parameter data points were taken throughout the site and are provided as Attachment A. A corresponding list of plants observed at data points is presented in Attachment B. A full size wetland delineation map is included as Attachment C.

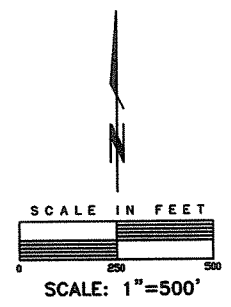
A total of 5.356 acres of potentially jurisdictional wetlands/waters have been identified. This includes 0.719 acre of wetland swale, 0.101 acre of seasonal wetland, 2.433 acre of pond, 0.063 acre of intermittent drainage, 0.326 acre of seep, 1.227 acres of riparian wetland, 0.487 acre of Secret Ravine. These acreages are shown in Table 1. Existing Wetland Acreages.

**Table 1. Existing Wetland Acreages**

Wetland/Waters Type	Acreage
<b>Wetlands</b>	
Wetland Swale	0.719
Seasonal Wetland	0.101
Seep	0.326
Riparian Wetland	1.227
<b>Other Waters</b>	
Pond	2.433
Intermittent Drainage	0.063
Secret Ravine	0.487
<b>TOTAL</b>	<b>5.356</b>



CLASSIFICATION	EXISTING ACREAGE
Wetland Swale	0.719 ac.
Seasonal Wetland	0.101 ac.
Pond	2.433 ac.
Intermittent Drainage	0.063 ac.
Seep	0.326 ac.
Riparian Wetland	1.227 ac.
Secret Ravine	0.487 ac.
<b>TOTAL:</b>	<b>5.356 ac.</b>



FILENAME: e:\2001043\105-wd&xl.dwg Date: 3/07/02

Figure 3. Wetland Delineation

**ECORP Consulting, Inc.**  
 ENVIRONMENTAL CONSULTANTS

## 4.1 Wetlands

- **Wetland Swale**

The areas on the property considered wetland swale are typically topographic drainages that were associated with scrub vegetation such as Himalaya berry (*Rubus discolor*) and willows (*Salix* sp.). These swales primarily convey water during storm events, however portions remain saturated into the growing season, support some hydrophytic vegetation, and exhibit hydric soil characteristics.

- **Seasonal Wetland**

Seasonal wetlands occurs in several locations throughout the site. They exist as shallow depressions underlain by slowly permeable soils. These depressions follow a seasonal hydrological cycle. As soils saturate and standing water accumulates, the wetland enters the "aquatic" phase, which is then followed by a "drying" and "drought" phase. These depressions may remain saturated and/or inundated only during the "wet" period and provide habitat for numerous species during this phase. The seasonal wetlands on the site support species such as Italian ryegrass (*Lolium multiflorum*), Mediterranean barley (*Hordeum marinum*), and annual beard grass (*Polypogon monspeliensis*).

- **Seep**

Seeps occur where groundwater percolates up to the soil surface. Inundation may or may not occur, but the area remains saturated for most of the year depending on the seasonal rainfall. The two seeps on the site differ in species composition, one dominated by willows (*Salix* sp.), and the other dominated by herbaceous species, but are similar hydrologically.

- **Riparian Wetland**

The riparian wetlands occur where woody vegetation has become established in topographic drainages that remain wet through the majority of the year. This is partly because of outflow from the smaller pond to the north and a small pond that is just off-site, both of which are artificially augmented. Other ephemeral wetland swales (previously discussed) also flow into the riparian wetland. Plant species found within this feature are similar to those described above in the wetland swale section, with the exception of the occasional pocket of cattail within the riparian corridor.

## 4.2 Other Waters

- **Pond**

The two ponds on the site are fed by a localized watershed during the wet season and are characterized by relatively moderate flows during winter. These flows are augmented year round by water actively pumped into the ponds. Dominant vegetation within the ponds include species which require extended periods of inundation and/or saturation, such as cattails (*Typha*

sp.), mosquito fern (*Azolla filiculoides*), spikerush (*Eleocharis macrostachya*), joint paspalum (*Paspalum distichum*), and Baltic rush (*Juncus balticus*). The large pond to the south outfalls into a wetland swale, through an intermittent drainage, and eventually to Secret Ravine.

- **Intermittent Drainage**

As previously mentioned, the intermittent drainage carries water from the large pond to Secret Ravine. In several places it is bordered by a fringe of seasonal wetland vegetation, but intermittent drainages are usually characterized by narrowly cut channels with rocky substrates and little channel vegetation. Standing water is present only during and shortly after storm events.

- **Secret Ravine**

Creeks typically occur in low topographic areas and capture runoff from adjacent lands. Secret Ravine lies on the southeastern boundary of the Rocklin 105 property, and is a perennial feature that is tributary to Miner's Ravine, Dry Creek, and ultimately to the Sacramento River via the Natomas East Main Drainage Canal. Secret Ravine is a well-defined drainage with bed and bank and a corridor of riparian and oak woodland vegetation. Species along the corridor include willow, Himalaya berry, white alder (*Alnus rhombifolia*), Fremont's cottonwood (*Populus fremontii*), interior live oak (*Quercus wislizenii*), buttonwillow (*Cephalanthus occidentalis*).

#### **4.3 Interstate or Foreign Commerce Connection**

The majority of the wetland/waters features on the site are directly connected to Secret Ravine. Detailed topography of the site was consulted regarding features that are not directly connected to Secret Ravine. The topography indicates that in storm events water from these wetlands would likely either sheetflow or flow through off-site features to Secret Ravine, south of the site. These would then be considered adjacent. Secret Ravine flows to Miner's Ravine, which in turn flows to Dry Creek, and ultimately to the Sacramento River (a navigable water) via the Natomas East Main Drainage Canal. This then constitutes an interstate or foreign commerce connection.

#### **5.0 CONCLUSION**

A total of 5.356 acres of potentially jurisdictional waters of the U. S. mapped for the Rocklin 105 property include wetlands and other waters. This includes 0.719 acre of wetland swale, 0.101 acre of seasonal wetland, 2.433 acre of pond, 0.063 acre of intermittent drainage, 0.326 acre of seep, 1.227 acres of riparian wetland, 0.487 acre of Secret Ravine.

## 6.0 REFERENCES

- Environmental Laboratory, Department of the Army. 1987. Corps of Engineers Wetland Delineation Manual (Technical Report Y-87-1). U.S. Army Corps of Engineers. Waterways Experimental Station. Vicksburg, Mississippi.
- Hickman, James C., ed. 1993. *The Jepson Manual, Higher Plants of California*. University of California Press. Berkeley, California.
- Munsell. 1998. Munsell Soil Color Charts. GretagMacbeth. New Windsor, New York.
- Reed, P.B., Jr. 1988. National List of Plant Species that Occur in Wetlands: California Region 0. (Biological Report 88[26.10]). U.S. Fish and Wildlife Service. Fort Collins, Colorado.
- Soil Survey of Placer County, California, Western Part* (U. S. Department of Agriculture, Soil Conservation Service 1980).
- U.S. Department of Agriculture-Soil Conservation Service (USDA-SCS). 1992. Official List of Hydric Soil Map Units for Placer County, California, Western Part.
- U.S. Fish and Wildlife Service. 1996. National List of Vascular Plant Species that Occur in Wetlands: 1996 National Summary.

## **LIST OF ATTACHMENTS**

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Attachment A – Wetland Delineation Data Sheets

Attachment B – Plants Observed at Data Points

Attachment C – Wetland Delineation Map



# **ATTACHMENT A**

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## Wetland Delineation Data Sheets

Project/Site: Rocklin 105 Date: 6/4/01 Sample Point: 1  
 Applicant/Owner: Sierra Holdings Field Investigator(s): Sarah Egan  
 County: Placer State: CA Plant Community: Annual Grassland/Oak Wood.  
 Quad(s): Rocklin (7.5 min) Section/Township/Range: 16 T11N R7E  
 Do normal environmental conditions exist site? Yes  No  If no, explain: \_\_\_\_\_  
 Atypical Situation? Yes  No  Explain: \_\_\_\_\_  
 Is this a potential Problem Area? Yes  No  Explain: \_\_\_\_\_

**VEGETATION**

HYDROPHYTIC VEGETATION? Yes  No

Dominant Species	Ind. Status	Stratum	Rel. % Cover	Dominant Species	Ind. Status	Stratum	Rel. % Cover
1) <u>Jun xip</u>	<u>OBL</u>	<u>Herb</u>	<u>80</u>	5) _____	_____	_____	_____
2) <u>Des dan?</u>	<u>FACW</u>	<u>Herb</u>	<u>20</u>	6) _____	_____	_____	_____
3) _____	_____	_____	_____	7) _____	_____	_____	_____
4) _____	_____	_____	_____	8) _____	_____	_____	_____

Percentage of dominant species that are OBL, FACW, and/or FAC [excluding FAC-]: 2/2 = 100 %

Comments: mowed

**HYDROLOGY**

WETLAND HYDROLOGY? Yes  No

Recorded Data: Yes  No  If yes, \_\_\_\_\_  
 Depth of surface water: \_\_\_\_\_ (in.) Depth to free water in pit: \_\_\_\_\_ (in.) Depth to saturated soil: \_\_\_\_\_ (in.)  
 Primary Indicators:  Inundated  Saturated in Upper 12 in.  Water Marks  Drift Lines  Sediment Deposits  Drainage Patterns in Wetland  
 Secondary Indicators (2 or more required):  
 Oxidized Root Channels in Upper 12 in.  Water-stained Leaves  Local Soil Survey Data  FAC-Neutral Test  Other \_\_\_\_\_  
 Comments: soil not saturated, but damp

