

**WETLAND DELINEATION
FOR THE
±800-ACRE SRC MILLING PROPERTY**

Sacramento County, California

Prepared for:

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October 29, 2008

ROUTINE WETLAND DETERMINATION FORM

Project/Site: SRC Milling

Date: May 1, 2003

Applicant: SRC Milling

Sample Point: 205

Investigators: JG/BA

County: Sacramento

State: California

Quad(s): Carmichael

Section 30 Township 0N Range 7E

Atypical Situation? Yes No

Potential Problem Area? Yes No

Normal Circumstances? Yes No

VEGETATION

Dominant Plant Species	% Cover	Status	Non-Dominant Plant Species	% Cover	Status
<i>Ardeum maximum</i>	40	FAC	<i>Ranunculus abortivus</i>	5	OBL
<i>Leontodon tarax.</i>	40	-	<i>Deschampsia dentata</i>	5	FACW
			<i>Eryngium yuccifolium</i>	5	FACW
			<i>Plantago virginica</i>	5	OBL

Percentage of dominant species that are OBL, FACW, or FAC: 50 %

Remarks: Subdominants suggest wetland conditions.

Wetland Vegetation YES NO

SOILS

Map Unit Name (Series/Phase): Red Bluff - Redding Complex

Mottled? Yes / No / Gleyed? Yes / No / Matrix Color: _____ Mottle Color: _____

Redoximorphic Features:

<input type="checkbox"/> Gleyed or Low Chroma Colors	<input type="checkbox"/> Reducing Conditions
<input type="checkbox"/> Low Chroma w/ Mottles	<input type="checkbox"/> Sulfidic Odor
<input checked="" type="checkbox"/> Aquic Moisture Regime	<input type="checkbox"/> Concretions
<input type="checkbox"/> Listed on Local Hydric Soil List	<input type="checkbox"/> Other

Remarks: Very rocky. Saturated at the surface. Very red, high chroma.

Wetland Soils YES NO

HYDROLOGY

Inundated? Yes No Saturated? Yes No Depth of/to Free Water: 1"

Primary Indicators: <input checked="" type="checkbox"/> Inundated <input type="checkbox"/> Saturated in Upper 12" <input type="checkbox"/> Water Marks/Drift Lines <input type="checkbox"/> Sediment Deposit <input type="checkbox"/> Algal Matting <input type="checkbox"/> Drainage Patterns in Wetlands	Secondary Indicators: <input type="checkbox"/> Oxidized Root Channels in Upper 12" <input type="checkbox"/> Water-Stained Leaves <input type="checkbox"/> Local Soil Survey Data <input type="checkbox"/> Other
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Remarks: very shallow inundation.

Wetland Hydrology YES NO

WETLAND/WATERS DETERMINATION

Hydrophytic Vegetation Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Other Waters.: Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
Hydric Soils Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Wetland: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Wetland Hydrology Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	

Remarks: Near the edge of a very shallow pool.

ROUTINE WETLAND DETERMINATION FORM

Project/Site: SRC Milling Date: May 1, 2003
 Applicant: SRC Milling Sample Point: 206
 Investigators: JG/BA County: Sacramento State: California
 Quad(s): Charmichael Section 30 Township 0N Range 7E
 Atypical Situation? Yes No Potential Problem Area? Yes No Normal Circumstances? Yes No

VEGETATION

Dominant Plant Species	% Cover	Status	Non-Dominant Plant Species	% Cover	Status
<i>Hordeum marinum</i>	40	FAC	<i>Trifolium dubium</i>		FACU
<i>Vulpia microstachya</i>	30	-			
<i>Leontodon tarax</i>	30	-			

Percentage of dominant species that are OBL, FACW, or FAC: 30 %

Remarks: No strong indications

Wetland Vegetation YES NO

SOILS

Map Unit Name (Series/Phase): Red Bluff - Redding complex

Mottled? Yes / No Gleyed? Yes / No Matrix Color: 5YR 3/4 Mottle Color: _____

Redoximorphic Features:

<input type="checkbox"/> Gleyed or Low Chroma Colors	<input type="checkbox"/> Reducing Conditions
<input type="checkbox"/> Low Chroma w/ Mottles	<input type="checkbox"/> Sulfidic Odor
<input type="checkbox"/> Aquic Moisture Regime	<input type="checkbox"/> Concretions
<input type="checkbox"/> Listed on Local Hydric Soil List	<input type="checkbox"/> Other

Remarks: High chroma in an upland position

Wetland Soils YES NO

HYDROLOGY

Inundated? Yes _____ No Saturated? Yes _____ No Depth of/to Free Water: _____

Primary Indicators: <input type="checkbox"/> Inundated <input type="checkbox"/> Saturated in Upper 12" <input type="checkbox"/> Water Marks/Drift Lines <input type="checkbox"/> Sediment Deposit <input type="checkbox"/> Algal Matting <input type="checkbox"/> Drainage Patterns in Wetlands	Secondary Indicators: <input type="checkbox"/> Oxidized Root Channels in Upper 12" <input type="checkbox"/> Water-Stained Leaves <input type="checkbox"/> Local Soil Survey Data <input type="checkbox"/> Other
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Remarks: No hydrology. Outside shallow depression

Wetland Hydrology YES NO

WETLAND/WATERS DETERMINATION

Hydrophytic Vegetation Present? Yes _____ No <input checked="" type="checkbox"/>	Other Waters.: Yes _____ No <input checked="" type="checkbox"/>
Hydric Soils Present? Yes _____ No <input checked="" type="checkbox"/>	Wetland: Yes _____ No <input checked="" type="checkbox"/>
Wetland Hydrology Present? Yes _____ No <input checked="" type="checkbox"/>	

Remarks: No wetland parameters present

ROUTINE WETLAND DETERMINATION FORM

Project/Site: SRC Milling

Date: May 1, 2003

Applicant: SRC Milling

Sample Point: 207

Investigators: JG/BA

County: Sacramento

State: California

Quad(s): Carmichael

Section 30 Township 8N Range 7E

Atypical Situation? Yes No

Potential Problem Area? Yes No

Normal Circumstances? Yes No

VEGETATION

Dominant Plant Species	% Cover	Status	Non-Dominant Plant Species	% Cover	Status
<u><i>Hordeum marinum</i></u>	<u>60</u>	<u>FAC</u>	<u><i>Phragmites stip.</i></u>		<u>OBL</u>
<u><i>Deschampsia cesp.</i></u>	<u>25</u>	<u>FACW</u>	<u><i>Lythrum hyssopifolium</i></u>		<u>FACW</u>
<u><i>Panicum sp.</i></u>	<u>5</u>		<u><i>Lactuca glabrata</i></u>		<u>OBL</u>

Percentage of dominant species that are OBL, FACW, or FAC: 100 %

Remarks:

Subdominants suggest wetland conditions

Wetland Vegetation YES NO

SOILS

Map Unit Name (Series/Phase): Red Bluff - Redding complex

Mottled? Yes No Gleyed? Yes No Matrix Color: 7.5 YR 3/4 Mottle Color: Faint, indistinct

Redoximorphic Features:

<input type="checkbox"/> Gleyed or Low Chroma Colors	<input type="checkbox"/> Reducing Conditions
<input type="checkbox"/> Low Chroma w/ Mottles	<input type="checkbox"/> Sulfidic Odor
<input checked="" type="checkbox"/> Aquic Moisture Regime	<input type="checkbox"/> Concretions
<input type="checkbox"/> Listed on Local Hydric Soil List	<input type="checkbox"/> Other

Remarks: In shallow depression - saturated

Wetland Soils YES NO

HYDROLOGY

Inundated? Yes No Saturated? Yes No Depth of/to Free Water: 8"

<p>Primary Indicators:</p> <p><input type="checkbox"/> Inundated</p> <p><input checked="" type="checkbox"/> Saturated in Upper 12"</p> <p><input type="checkbox"/> Water Marks/Drift Lines</p> <p><input type="checkbox"/> Sediment Deposit</p> <p><input type="checkbox"/> Algal Matting</p> <p><input type="checkbox"/> Drainage Patterns in Wetlands</p>	<p>Secondary Indicators:</p> <p><input type="checkbox"/> Oxidized Root Channels in Upper 12"</p> <p><input type="checkbox"/> Water-Stained Leaves</p> <p><input type="checkbox"/> Local Soil Survey Data</p> <p><input type="checkbox"/> Other</p>
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Remarks: Saturated in shallow depression

Wetland Hydrology YES NO

WETLAND/WATERS DETERMINATION

Hydrophytic Vegetation Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Other Waters: Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
Hydric Soils Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Wetland: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Wetland Hydrology Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	

Remarks: Shallow depression, marginal

ROUTINE WETLAND DETERMINATION FORM

Project/Site: SRC Milling

Date:

Applicant: SRC Milling

Sample Point: 208

Investigators: JG/BA

County: Sacramento

State: California

Quad(s): Carmichael

Section 30 Township 8N Range 7E

Atypical Situation? Yes No

Potential Problem Area? Yes No

Normal Circumstances? Yes No

VEGETATION

Dominant Plant Species	% Cover	Status	Non-Dominant Plant Species	% Cover	Status
<i>Panicum boscianum</i>	40	-	<i>Nardus stricta</i>	5	FAC
<i>Taraxacum officinale</i>	40	FACU	<i>Erodium cicutarium</i>	5	-
			<i>Rathionia californica</i>	5	-
			<i>Salsola vermiculata</i>	5	-