**SOILS**

HYDRIC SOILS? Yes  No

Series/Phase: 106 - Andregg Coarse sandy loam 2-9% slopes Drainage Class: well drained  
 Taxonomy [Subgroup]: Andregg coarse loamy, mixed, thermic, Typic Haploxerolls Confirm Map Type: Yes  No   
 Histosol  Histic Epipedon  Sulfidic Odor  Aquic Moisture Regime  Reducing Conditions  Gleyed/Low Chroma Colors  Concretion  
 High Organic Content in Surface Layer in Sandy Soils  Organic Streaking in Sandy Soils  Listed on Hydric Soils List  Other \_\_\_\_\_  
 Inclusions [Series/Phase]: Unnamed hydric inclusions in drainageways On Hydric Soils List: Yes  No

Depth (in.)	Horizon	Matrix Color	Mottle Color	Mottle (Abund/Contrast/Size)	Texture, Concretions, Structure
<u>12</u>	_____	<u>10yr 3/1</u>	<u>-</u>	<u>-</u>	<u>-</u>
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____

Comments: sandy

**\* DECISION \***

WETLAND / WATERS DETERMINATION? Yes  No

Rationale: meets all criteria  
 General comments: no obvious basin, hole easy to dig  
 Wetland Type: seep

## HERBACEOUS COVER / DOMINANCE WORK SHEET

<u>Species Observed</u>	<u>Actual Cover</u>	<u>Relative Cover</u>	
Des dan	20	20	<u>COVER:</u> Vegetation <u>100</u> Bare Ground                  _____ Rocks                            _____ Other                            _____ TOTAL =                                100%
Jun xip	80	80	
TOTAL SUM (Σ) = _____		100%	

<u>Species (Descending Order)</u>	<u>Relative Cover</u>	<u>Cumulative Cover</u>	<u>Indicator Status</u>	<u>Dominants</u>
Jun xip	80	80	OBL	X
Des dan	20	100	FACW	X
TOTAL SUM (Σ) = _____		100%		

ENVIRONMENTAL CONSULTANTS

Project/Site: Rocklin 105 Date: 6/4/01 Sample Point: 2N
Applicant/Owner: Sierra Holdings Field Investigator(s): Sarah Egan
County: Placer State: CA Plant Community: Annual Grassland/Oak Wood.
Quad(s): Rocklin (7.5 min) Section/Township/Range: 16 T11N R7E
Do normal environmental conditions exist site? Yes [ ] No [ ] If no, explain:
Atypical Situation? Yes [ ] No [ ] Explain:
Is this a potential Problem Area? Yes [ ] No [ ] Explain:

HYDROPHYTIC VEGETATION? Yes [ ] No [x]

VEGETATION

Table with 8 columns: Dominant Species, Ind. Status, Stratum, Rel. % Cover, Dominant Species, Ind. Status, Stratum, Rel. % Cover. Row 1: Jun bal, OBL, herb, 65. Row 2: Bro hor, FACU, herb, 35.

Percentage of dominant species that are OBL, FACW, and/or FAC [excluding FAC-]: 1/2 = 50 %

Comments: mowed - upland grasses present

WETLAND HYDROLOGY? Yes [ ] No [x]

HYDROLOGY

Recorded Data: Yes [ ] No [x] If yes,
Depth of surface water: (in.) Depth to free water in pit: (in.) Depth to saturated soil: (in.)
Primary Indicators: [ ] Inundated [ ] Saturated in Upper 12 in. [ ] Water Marks [ ] Drift Lines [ ] Sediment Deposits [ ] Drainage Patterns in Wetland
Secondary Indicators (2 or more required):
[ ] Oxidized Root Channels in Upper 12 in. [ ] Water-stained Leaves [ ] Local Soil Survey Data [ ] FAC-Neutral Test [ ] Other
Comments: compare with pt 1 - similar topography different hydrology

HYDRIC SOILS? Yes [ ] No [x]

SOILS

Series/Phase: 106-Andregg Coarse sandy loam 2-9% slopes Drainage Class: well drained
Taxonomy [Subgroup]: Andregg coarse loamy, mixed, thermic, Typic Haploxerolls Confirm Map Type: Yes [x] No [ ]
[ ] Histosol [ ] Histic Epipedon [ ] Sulfidic Odor [ ] Aquic Moisture Regime [ ] Reducing Conditions [ ] Gleyed/Low Chroma Colors [ ] Concretions
[ ] High Organic Content in Surface Layer in Sandy Soils [ ] Organic Streaking in Sandy Soils [ ] Listed on Hydric Soils List [ ] Other
Inclusions [Series/Phase]: Unnamed hydric inclusions in drainageways On Hydric Soils List: Yes [x] No [ ]
Depth (in.) Horizon Matrix Color Mottle Color Mottle (Abund/Contrast/Size) Texture, Concretions, Structure
8 - 10 yr 3/3

Comments: hard dry difficult to dig - contrasts from pt 1

WETLAND / WATERS DETERMINATION? Yes [ ] No [x]

\* DECISION \*

Rationale: Does not meet all criteria

General comments: Wetland Type:

# HERBACEOUS COVER / DOMINANCE WORK SHEET

Species Observed	Actual Cover	Relative Cover
Jun bal	40	60
Hem fit	5	5
Bro hor (mowed)	35	35
<b>TOTAL SUM (Σ) =</b>	35	100%

COVER:

Vegetation	100
Bare Ground	
Rocks	
Other	
<b>TOTAL =</b>	100%

Species (Descending Order)	Relative Cover	Cumulative Cover	Indicator Status	Dominants
Jun bal	60	60	OBL	X
Bro hor	35	95	FACU	X
Hem fit	5			
<b>TOTAL SUM (Σ) =</b>	100%			

**ECORP Consulting, Inc.**  
 ENVIRONMENTAL CONSULTANTS

**ROUTINE WETLAND DELINEATION**

Project/Site: Rocklin 105 Date: 9/18/01 Sample Point: 3N  
 Applicant/Owner: Sierra Holdings Field Investigator(s): Sarah Egan  
 County: Placer State: CA Plant Community: Annual Grassland/Oak Wood.  
 Quad(s): Rocklin (7.5 min) Section/Township/Range: 16 T1N RTE  
 Do normal environmental conditions exist site? Yes  No  If no, explain: \_\_\_\_\_  
 Atypical Situation? Yes  No  Explain: \_\_\_\_\_  
 Is this a potential Problem Area? Yes  No  Explain: \_\_\_\_\_

**HYDROPHYTIC VEGETATION? Yes  No**

**VEGETATION**

Dominant Species	Ind. Status	Stratum	Rel. % Cover	Dominant Species	Ind. Status	Stratum	Rel. % Cover
1) <u>Qr Lob</u>	<u>FAC*</u>	<u>sap</u>	<u>100</u>	5) _____	_____	_____	_____
2) <u>Pop fre</u>	<u>FACW</u>	<u>tree</u>	<u>100</u>	6) _____	_____	_____	_____
3) <u>Ave fat</u>	<u>MPL</u>	<u>herb</u>	<u>40</u>	7) _____	_____	_____	_____
4) <u>Bro hor</u>	<u>FACU</u>	<u>herb</u>	<u>40</u>	8) _____	_____	_____	_____

Percentage of dominant species that are OBL, FACW, and/or FAC [excluding FAC-]: 2/4 = 50 %

Comments: Q. lobata uncertain wetland plant

**WETLAND HYDROLOGY? Yes  No**

**HYDROLOGY**

Recorded Data: Yes  No  If yes, \_\_\_\_\_  
 Depth of surface water: \_\_\_\_\_ (in.) Depth to free water in pit: \_\_\_\_\_ (in.) Depth to saturated soil: \_\_\_\_\_ (in.)  
 Primary Indicators:  Inundated  Saturated in Upper 12 in.  Water Marks  Drift Lines  Sediment Deposits  Drainage Patterns in Wetland  
 Secondary Indicators (2 or more required):  
 Oxidized Root Channels in Upper 12 in.  Water-stained Leaves  Local Soil Survey Data  FAC-Neutral Test  Other \_\_\_\_\_

Comments: no topography

**HYDRIC SOILS? Yes  No**

**SOILS**

Series/Phase: 106 - Andregg Coarse sandy loam 2-9% slopes Drainage Class: well drained  
 Taxonomy [Subgroup]: Andregg coarse loamy, mixed, thermic, Typic Haploxerolls Confirm Map Type: Yes  No   
 Histosol  Histic Epipedon  Sulfidic Odor  Aquic Moisture Regime  Reducing Conditions  Gleyed/Low Chroma Colors  Concretions  
 High Organic Content in Surface Layer in Sandy Soils  Organic Streaking in Sandy Soils  Listed on Hydric Soils List  Other \_\_\_\_\_  
 Inclusions [Series/Phase]: Unnamed hydric inclusions in drainageways On Hydric Soils List: Yes  No

Depth (in.)	Horizon	Matrix Color	Mottle Color	Mottle (Abund/Contrast/Size)	Texture, Concretions, Structure
<u>6</u>		<u>7.5 yr 3/2.5</u>	<u>7.5 yr 4/4</u>	<u>C/D/M</u>	<u>sandy loam</u>
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____