Percentage of dominant species that are OBL, FACW, or FAC: 0 %

Remarks:
No indicators present

Wetland Vegetation YES NO

SOILS

Map Unit Name (Series/Phase): Red Bluff - Redding complex

Mottled? Yes No Gleyed? Yes No Matrix Color: 7.5 YR 3/4 Mottle Color: Faint, indistinct

Redoximorphic Features:

<input type="checkbox"/> Gleyed or Low Chroma Colors	<input type="checkbox"/> Reducing Conditions
<input type="checkbox"/> Low Chroma w/ Mottles	<input type="checkbox"/> Sulfidic Odor
<input type="checkbox"/> Aquic Moisture Regime	<input type="checkbox"/> Concretions
<input type="checkbox"/> Listed on Local Hydric Soil List	<input type="checkbox"/> Other

Remarks:
Soils marginal, lower profile may be wet.

Wetland Soils YES NO

HYDROLOGY

Inundated? Yes No Saturated? Yes No Depth of/to Free Water: _____

Primary Indicators: <input type="checkbox"/> Inundated <input type="checkbox"/> Saturated in Upper 12" <input type="checkbox"/> Water Marks/Drift Lines <input type="checkbox"/> Sediment Deposit <input type="checkbox"/> Algal Matting <input type="checkbox"/> Drainage Patterns in Wetlands	Secondary Indicators: <input type="checkbox"/> Oxidized Root Channels in Upper 12" <input type="checkbox"/> Water-Stained Leaves <input type="checkbox"/> Local Soil Survey Data <input type="checkbox"/> Other
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Remarks:
Swale with no wetland hydrology.

Wetland Hydrology YES NO

WETLAND/WATERS DETERMINATION

Hydrophytic Vegetation Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Hydric Soils Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> ?	Other Waters.: Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
Wetland Hydrology Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Wetland: Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	

Remarks:
Shallow swale connecting pools

ROUTINE WETLAND DETERMINATION FORM

Project/Site: SRC Milling

Date: May 1, 2003

Applicant: SRC Milling

Sample Point: 209

Investigators: JG/BA

County: Sacramento

State: California

Quad(s): Carmichael

Section 30 Township 8N Range 7E

Atypical Situation? Yes No

Potential Problem Area? Yes No

Normal Circumstances? Yes No

VEGETATION

Dominant Plant Species	% Cover	Status	Non-Dominant Plant Species	% Cover	Status
<u>Hordeum marianum</u>	<u>80</u>	<u>FAC</u>	<u>Drumstickia crinita</u>		<u>OBL</u>
			<u>Elymus sp.</u>		<u>FACW</u>
			<u>Ranunculus bispinus</u>		<u>OBL</u>
			<u>Volvin multiflorus</u>		<u>FAC</u>
			<u>Leontodon tarax.</u>		<u>-</u>

Percentage of dominant species that are OBL, FACW, or FAC: 100 %

Remarks:

Sub dominant to suggest wetland conditions.

Wetland Vegetation YES NO

SOILS

Map Unit Name (Series/Phase): Red Bluff - Redding complex

Mottled? Yes / No / Gleyed? Yes / No / Matrix Color: 10YR 3/4 Mottle Color: _____

Redoximorphic Features:

- | | |
|---|--|
| <input type="checkbox"/> Gleyed or Low Chroma Colors | <input type="checkbox"/> Reducing Conditions |
| <input type="checkbox"/> Low Chroma w/ Mottles | <input type="checkbox"/> Sulfidic Odor |
| <input checked="" type="checkbox"/> Aquic Moisture Regime | <input type="checkbox"/> Concretions |
| <input type="checkbox"/> Listed on Local Hydric Soil List | <input type="checkbox"/> Other |

Remarks:

Rocky, loamy - saturated at 10-12"

Wetland Soils YES NO

HYDROLOGY

Inundated? Yes No Saturated? Yes No Depth of/to Free Water: 10-12"

Primary Indicators:

Secondary Indicators

- | | |
|--|--|
| <input type="checkbox"/> Inundated | <input type="checkbox"/> Oxidized Root Channels in Upper 12" |
| <input checked="" type="checkbox"/> Saturated in Upper 12" | <input type="checkbox"/> Water-Stained Leaves |
| <input type="checkbox"/> Water Marks/Drift Lines | <input type="checkbox"/> Local Soil Survey Data |
| <input type="checkbox"/> Sediment Deposit | <input type="checkbox"/> Other |
| <input type="checkbox"/> Algal Matting | |
| <input type="checkbox"/> Drainage Patterns in Wetlands | |

Remarks:

Shallow water, marginal. Dig. 1 foot.