Comments: \_\_\_\_\_

**WETLAND / WATERS DETERMINATION? Yes  No**

**\* DECISION \***

Rationale: no hydrology - all criteria not met  
 General comments: soils close - no hydrology also dominance of wetland plants skewed by ~~drainage~~ suppling layers Wetland Type: \_\_\_\_\_



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**ROUTINE WETLAND DELINEATION**

Project/Site: Rocklin 105 Date: 9/18/01 Sample Point: 4  
 Applicant/Owner: Sierra Holdings Field Investigator(s): Sarah Egan  
 County: Placer State: CA Plant Community: Annual Grassland/Oak Wood.  
 Quad(s): Rocklin (7.5 min) Section/Township/Range: 16 T11N R7E  
 Do normal environmental conditions exist site? Yes  No  If no, explain: \_\_\_\_\_  
 Atypical Situation? Yes  No  Explain: \_\_\_\_\_  
 Is this a potential Problem Area? Yes  No  Explain: \_\_\_\_\_

HYDROPHYTIC VEGETATION? Yes  No

**VEGETATION**

Dominant Species	Ind. Status	Stratum	Rel. % Cover	Dominant Species	Ind. Status	Stratum	Rel. % Cover
1) <u>Lol mul</u>	<u>FAC</u>	<u>herb</u>	<u>45</u>	5) _____	_____	_____	_____
2) <u>Bro hor</u>	<u>UPL</u>	<u>herb</u>	<u>45</u>	6) _____	_____	_____	_____
3) _____	_____	_____	_____	7) _____	_____	_____	_____
4) _____	_____	_____	_____	8) _____	_____	_____	_____

Percentage of dominant species that are OBL, FACW, and/or FAC [excluding FAC-]: 1/2 = 50 %

Comments: marginal plants

**HYDROLOGY**

WETLAND HYDROLOGY? Yes  No

Recorded Data: Yes  No  If yes, \_\_\_\_\_  
 Depth of surface water: \_\_\_\_\_ (in.) Depth to free water in pit: \_\_\_\_\_ (in.) Depth to saturated soil: \_\_\_\_\_ (in.)  
 Primary Indicators:  Inundated  Saturated in Upper 12 in.  Water Marks  Drift Lines  Sediment Deposits  Drainage Patterns in Wetland  
 Secondary Indicators (2 or more required):  
 Oxidized Root Channels in Upper 12 in.  Water-stained Leaves  Local Soil Survey Data  FAC-Neutral Test  Other \_\_\_\_\_  
 Comments: slight topography - swale starts here

HYDRIC SOILS? Yes  No

**SOILS**

Series/Phase: 106 - Andregg Coarse sandy loam 2-9% slopes Drainage Class: well drained  
 Taxonomy [Subgroup]: Andregg coarse loamy, mixed, thermic, Typic Haploxerolls Confirm Map Type: Yes  No   
 Histosol  Histic Epipedon  Sulfidic Odor  Aquic Moisture Regime  Reducing Conditions  Gleyed/Low Chroma Colors  Concretion  
 High Organic Content in Surface Layer in Sandy Soils  Organic Streaking in Sandy Soils  Listed on Hydric Soils List  Other \_\_\_\_\_  
 Inclusions [Series/Phase]: Unnamed hydric inclusions in drainageways On Hydric Soils List: Yes  No   

Depth (in.)	Horizon	Matrix Color	Mottle Color	Mottle (Abund/Contrast/Size)	Texture, Concretions, Structure
<u>4</u>	<u>herb</u>	<u>10yr 3/2</u>	<u>7.5yr 4/4</u>	<u>m/D/F</u>	<u>sandy</u>
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____

  
 Comments: soil very hard - difficult to dig

WETLAND / WATERS DETERMINATION? Yes  No

**\* DECISION \***

Rationale: all criteria met  
 General comments: just barely wetland - down yes - up no  
 Wetland Type: wetland swale





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**ROUTINE WETLAND DELINEATION**

Project/Site: Rocklin 105 Date: 9/19/01 Sample Point: 5N  
 Applicant/Owner: Sierra Holdings Field Investigator(s): Sarah Egan / K. Kwan  
 County: Placer State: CA Plant Community: Annual Grassland/Oak Wood.  
 Quad(s): Rocklin (7.5 min) Section/Township/Range: 16 T11N RTE  
 Do normal environmental conditions exist site? Yes  No  If no, explain: \_\_\_\_\_  
 Atypical Situation? Yes  No  Explain: \_\_\_\_\_  
 Is this a potential Problem Area? Yes  No  Explain: \_\_\_\_\_

**HYDROPHYTIC VEGETATION? Yes  No**

**VEGETATION**

Dominant Species	Ind. Status	Stratum	Rel. % Cover	Dominant Species	Ind. Status	Stratum	Rel. % Cover
1) <u>Bro car</u>	<u>NL</u>	<u>herb</u>	<u>80</u>	5) _____	_____	_____	_____
2) _____	_____	_____	_____	6) _____	_____	_____	_____
3) _____	_____	_____	_____	7) _____	_____	_____	_____
4) _____	_____	_____	_____	8) _____	_____	_____	_____

Percentage of dominant species that are OBL, FACW, and/or FAC [excluding FAC-]: 0% = 0%

Comments: \_\_\_\_\_

**WETLAND HYDROLOGY? Yes  No**

**HYDROLOGY**

Recorded Data: Yes  No  If yes, \_\_\_\_\_  
 Depth of surface water: \_\_\_\_\_ (in.) Depth to free water in pit: \_\_\_\_\_ (in.) Depth to saturated soil: \_\_\_\_\_ (in.)  
 Primary Indicators:  Inundated  Saturated in Upper 12 in.  Water Marks  Drift Lines  Sediment Deposits  Drainage Patterns in Wetland  
 Secondary Indicators (2 or more required):  
 Oxidized Root Channels in Upper 12 in.  Water-stained Leaves  Local Soil Survey Data  FAC-Neutral Test  Other \_\_\_\_\_  
 Comments: no aparent above ground or surface hydrology

**HYDRIC SOILS? Yes  No**

**SOILS**

Series/Phase: 106 - Andregg Coarse sandy loam 2-9% slopes Drainage Class: well drained  
 Taxonomy [Subgroup]: Andregg coarse loamy, mixed, thermic, Typic Haploxerolls Confirm Map Type: Yes  No   
 Histosol  Histic Epipedon  Sulfidic Odor  Aquic Moisture Regime  Reducing Conditions  Gleyed/Low Chroma Colors  Concretion  
 High Organic Content in Surface Layer in Sandy Soils  Organic Streaking in Sandy Soils  Listed on Hydric Soils List  Other \_\_\_\_\_  
 Inclusions [Series/Phase]: Unnamed hydric inclusions in drainageways On Hydric Soils List: Yes  No   

Depth (in.)	Horizon	Matrix Color	Mottle Color	Mottle (Abund/Contrast/Size)	Texture, Concretions, Structure
<u>4</u>	<u>herb</u>	<u>10 yr 3/1</u>	<u>—</u>	<u>—</u>	<u>sandy loam</u>
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____

Comments: difficult to dig hole

**WETLAND / WATERS DETERMINATION? Yes  No**

**\* DECISION \***

Rationale: all criteria not met  
 General comments: swale does not extend this wide  
 Wetland Type: \_\_\_\_\_

# HERBACEOUS COVER / DOMINANCE WORK SHEET

<u>Species Observed</u>	<u>Actual Cover</u>	<u>Relative Cover</u>
Bro car	80	80
Rum cri	5	5
Jun bal	10	10
Rub dis	5	5
TOTAL SUM (Σ) =		100%

**COVER:**

Vegetation	_____
Bare Ground	_____
Rocks	_____
Other	_____
TOTAL =	100%

<u>Species (Descending Order)</u>	<u>Relative Cover</u>	<u>Cumulative Cover</u>	<u>Indicator Status</u>	<u>Dominants</u>
Bro car	80	80	NL (UPL)	X
Jun bal	10	<del>80</del>		
Rum cri	5			
Rub dis	5			
TOTAL SUM (Σ) =				

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**ROUTINE WETLAND DELINEATION**

Project/Site: Rocklin 105 Date: 9/19/01 Sample Point: 6N  
 Applicant/Owner: Sierra Holdings Field Investigator(s): Sarah Egan / K. Kwan  
 County: Placer State: CA Plant Community: Annual Grassland/Oak Wood.  
 Quad(s): Rocklin (7.5 min) Section/Township/Range: 16 T11N RTE  
 Do normal environmental conditions exist site? Yes  No  If no, explain: \_\_\_\_\_  
 Atypical Situation? Yes  No  Explain: \_\_\_\_\_  
 Is this a potential Problem Area? Yes  No  Explain: \_\_\_\_\_

**HYDROPHYTIC VEGETATION?** Yes  No

**VEGETATION**

Dominant Species	Ind. Status	Stratum	Rel. % Cover	Dominant Species	Ind. Status	Stratum	Rel. % Cover
1) <u>Bro her</u>	<u>UPL</u>	<u>herb</u>	<u>45</u>	5) _____	_____	_____	_____
2) <u>Jun bal</u>	<u>OBL</u>	<u>herb</u>	<u>45</u>	6) _____	_____	_____	_____
3) _____	_____	_____	_____	7) _____	_____	_____	_____
4) _____	_____	_____	_____	8) _____	_____	_____	_____

Percentage of dominant species that are OBL, FACW, and/or FAC [excluding FAC-]: 1/2 = 50 %

Comments: grazed - horses

**WETLAND HYDROLOGY?** Yes  No

**HYDROLOGY**

Recorded Data: Yes  No  If yes, \_\_\_\_\_  
 Depth of surface water: ~ (in.) Depth to free water in pit: — (in.) Depth to saturated soil: — (in.)  
 Primary Indicators:  Inundated  Saturated in Upper 12 in.  Water Marks  Drift Lines  Sediment Deposits  Drainage Patterns in Wetland  
 Secondary Indicators (2 or more required):  
 Oxidized Root Channels in Upper 12 in.  Water-stained Leaves  Local Soil Survey Data  FAC-Neutral Test  Other \_\_\_\_\_  
 Comments: on a slope here - no basin - water runs off - no hoof prints

**HYDRIC SOILS?** Yes  No

**SOILS**

Series/Phase: 106 - Andregg Coarse sandy loam 2-9% slopes Drainage Class: well drained  
 Taxonomy [Subgroup]: Andregg coarse loamy, mixed, thermic, Typic Haploxerolls Confirm Map Type: Yes  No   
 Histosol  Histic Epipedon  Sulfidic Odor  Aquic Moisture Regime  Reducing Conditions  Gleyed/Low Chroma Colors  Concretion  
 High Organic Content in Surface Layer in Sandy Soils  Organic Streaking in Sandy Soils  Listed on Hydric Soils List  Other \_\_\_\_\_  
 Inclusions [Series/Phase]: Unnamed hydric inclusions in drainageways On Hydric Soils List: Yes  No   

Depth (in.)	Horizon	Matrix Color	Mottle Color	Mottle (Abund/Contrast/Size)	Texture, Concretions, Structure
<u>4</u>	<u>horb</u>	<u>10 3/2</u>	<u>no</u>	<u>—</u>	<u>~</u>
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____

Comments: soil pit difficult to dig

**WETLAND / WATERS DETERMINATION?** Yes  No

**\* DECISION \***

Rationale: all criteria not met  
 General comments: \_\_\_\_\_  
 Wetland Type: \_\_\_\_\_

# HERBACEOUS COVER / DOMINANCE WORK SHEET

<u>Species Observed</u>	<u>Actual Cover</u>	<u>Relative Cover</u>
Briz min	5	FACW <sup>-</sup>
Bro hor	45	UPL
Rum pul	5	FAC <sup>+</sup>
Jun bal	45	OBL
TOTAL SUM (Σ) =	100	100%

**COVER:**

Vegetation	100
Bare Ground	
Rocks	
Other	
TOTAL =	100%

<u>Species (Descending Order)</u>	<u>Relative Cover</u>	<u>Cumulative Cover</u>	<u>Indicator Status</u>	<u>Dominants</u>
Bro hor	45	45	UPL	x
Jun bal	45	90	FACW <sup>-</sup>	x
Briz min	5	-		
Rum pul	5			
TOTAL SUM (Σ) =	100%			

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**ROUTINE WETLAND DELINEATION**

Project/Site: Rocklin 105 Date: 9/19/01 Sample Point: 7N  
 Applicant/Owner: Sierra Holdings Field Investigator(s): Sarah Egan / K. Kwan  
 County: Placer State: CA Plant Community: Annual Grassland/Oak Wood.  
 Quad(s): Rocklin (7.5 min) Section/Township/Range: 16 T11N R7E  
 Do normal environmental conditions exist site? Yes  No  If no, explain: \_\_\_\_\_  
 Atypical Situation? Yes  No  Explain: \_\_\_\_\_  
 Is this a potential Problem Area? Yes  No  Explain: \_\_\_\_\_

**HYDROPHYTIC VEGETATION? Yes  No**

**VEGETATION**

Dominant Species	Ind. Status	Stratum	Rel. % Cover	Dominant Species	Ind. Status	Stratum	Rel. % Cover
1) <u>Bro her</u>			<u>75</u>	5) _____			
2) _____				6) _____			
3) _____				7) _____			
4) _____				8) _____			

Percentage of dominant species that are OBL, FACW, and/or FAC [excluding FAC-]: 0/1 = 0 %

Comments: \_\_\_\_\_

**WETLAND HYDROLOGY? Yes  No**

**HYDROLOGY**

Recorded Data: Yes  No  If yes, \_\_\_\_\_  
 Depth of surface water: \_\_\_\_\_ (in.) Depth to free water in pit: \_\_\_\_\_ (in.) Depth to saturated soil: \_\_\_\_\_ (in.)  
 Primary Indicators:  Inundated  Saturated in Upper 12 in.  Water Marks  Drift Lines  Sediment Deposits  Drainage Patterns in Wetland  
 Secondary Indicators (2 or more required):  
 Oxidized Root Channels in Upper 12 in.  Water-stained Leaves  Local Soil Survey Data  FAC-Neutral Test  Other \_\_\_\_\_

Comments: topographic swale - not wetland swale

**HYDRIC SOILS? Yes  No**

**SOILS**

Series/Phase: 106 - Andregg Coarse sandy loam 2-9% slopes Drainage Class: well drained  
 Taxonomy [Subgroup]: Andregg coarse loamy, mixed, thermic, Typic Haploxerolls Confirm Map Type: Yes  No   
 Histosol  Histic Epipedon  Sulfidic Odor  Aquic Moisture Regime  Reducing Conditions  Gleyed/Low Chroma Colors  Concretion  
 High Organic Content in Surface Layer in Sandy Soils  Organic Streaking in Sandy Soils  Listed on Hydric Soils List  Other \_\_\_\_\_  
 Inclusions [Series/Phase]: Unnamed hydric inclusions in drainage ways On Hydric Soils List: Yes  No

Depth (in.)	Horizon	Matrix Color	Mottle Color	Mottle (Abund/Contrast/Size)	Texture, Concretions, Structure
<u>4</u>	<u>herb</u>	<u>100 yr 3/2</u>	<u>— (no)</u>	<u>—</u>	<u>—</u>
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____

Comments: \_\_\_\_\_

**WETLAND / WATERS DETERMINATION? Yes  No**

**\* DECISION \***

Rationale: no criteria met

General comments: \_\_\_\_\_

Wetland Type: \_\_\_\_\_

# HERBACEOUS COVER / DOMINANCE WORK SHEET

Species Observed	Actual Cover	Relative Cover
Bro hor	75	75
Ave fat	25	25
TOTAL SUM (Σ) =	100	100%

**COVER:**

Vegetation	_____
Bare Ground	_____
Rocks	_____
Other	_____
<b>TOTAL =</b>	<b>100%</b>

Species (Descending Order)	Relative Cover	Cumulative Cover	Indicator Status	Dominants
Bro hor	75	75	UPL	X
Ave fat	25	100	UPL	X
TOTAL SUM (Σ) =	100%			

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**ROUTINE WETLAND DELINEATION**

Project/Site: Rocklin 105 Date: 9-21-01 Sample Point: 8N  
 Applicant/Owner: Sierra Holdings Field Investigator(s): Sarah Egan/K. Kwan  
 County: Placer State: CA Plant Community: Annual Grassland/Oak Wood.  
 Quad(s): Rocklin (7.5 min) Section/Township/Range: 16 T11N R7E  
 Do normal environmental conditions exist site? Yes  No  If no, explain: \_\_\_\_\_  
 Atypical Situation? Yes  No  Explain: \_\_\_\_\_  
 Is this a potential Problem Area? Yes  No  Explain: \_\_\_\_\_

**HYDROPHYTIC VEGETATION? Yes  No**

**VEGETATION**

Dominant Species	Ind. Status	Stratum	Rel. % Cover	Dominant Species	Ind. Status	Stratum	Rel. % Cover
1) <u>Brom</u>	<u>FACU</u>	<u>herb</u>	<u>40</u>	5) _____	_____	_____	_____
2) <u>Tri her</u>	<u>NL</u>	<u>herb</u>	<u>30</u>	6) _____	_____	_____	_____
3) <u>Ave fat</u>	<u>UPL</u>	<u>herb</u>	<u>20</u>	7) _____	_____	_____	_____
4) _____	_____	_____	_____	8) _____	_____	_____	_____

Percentage of dominant species that are OBL, FACW, and/or FAC [excluding FAC-]: \_\_\_\_\_ = \_\_\_\_\_ %

Comments: \_\_\_\_\_

**WETLAND HYDROLOGY? Yes  No**

**HYDROLOGY**

Recorded Data: Yes  No  If yes, \_\_\_\_\_  
 Depth of surface water: \_\_\_\_\_ (in.) Depth to free water in pit: \_\_\_\_\_ (in.) Depth to saturated soil: \_\_\_\_\_ (in.)  
 Primary Indicators:  Inundated  Saturated in Upper 12 in.  Water Marks  Drift Lines  Sediment Deposits  Drainage Patterns in Wetland  
 Secondary Indicators (2 or more required):  
 Oxidized Root Channels in Upper 12 in.  Water-stained Leaves  Local Soil Survey Data  FAC-Neutral Test  Other \_\_\_\_\_  
 Comments: \_\_\_\_\_

**HYDRIC SOILS? Yes  No**

**SOILS**

Series/Phase: 106 - Andregg Coarse sandy loam 2-9% slopes Drainage Class: well drained  
 Taxonomy [Subgroup]: Andregg coarse loamy, mixed, thermic, Typic Haploxerolls Confirm Map Type: Yes  No   
 Histosol  Histic Epipedon  Sulfidic Odor  Aquic Moisture Regime  Reducing Conditions  Gleyed/Low Chroma Colors  Concrete  
 High Organic Content in Surface Layer in Sandy Soils  Organic Streaking in Sandy Soils  Listed on Hydric Soils List  Other \_\_\_\_\_  
 Inclusions [Series/Phase]: Unnamed hydric inclusions in drainageways On Hydric Soils List: Yes  No

Depth (in.)	Horizon	Matrix Color	Mottle Color	Mottle (Abund/Contrast/Size)	Texture, Concretions, Structure
<u>4</u>	_____	<u>10 yr 3/3</u>	_____	_____	_____
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____

Comments: \_\_\_\_\_

**WETLAND / WATERS DETERMINATION? Yes  No**

**\* DECISION \***

Rationale: no criteria met

General comments: \_\_\_\_\_

Wetland Type: \_\_\_\_\_



# HERBACEOUS COVER / DOMINANCE WORK SHEET

<u>Species Observed</u>	<u>Actual Cover</u>	<u>Relative Cover</u>
Tri hir	30	30
Bro hor	40	40
Nas pul	10	10
Ave fat	20	20
TOTAL SUM ( $\Sigma$ ) =	100	100%

COVER:

Vegetation	100
Bare Ground	_____
Rocks	_____
Other	_____
TOTAL =	100%

<u>Species (Descending Order)</u>	<u>Relative Cover</u>	<u>Cumulative Cover</u>	<u>Indicator Status</u>	<u>Dominants</u>
Bro hor	40	40	UPL	X
Tri hir	30	70	NL	X
Ave fat	20	90	UPL	X
Nas pul	10	-	NL	
TOTAL SUM ( $\Sigma$ ) =	100%			

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**ROUTINE WETLAND DELINEATION**

Project/Site: Rocklin 105 Date: 9/21/01 Sample Point: 9  
 Applicant/Owner: Sierra Holdings Field Investigator(s): Sarah Egan/Wy Kwan  
 County: Placer State: CA Plant Community: Annual Grassland/Oak Wood.  
 Quad(s): Rocklin (7.5 min) Section/Township/Range: 16 T11N R7E  
 Do normal environmental conditions exist site? Yes  No  If no, explain: \_\_\_\_\_  
 Atypical Situation? Yes  No  Explain: \_\_\_\_\_  
 Is this a potential Problem Area? Yes  No  Explain: \_\_\_\_\_

HYDROPHYTIC VEGETATION? Yes  No

**VEGETATION**

Dominant Species	Ind. Status	Stratum	Rel. % Cover	Dominant Species	Ind. Status	Stratum	Rel. % Cover
1) <u>Lol mul</u>	<u>FAC</u>	<u>herb</u>	<u>40</u>	5) _____	_____	_____	_____
2) <u>Poly mon</u>	<u>FACW</u>	<u>herb</u>	<u>30</u>	6) _____	_____	_____	_____
3) <u>Rum cri</u>	<u>FACW</u>	<u>herb</u>	<u>20</u>	7) _____	_____	_____	_____
4) _____	_____	_____	_____	8) _____	_____	_____	_____

Percentage of dominant species that are OBL, FACW, and/or FAC [excluding FAC-]: 3/3 = 100 %

Comments: \_\_\_\_\_

WETLAND HYDROLOGY? Yes  No

**HYDROLOGY**

Recorded Data: Yes  No  If yes, \_\_\_\_\_  
 Depth of surface water: \_\_\_\_\_ (in.) Depth to free water in pit: \_\_\_\_\_ (in.) Depth to saturated soil: \_\_\_\_\_ (in.)  
 Primary Indicators:  Inundated  Saturated in Upper 12 in.  Water Marks  Drift Lines  Sediment Deposits  Drainage Patterns in Wetland  
 Secondary Indicators (2 or more required):  
 Oxidized Root Channels in Upper 12 in.  Water-stained Leaves  Local Soil Survey Data  FAC-Neutral Test  Other \_\_\_\_\_  
 Comments: old ditch? mounding? causes water to back up

HYDRIC SOILS? Yes  No

**SOILS**

Series/Phase: 106 - Andregg Coarse sandy loam 2-9% slopes Drainage Class: well drained  
 Taxonomy [Subgroup]: Andregg coarse loamy, mixed, thermic, Typic Haploxerolls Confirm Map Type: Yes  No   
 Histosol  Histic Epipedon  Sulfidic Odor  Aquic Moisture Regime  Reducing Conditions  Gleyed/Low Chroma Colors  Concretion  
 High Organic Content in Surface Layer in Sandy Soils  Organic Streaking in Sandy Soils  Listed on Hydric Soils List  Other \_\_\_\_\_  
 Inclusions [Series/Phase]: Unnamed hydric inclusions in drainageways On Hydric Soils List: Yes  No

Depth (in.)	Horizon	Matrix Color	Mottle Color	Mottle (Abund/Contrast/Size)	Texture, Concretions, Structure
<u>4</u>	_____	<u>10 yr 3/2</u>	<u>5 yr 5/6</u>	<u>many leasy/large</u>	<u>clay</u>
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____

Comments: \_\_\_\_\_

WETLAND / WATERS DETERMINATION? Yes  No

**\* DECISION \***

Rationale: All criteria met.

General comments: \_\_\_\_\_

Wetland Type: seasonal wetland

# HERBACEOUS COVER / DOMINANCE WORK SHEET

<u>Species Observed</u>	<u>Actual Cover</u>	<u>Relative Cover</u>
Ror cor	10	10
Rum cri	20	20
Poly mon	30	30
Lol mul	40	40
TOTAL SUM ( $\Sigma$ ) =	100	100%

**COVER:**

Vegetation	100
Bare Ground	_____
Rocks	_____
Other	_____
TOTAL =	100%

<u>Species (Descending Order)</u>	<u>Relative Cover</u>	<u>Cumulative Cover</u>	<u>Indicator Status</u>	<u>Dominants</u>
Lol mul	40	40	_____	x
Pol mon	30	70	_____	x
Rum cri	20	90	_____	x
Ror cor	10	-	_____	
TOTAL SUM ( $\Sigma$ ) =	100%			

**ECORP Consulting, Inc.**  
 ENVIRONMENTAL CONSULTANTS

**ROUTINE WETLAND DELINEATION**

Project/Site: Rocklin 105 Date: 9/21/01 Sample Point: 10 N  
 Applicant/Owner: Sierra Holdings Field Investigator(s): Sarah Egan / K. Kwan  
 County: Placer State: CA Plant Community: Annual Grassland/Oak Wood.  
 Quad(s): Rocklin (7.5 min) Section/Township/Range: 16 T11N R7E  
 Do normal environmental conditions exist site? Yes  No  If no, explain: \_\_\_\_\_  
 Atypical Situation? Yes  No  Explain: \_\_\_\_\_  
 Is this a potential Problem Area? Yes  No  Explain: \_\_\_\_\_

**- VEGETATION** HYDROPHYTIC VEGETATION? Yes  No

Dominant Species	Ind. Status	Stratum	Rel. % Cover	Dominant Species	Ind. Status	Stratum	Rel. % Cover
1) <u>Ave fert</u>	<u>UPL</u>	<u>herb</u>	<u>50</u>	5) _____	_____	_____	_____
2) <u>Brd hor</u>	<u>FACW UPL</u>	<u>herb</u>	<u>50</u>	6) _____	_____	_____	_____
3) _____	_____	_____	_____	7) _____	_____	_____	_____
4) _____	_____	_____	_____	8) _____	_____	_____	_____

Percentage of dominant species that are OBL, FACW, and/or FAC [excluding FAC-]: 0/2 = 0 %  
 Comments: \_\_\_\_\_

**- HYDROLOGY** WETLAND HYDROLOGY? Yes  No

Recorded Data: Yes  No  If yes, \_\_\_\_\_  
 Depth of surface water: \_\_\_\_\_ (in.) Depth to free water in pit: \_\_\_\_\_ (in.) Depth to saturated soil: \_\_\_\_\_ (in.)  
 Primary Indicators:  Inundated  Saturated in Upper 12 in.  Water Marks  Drift Lines  Sediment Deposits  Drainage Patterns in Wetland  
 Secondary Indicators (2 or more required):  
 Oxidized Root Channels in Upper 12 in.  Water-stained Leaves  Local Soil Survey Data  FAC-Neutral Test  Other \_\_\_\_\_  
 Comments: no wetland hydrology only topo

**\* SOILS** HYDRIC SOILS? Yes  No

Series/Phase: 106 - Andregg Coarse sandy loam 2-9% slopes Drainage Class: well drained  
 Taxonomy [Subgroup]: Andregg coarse loamy, mixed, thermic, Typic Haploxerolls Confirm Map Type: Yes  No   
 Histosol  Histic Epipedon  Sulfidic Odor  Aquic Moisture Regime  Reducing Conditions  Gleyed/Low Chroma Colors  Concretion  
 High Organic Content in Surface Layer in Sandy Soils  Organic Streaking in Sandy Soils  Listed on Hydric Soils List  Other \_\_\_\_\_  
 Inclusions [Series/Phase]: Unnamed hydric inclusions in drainageways On Hydric Soils List: Yes  No   

Depth (in.)	Horizon	Matrix Color	Mottle Color	Mottle (Abund/Contrast/Size)	Texture, Concretions, Structure
<u>5</u>	<u>A<sub>2g</sub></u>	<u>10yr 3/3</u>	<u>-</u>	<u>-</u>	<u>-</u>
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____

Comments: \_\_\_\_\_

**\* DECISION \*** WETLAND / WATERS DETERMINATION? Yes  No

Rationale: no criteria met  
 General comments: \_\_\_\_\_  
 Wetland Type: \_\_\_\_\_

# HERBACEOUS COVER / DOMINANCE WORK SHEET

<u>Species Observed</u>	<u>Actual Cover</u>	<u>Relative Cover</u>
Ave fat	50	
Bro hor	50	
TOTAL SUM ( $\Sigma$ ) =	100	100%

**COVER:**

Vegetation	100
Bare Ground	_____
Rocks	_____
Other _____	_____
TOTAL =	100%

<u>Species (Descending Order)</u>	<u>Relative Cover</u>	<u>Cumulative Cover</u>	<u>Indicator Status</u>	<u>Dominants</u>
Ave fat	50	50	UPL	X
Bro hor	50	100	UPL	X
TOTAL SUM ( $\Sigma$ ) =	100%			

# ECORP Consulting, Inc.

ENVIRONMENTAL CONSULTANTS

## ROUTINE WETLAND DELINEATION

Project/Site: Rocklin 105 Date: 9/21/01 Sample Point: 11 N  
 Applicant/Owner: Sierra Holdings Field Investigator(s): Sarah Egan / K. Kwan  
 County: Placer State: CA Plant Community: Annual Grassland/Oak Wood.  
 Quad(s): Rocklin (7.5 min) Section/Township/Range: 16 T11N R7E  
 Do normal environmental conditions exist site? Yes  No  If no, explain: \_\_\_\_\_  
 Atypical Situation? Yes  No  Explain: \_\_\_\_\_  
 Is this a potential Problem Area? Yes  No  Explain: \_\_\_\_\_

### VEGETATION

HYDROPHYTIC VEGETATION? Yes  No

Dominant Species	Ind. Status	Stratum	Rel. % Cover	Dominant Species	Ind. Status	Stratum	Rel. % Cover
1) <u>Bro hor</u>	<u>FACU</u>			5) <u>Ace cal</u>	<u>NL ( )</u>	<u>Tree</u>	
2) <u>Ave fat</u>	<u>UPL</u>			6) <u>Que wiz</u>	<u>NL</u>	<u>Tree</u>	
3) <u>Cyn esk</u>	<u>UPL(NB)</u>			7) _____			
4) <u>Tri hir</u>	<u>NL</u>			8) _____			

Percentage of dominant species that are OBL, FACW, and/or FAC [excluding FAC-]: 0/6 = 0 %

Comments: \_\_\_\_\_

### HYDROLOGY

WETLAND HYDROLOGY? Yes  No

Recorded Data: Yes  No  If yes, \_\_\_\_\_  
 Depth of surface water: \_\_\_\_\_ (in.) Depth to free water in pit: \_\_\_\_\_ (in.) Depth to saturated soil: \_\_\_\_\_ (in.)  
 Primary Indicators:  Inundated  Saturated in Upper 12 in.  Water Marks  Drift Lines  Sediment Deposits  Drainage Patterns in Wetland  
 Secondary Indicators (2 or more required):  
 Oxidized Root Channels in Upper 12 in.  Water-stained Leaves  Local Soil Survey Data  FAC-Neutral Test  Other \_\_\_\_\_  
 Comments: \_\_\_\_\_

### SOILS

HYDRIC SOILS? Yes  No

Series/Phase: 106 - Andregg Coarse sandy loam 2-9% slopes Drainage Class: well drained  
 Taxonomy [Subgroup]: Andregg coarse loamy, mixed, thermic, Typic Haploxerolls Confirm Map Type: Yes  No   
 Histosol  Histic Epipedon  Sulfidic Odor  Aquic Moisture Regime  Reducing Conditions  Gleyed/Low Chroma Colors  Concretions  
 High Organic Content in Surface Layer in Sandy Soils  Organic Streaking in Sandy Soils  Listed on Hydric Soils List  Other \_\_\_\_\_  
 Inclusions [Series/Phase]: Unnamed hydric inclusions in drainageways On Hydric Soils List: Yes  No

Depth (in.)	Horizon	Matrix Color	Mottle Color	Mottle (Abund/Contrast/Size)	Texture, Concretions, Structure
<u>1</u>		<u>10 yr 3/2</u>	<u>(NB)</u>		

Comments: rock, cobble/bedrock after 1 inch

### \* DECISION \*

WETLAND / WATERS DETERMINATION? Yes  No

Rationale: no criteria met

General comments: \_\_\_\_\_

Wetland Type: \_\_\_\_\_

# HERBACEOUS COVER / DOMINANCE WORK SHEET

	<u>Species Observed</u>	<u>Actual Cover</u>	<u>Relative Cover</u>
Herb	Bri min	5	5
	Bro hor	35	35
	Ave fat	25	25
	Cyn os	20	25
	Tri hir	20	20
Tree	Ace cal	50	50
	Que wiz	50	50
TOTAL SUM ( $\Sigma$ ) =		200	100%

**COVER:**

Vegetation	100
Bare Ground	_____
Rocks	_____
Other	_____
<b>TOTAL =</b>	<b>100%</b>

	<u>Species (Descending Order)</u>	<u>Relative Cover</u>	<u>Cumulative Cover</u>	<u>Indicator Status</u>	<u>Dominants</u>
Herb	Bro hor	35	35	_____	_____
	Ave fat	25	60	_____	_____
	Cyn os	25	85	_____	_____
	Tri hir	20	95	_____	_____
	Bri min	5	-	_____	_____
Tree	Ace cal	50	50	_____	_____
	Que wiz	50	100	_____	_____
TOTAL SUM ( $\Sigma$ ) =		100%			

Project/Site: Rocklin 105 Date: 9/21/01 Sample Point: 12  
 Applicant/Owner: Sierra Holdings Field Investigator(s): Sarah Egan / K. Kwan  
 County: Placer State: CA Plant Community: Annual Grassland/Oak Wood.  
 Quad(s): Rocklin (7.5 min) Section/Township/Range: 16 T11N R7E  
 Do normal environmental conditions exist site? Yes  No  If no, explain: \_\_\_\_\_  
 Atypical Situation? Yes  No  Explain: \_\_\_\_\_  
 Is this a potential Problem Area? Yes  No  Explain: \_\_\_\_\_

**HYDROPHYTIC VEGETATION?** Yes  No

**VEGETATION**

Dominant Species	Ind. Status	Stratum	Rel. % Cover	Dominant Species	Ind. Status	Stratum	Rel. % Cover
1) <u>Pha spp.</u>	<u>herb</u>	<u>FAC</u>	_____	5) _____	_____	_____	_____
2) <u>Men pul</u>	<u>herb</u>	<u>OBL</u>	_____	6) _____	_____	_____	_____
3) <u>Rum cri</u>	<u>herb</u>	<u>FACW</u>	_____	7) _____	_____	_____	_____
4) <u>Que wiz</u>	<u>tree</u>	<u>NL</u>	_____	8) _____	_____	_____	_____

Percentage of dominant species that are OBL, FACW, and/or FAC [excluding FAC-]: 3/4 = 75 %

Comments: \_\_\_\_\_

**HYDROLOGY**

**WETLAND HYDROLOGY?** Yes  No

Recorded Data: Yes  No  If yes, \_\_\_\_\_  
 Depth of surface water: \_\_\_\_\_ (in.) Depth to free water in pit: \_\_\_\_\_ (in.) Depth to saturated soil: \_\_\_\_\_ (in.)  
 Primary Indicators:  Inundated  Saturated in Upper 12 in.  Water Marks  Drift Lines  Sediment Deposits  Drainage Patterns in Wetland  
 Secondary Indicators (2 or more required):  
 Oxidized Root Channels in Upper 12 in.  Water-stained Leaves  Local Soil Survey Data  FAC-Neutral Test  Other \_\_\_\_\_  
 Comments: \_\_\_\_\_

**SOILS**

**HYDRIC SOILS?** Yes  No

Series/Phase: 106 - Andregg Coarse sandy loam 2-9% slopes Drainage Class: well drained  
 Taxonomy [Subgroup]: Andregg coarse loamy, mixed, thermic, Typic Haploxerolls Confirm Map Type: Yes  No   
 Histosol  Histic Epipedon  Sulfidic Odor  Aquic Moisture Regime  Reducing Conditions  Gleyed/Low Chroma Colors  Concretion  
 High Organic Content in Surface Layer in Sandy Soils  Organic Streaking in Sandy Soils  Listed on Hydric Soils List  Other \_\_\_\_\_  
 Inclusions [Series/Phase]: Unnamed hydric inclusions in drainageways On Hydric Soils List: Yes  No   

Depth (in.)	Horizon	Matrix Color	Mottle Color	Mottle (Abund/Contrast/Size)	Texture, Concretions, Structure
<u>2 - (rock)</u>	<u>10yr 3/2</u>	<u>_____</u>	<u>_____</u>	<u>_____</u>	<u>_____</u>
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____

  
 Comments: exposed bedrock

**WETLAND / WATERS DETERMINATION?** Yes  No

**\* DECISION \***

Rationale: all criteria met

General comments: \_\_\_\_\_ Wetland Type: intermittent drainage  
seasonal wetland fringed in places





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**ROUTINE WETLAND DELINEATION**

Project/Site: Rocklin 105 Date: 2/6/02 Sample Point: 13N  
 Applicant/Owner: Sierra Holdings Field Investigator(s): Sarah Egan / K. Kwan  
 County: Placer State: CA Plant Community: Annual Grassland/Oak Wood.  
 Quad(s): Rocklin (7.5 min) Section/Township/Range: 16 T11N RTE  
 Do normal environmental conditions exist site? Yes  No  If no, explain: \_\_\_\_\_  
 Atypical Situation? Yes  No  Explain: \_\_\_\_\_  
 Is this a potential Problem Area? Yes  No  Explain: \_\_\_\_\_

**HYDROPHYTIC VEGETATION? Yes  No**

**VEGETATION**

Dominant Species	Ind. Status	Stratum	Rel. % Cover	Dominant Species	Ind. Status	Stratum	Rel. % Cover
1) <u>Que wis</u>	<u>N/L</u>	<u>tree</u>	<u>45</u>	5) _____	_____	_____	_____
2) <u>Que lob</u>	<u>FAC*</u>	<u>tree</u>	<u>45</u>	6) _____	_____	_____	_____
3) <u>Tox div</u>	<u>N/L</u>	<u>shrub</u>	<u>100</u>	7) _____	_____	_____	_____
4) <u>Cyn ech</u>	<u>N/L</u>	<u>herb</u>	<u>100</u>	8) _____	_____	_____	_____

Percentage of dominant species that are OBL, FACW, and/or FAC [excluding FAC-]: 1/4 = 25 %

Comments: \_\_\_\_\_

**WETLAND HYDROLOGY? Yes  No**

**HYDROLOGY**

Recorded Data: Yes  No  If yes, \_\_\_\_\_  
 Depth of surface water: \_\_\_\_\_ (in.) Depth to free water in pit: \_\_\_\_\_ (in.) Depth to saturated soil: \_\_\_\_\_ (in.)  
 Primary Indicators:  Inundated  Saturated in Upper 12 in.  Water Marks  Drift Lines  Sediment Deposits  Drainage Patterns in Wetland  
 Secondary Indicators (2 or more required):  
 Oxidized Root Channels in Upper 12 in.  Water-stained Leaves  Local Soil Survey Data  FAC-Neutral Test  Other \_\_\_\_\_  
 Comments: no hydrology

**HYDRIC SOILS? Yes  No**

**SOILS**

Series/Phase: 106 - Andregg Coarse sandy loam 2-9% slopes Drainage Class: well drained  
 Taxonomy [Subgroup]: Andregg coarse loamy, mixed, thermic, Typic Haploxerolls Confirm Map Type: Yes  No   
 Histosol  Histic Epipedon  Sulfidic Odor  Aquic Moisture Regime  Reducing Conditions  Gleyed/Low Chroma Colors  Concretion  
 High Organic Content in Surface Layer in Sandy Soils  Organic Streaking in Sandy Soils  Listed on Hydric Soils List  Other \_\_\_\_\_  
 Inclusions [Series/Phase]: Unnamed hydric inclusions in drainageways On Hydric Soils List: Yes  No

Depth (in.)	Horizon	Matrix Color	Mottle Color	Mottle (Abund/Contrast/Size)	Texture, Concretions, Structure
<u>0-10</u>	_____	<u>7.5 3/2</u>	<u>none</u>	_____	<u>Sandy loam</u>
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____

**WETLAND / WATERS DETERMINATION? Yes  No**

**\* DECISION \***

Rationale: None of the criteria met  
 General comments: see pt 9 for comparison  
 Wetland Type: \_\_\_\_\_



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**ROUTINE WETLAND DELINEATION**

Project/Site: Rocklin 105 Date: 2/6/02 Sample Point: 14  
 Applicant/Owner: Sierra Holdings Field Investigator(s): Sarah Egan/K. Kwan  
 County: Placer State: CA Plant Community: Annual Grassland/Oak Wood.  
 Quad(s): Rocklin (7.5 min) Section/Township/Range: 16 T11N R7E  
 Do normal environmental conditions exist site? Yes  No  If no, explain: area augmented by piped H<sub>2</sub>O  
 Atypical Situation? Yes  No  Explain: \_\_\_\_\_  
 Is this a potential Problem Area? Yes  No  Explain: \_\_\_\_\_

**HYDROPHYTIC VEGETATION?** Yes  No

**- VEGETATION**

Dominant Species	Ind. Status	Stratum	Rel. % Cover	Dominant Species	Ind. Status	Stratum	Rel. % Cover
1) <u>Typha sp.</u>	<u>Obl</u>	<u>herb</u>	<u>100</u>	5) _____	_____	_____	_____
2) _____	_____	_____	_____	6) _____	_____	_____	_____
3) _____	_____	_____	_____	7) _____	_____	_____	_____
4) _____	_____	_____	_____	8) _____	_____	_____	_____

Percentage of dominant species that are OBL, FACW, and/or FAC [excluding FAC-]: \_\_\_\_\_ = \_\_\_\_\_ %

Comments: \_\_\_\_\_

**WETLAND HYDROLOGY?** Yes  No

**- HYDROLOGY**

Recorded Data: Yes  No  If yes, \_\_\_\_\_  
 Depth of surface water: 6 (in.) Depth to free water in pit: 0 (in.) Depth to saturated soil: 0 (in.)  
 Primary Indicators:  Inundated  Saturated in Upper 12 in.  Water Marks  Drift Lines  Sediment Deposits  Drainage Patterns in Wetland  
 Secondary Indicators (2 or more required):  
 Oxidized Root Channels in Upper 12 in.  Water-stained Leaves  Local Soil Survey Data  FAC-Neutral Test  Other \_\_\_\_\_

Comments: \_\_\_\_\_

**HYDRIC SOILS?** Yes  No

**- SOILS**

Series/Phase: 106 - Andregg Coarse sandy loam 2-9% slopes Drainage Class: well drained  
 Taxonomy [Subgroup]: Andregg coarse loamy, mixed, thermic, Typic Haploxerolls Confirm Map Type: Yes  No   
 Histosol  Histic Epipedon  Sulfidic Odor  Aquic Moisture Regime  Reducing Conditions  Gleyed/Low Chroma Colors  Concretion  
 High Organic Content in Surface Layer in Sandy Soils  Organic Streaking in Sandy Soils  Listed on Hydric Soils List  Other \_\_\_\_\_  
 Inclusions [Series/Phase]: Unnamed hydric inclusions in drainage ways On Hydric Soils List: Yes  No

Depth (in.)	Horizon	Matrix Color	Mottle Color	Mottle (Abund/Contrast/Size)	Texture, Concretions, Structure
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____

Comments: soils assumed to be hydric

**WETLAND / WATERS DETERMINATION?** Yes  No

**\* DECISION \***

Rationale: All criteria met.  
 General comments: See Pt 15 for comparison  
 Wetland Type: \_\_\_\_\_



**ECORP Consulting, Inc.**  
**ENVIRONMENTAL CONSULTANTS**

**ROUTINE WETLAND DELINEATION**

Project/Site: Rocklin 105 Date: 2/6/02 Sample Point: 15N  
 Applicant/Owner: Sierra Holdings Field Investigator(s): Sarah Egan/K. Kwan  
 County: Placer State: CA Plant Community: Annual Grassland/Oak Wood.  
 Quad(s): Rocklin (7.5 min) Section/Township/Range: 16 T11N R7E  
 Do normal environmental conditions exist site? Yes  No  If no, explain: \_\_\_\_\_  
 Atypical Situation? Yes  No  Explain: \_\_\_\_\_  
 Is this a potential Problem Area? Yes  No  Explain: \_\_\_\_\_

**VEGETATION**

**HYDROPHYTIC VEGETATION?** Yes  No

Dominant Species	Ind. Status	Stratum	Rel. % Cover	Dominant Species	Ind. Status	Stratum	Rel. % Cover
1) <u>Carex sp</u>	<u>FACW</u>	<u>herb</u>	<u>100</u>	5) <u>Que lob</u>	<u>FAC*</u>	<u>tree</u>	<u>50</u>
2) <u>Rub dis</u>	<u>FACW*</u>	<u>shrub</u>	<u>50</u>	6) _____	_____	_____	_____
3) <u>Tox div</u>	<u>N/L</u>	<u>shrub</u>	<u>50</u>	7) _____	_____	_____	_____
4) <u>Que wis</u>	<u>N/L</u>	<u>Tree</u>	<u>50</u>	8) _____	_____	_____	_____

Percentage of dominant species that are OBL, FACW, and/or FAC [excluding FAC-]: 3/5 = 100 %

Comments: \_\_\_\_\_

**HYDROLOGY**

**WETLAND HYDROLOGY?** Yes  No

Recorded Data: Yes  No  If yes, \_\_\_\_\_  
 Depth of surface water: \_\_\_\_\_ (in.) Depth to free water in pit: \_\_\_\_\_ (in.) Depth to saturated soil: \_\_\_\_\_ (in.)  
 Primary Indicators:  Inundated  Saturated in Upper 12 in.  Water Marks  Drift Lines  Sediment Deposits  Drainage Patterns in Wetland  
 Secondary Indicators (2 or more required):  
 Oxidized Root Channels in Upper 12 in.  Water-stained Leaves  Local Soil Survey Data  FAC-Neutral Test  Other \_\_\_\_\_  
 Comments: no hydrology

**SOILS**

**HYDRIC SOILS?** Yes  No

Series/Phase: 106 - Andregg Coarse sandy loam 2-9% slopes Drainage Class: well drained  
 Taxonomy [Subgroup]: Andregg coarse loamy, mixed, thermic, Typic Haploxerolls Confirm Map Type: Yes  No   
 Histosol  Histic Epipedon  Sulfidic Odor  Aquic Moisture Regime  Reducing Conditions  Gleyed/Low Chroma Colors  Concretion  
 High Organic Content in Surface Layer in Sandy Soils  Organic Streaking in Sandy Soils  Listed on Hydric Soils List  Other \_\_\_\_\_  
 Inclusions [Series/Phase]: Unnamed hydric inclusions in drainageways On Hydric Soils List: Yes  No

Depth (in.)	Horizon	Matrix Color	Mottle Color	Mottle (Abund/Contrast/Size)	Texture, Concretions, Structure
<u>0-10</u>	_____	<u>7.5yr 3/3</u>	<u>none</u>	<u>-</u>	<u>sandy loam</u>
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____

Comments: \_\_\_\_\_

**WETLAND / WATERS DETERMINATION?** Yes  No

\* **DECISION** \*  
 Rationale: All criteria not met  
 General comments: See point

Wetland Type: \_\_\_\_\_

# HERBACEOUS COVER / DOMINANCE WORK SHEET

	<u>Species Observed</u>	<u>Actual Cover</u>	<u>Relative Cover</u>
herb	Carex sp.	25	100
shrub	Rub dis	5	50
	Tox div	5	50
tree	Que wis	50	50
	Que lob	50	50
TOTAL SUM (Σ) =		135	100%

COVER:

Vegetation	100
Bare Ground	_____
Rocks	_____
Other	_____
TOTAL =	100%

	<u>Species (Descending Order)</u>	<u>Relative Cover</u>	<u>Cumulative Cover</u>	<u>Indicator Status</u>	<u>Dominants</u>
herb	Carex sp.	100	100	FACW	X
shrub	Rub dis	5	50	FACW*	X
	Tox div	5	50	N/L	X
tree	Que wis	50	50	N/L	X
	Que lob	50	50	FAC*	X
TOTAL SUM (Σ) =		100%			

**ECORP Consulting, Inc.**  
**ENVIRONMENTAL CONSULTANTS**

**ROUTINE WETLAND DELINEATION**

Project/Site: Rocklin 105 Date: 2/6/02 Sample Point: 16  
 Applicant/Owner: Sierra Holdings Field Investigator(s): Sarah Egan  
 County: Placer State: CA Plant Community: Annual Grassland/Oak Wood.  
 Quad(s): Rocklin (7.5 min) Section/Township/Range: 16 T1N R7E  
 Do normal environmental conditions exist site? Yes  No  If no, explain: \_\_\_\_\_  
 Atypical Situation? Yes  No  Explain: \_\_\_\_\_  
 Is this a potential Problem Area? Yes  No  Explain: \_\_\_\_\_

**VEGETATION**

**HYDROPHYTIC VEGETATION?** Yes  No

Dominant Species	Ind. Status	Stratum	Rel. % Cover	Dominant Species	Ind. Status	Stratum	Rel. % Cover
1) <u>Que. dou</u>	<u>N/L</u>	<u>Tree</u>	<u>100</u>	5) _____	_____	_____	_____
2) <u>Rub. dig</u>	<u>FACW*</u>	<u>shrub</u>	<u>100</u>	6) _____	_____	_____	_____
3) <u>Bunch grass</u>	<u>?(FAC)</u>	<u>herb</u>	_____	7) _____	_____	_____	_____
4) _____	_____	_____	_____	8) _____	_____	_____	_____

Percentage of dominant species that are OBL, FACW, and/or FAC [excluding FAC-]: 2/3 = \_\_\_\_\_ %

Comments: Unidentified grass assumed to be wet.

**HYDROLOGY**

**WETLAND HYDROLOGY?** Yes  No

Recorded Data: Yes  No  If yes, \_\_\_\_\_  
 Depth of surface water: \_\_\_\_\_ (in.) Depth to free water in pit: \_\_\_\_\_ (in.) Depth to saturated soil: \_\_\_\_\_ (in.)  
 Primary Indicators:  Inundated  Saturated in Upper 12 in.  Water Marks  Drift Lines  Sediment Deposits  Drainage Patterns in Wetland  
 Secondary Indicators (2 or more required):  
 Oxidized Root Channels in Upper 12 in.  Water-stained Leaves  Local Soil Survey Data  FAC-Neutral Test  Other \_\_\_\_\_  
 Comments: \_\_\_\_\_

**SOILS**

**HYDRIC SOILS?** Yes  No

Series/Phase: 106 - Andregg Coarse sandy loam 2-9% slopes Drainage Class: well drained  
 Taxonomy [Subgroup]: Andregg coarse loamy, mixed, thermic, Typic Haploxerolls Confirm Map Type: Yes  No   
 Histosol  Histic Epipedon  Sulfidic Odor  Aquic Moisture Regime  Reducing Conditions  Gleyed/Low Chroma Colors  Concrete  
 High Organic Content in Surface Layer in Sandy Soils  Organic Streaking in Sandy Soils  Listed on Hydric Soils List  Other \_\_\_\_\_  
 Inclusions [Series/Phase]: Unnamed hydric inclusions in drainage ways On Hydric Soils List: Yes  No   

Depth (in.)	Horizon	Matrix Color	Mottle Color	Mottle (Abund/Contrast/Size)	Texture, Concretions, Structure
<u>0-4</u>	_____	<u>7.5 yr 3/3</u>	<u>none</u>	_____	_____
<u>4-12</u>	_____	<u>7.5 yr 3/2</u>	<u>none</u>	_____	_____

  
 Comments: Just outside of the riparian wetland area.

**WETLAND / WATERS DETERMINATION?** Yes  No

\* DECISION \*  
 Rationale: All criteria not met  
 General comments: \_\_\_\_\_

Wetland Type: \_\_\_\_\_





## **ATTACHMENT B**

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Plants Observed at Data Points

**Rocklin 105 Property  
Wetland Delineation  
Plants Observed at Data Points**

<b>Abbr.</b>	<b>Scientific Name</b>	<b>Common Name</b>	<b>Indicator Status</b>
AES CAL	<i>Aesculus californica</i>	California buckeye	N/L
AVE FAT	<i>Avena fatua</i>	Wild oat	N/L
BRI MIN	<i>Briza minor</i>	Little quaking grass	FACU
BRO CAT	<i>Bromus catharticus</i>	Rescue grass	N/L
BRO HOR	<i>Bromus hordeaceus</i>	Soft brome	FACU-
CAR spe.	<i>Carex</i> species	Sedge	FACW+
CYN ECH	<i>Cynosurus echinatus</i>	Hedgehog dog-tail grass	N/L
CYP ERA	<i>Cyperus eragrostis</i>	Tall flatsedge	FACW
DES DAN	<i>Deschampsia danthonioides</i>	Annual hairgrass	FACW
HEM FIT	<i>Hemizonia fitchii</i>	Fitch's spikeweed	FACU
JUN BAL	<i>Juncus balticus</i>	Baltic rush	FACW
JUN XIP	<i>Juncus xiphioides</i>	Iris-leaf rush	OBL
LOL MUL	<i>Lolium multiflorum</i>	Ryegrass	FAC
MEN PUL	<i>Mentha pulegium</i>	Pennyroyal	OBL
NAS PUL	<i>Nassella pulchra</i>	Purple needle grass	N/L
PHA spe.	<i>Phalaris</i> species	Canary grass	--
POP FRE	<i>Populus fremontii</i>	Fremont's cottonwood	FAC+*
QUE DOU	<i>Quercus douglasii</i>	Blue oak	N/L
QUE LOB	<i>Quercus lobata</i>	Valley oak	FACU
QUE WIS	<i>Quercus wislizenii</i>	Interior live oak	N/L
ROR CUR	<i>Rorippa curvisiliqua</i>	Yellow cress	OBL
RUB DIS	<i>Rubus discolor</i>	Himalayan blackberry	FAC+
RUM CRI	<i>Rumex crispus</i>	Curly dock	FACW-
RUM PUL	<i>Rumex pulcher</i>	Fiddle dock	FAC+
TOX DIV	<i>Toxicodendron diversilobum</i>	Poison oak	N/L
TRI HIR	<i>Trifolium hirtum</i>	Rose clover	N/L
TYP spe.	<i>Typha</i> species	Cattail	OBL
VER BLA	<i>Verbascum blattaria</i>	Moth mullein	FACW

**Indicator Status Codes**

**OBL** = Obligate Wetland; occur almost always (estimated probability >99%) under natural conditions in wetlands.

**FACW** = Facultative Wetland; usually occur in wetlands (estimated probability 67%-99%) under natural conditions in wetlands.

**FAC** = Facultative; equally likely to occur in wetlands or non-wetlands (estimated probability 34%-66%).

**FACU** = Facultative Upland; usually occur in non-wetlands (estimated probability 67%-99%).

**UPL** = Obligate Upland; occur almost always (estimated probability >99%) in non-wetlands in the region specified.

**N/L** = Not Listed.

**NI** = No indicator was recorded for those species for which insufficient information was available to determine a status.

-- = May or may not occur in wetlands depending upon species.

A positive (+) sign indicates a frequency toward the higher (more frequently found in wetlands) end of the facultative categories.

A negative (-) sign indicates a frequency toward the lower (less frequently found in wetlands) end of the facultative categories.

An asterisk (\*) indicates a tentative assignment based upon limited information or conflicting review.

# **ATTACHMENT C**

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Wetland Delineation Map



FIGURE 3. Wetland Delineation