Wetland Hydrology YES NO

WETLAND/WATERS DETERMINATION

Hydrophytic Vegetation Present? Yes No
 Hydric Soils Present? Yes No
 Wetland Hydrology Present? Yes No

Other Waters.: Yes No
 Wetland: Yes No

Remarks:

Marginal water.

ROUTINE WETLAND DETERMINATION FORM

Project/Site: SRC Milling

Date: May 1, 2003

Applicant: SRC Milling

Sample Point: 210

Investigators: JG/BA

County: Sacramento

State: California

Quad(s): Carmichael

Section 30 Township 8N Range 7E

Atypical Situation? Yes No

Potential Problem Area? Yes No

Normal Circumstances? Yes No

VEGETATION

Dominant Plant Species	% Cover	Status	Non-Dominant Plant Species	% Cover	Status
<i>Vicia villosa</i>	40	-	<i>Leontodon tarax</i>		-
<i>Trifolium hirta</i>	30	-	<i>Erodium cicut</i>		-
<i>Prunus serotina</i>	20	FACW	<i>Lolium multiflor</i>		FAC
<i>Trifolium dubium</i>	20	FACW			

Percentage of dominant species that are OBL, FACW, or FAC: 0 %

Remarks: No indicators present

Wetland Vegetation YES NO

SOILS

Map Unit Name (Series/Phase): Red Bluff - Redding Complex

Mottled? Yes No

Gleyed? Yes No

Matrix Color: 7.5 YR 3/4

Mottle Color: Faint indication

Redoximorphic Features:

Gleyed or Low Chroma Colors

Reducing Conditions

Low Chroma w/ Mottles

Sulfidic Odor

Aquic Moisture Regime

Concretions

Listed on Local Hydric Soil List

Other

Remarks:

High chroma - topographic high point. Exposed, lean

Wetland Soils YES NO

HYDROLOGY

Inundated? Yes No Saturated? Yes No Depth of/ to Free Water:

Primary Indicators:

Secondary Indicators

Inundated

Oxidized Root Channels in Upper 12"

Saturated in Upper 12"

Water-Stained Leaves

Water Marks/Drift Lines

Local Soil Survey Data

Sediment Deposit

Other

Algal Matting

Drainage Patterns in Wetlands

Remarks:

No hydrology. Slope above shallow water

Wetland Hydrology YES NO

WETLAND/WATERS DETERMINATION

Hydrophytic Vegetation Present? Yes No

Hydric Soils Present? Yes No

Other Waters.: Yes No

Wetland Hydrology Present? Yes No

Wetland: Yes No

Remarks:

Slope above the water.

ROUTINE WETLAND DETERMINATION FORM

Project/Site: SRC Milling
 Applicant: SRC Milling
 Investigators: JG/BA

Date: May 1, 2003
 Sample Point: 211
 State: California
 Section 30 Township 8N Range 7E

Quad(s): Carmichael
 Atypical Situation? Yes No Potential Problem Area? Yes No Normal Circumstances? Yes No

VEGETATION

Dominant Plant Species	% Cover	Status	Non-Dominant Plant Species	% Cover	Status
<i>Trifolium hirtum</i>	40	-	<i>Bromus diandrus</i>		-
<i>Bromus hordeaceus</i>	40	FACU	<i>Trifolium dubium</i>		FACU
			<i>Erodium cicutarium</i>		-
			<i>Halimolobos</i>		-
			<i>Lernaeum lanatum</i>		-

Percentage of dominant species that are OBL, FACW, or FAC: 0 %
 Remarks: No indicators present
 Wetland Vegetation YES NO

SOILS

Map Unit Name (Series/Phase): Hedge Creek
 Mottled? Yes No Gleyed? Yes No Matrix Color: 10YR 3/4 Mottle Color:
 Redoximorphic Features:
 Gleyed or Low Chroma Colors Reducing Conditions
 Low Chroma w/ Mottles Sulfidic Odor
 Aquic Moisture Regime Concretions
 Listed on Local Hydric Soil List Other
 Remarks: Loamy. High chroma.
 Wetland Soils YES NO

HYDROLOGY

Inundated? Yes No Saturated? Yes No Depth of/to Free Water:
 Primary Indicators: Secondary Indicators
 Inundated Oxidized Root Channels in Upper 12"
 Saturated in Upper 12" Water-Stained Leaves
 Water Marks/Drift Lines Local Soil Survey Data
 Sediment Deposit Other
 Algal Matting
 Drainage Patterns in Wetlands
 Remarks: No hydrology above the creek floodplain.
 Wetland Hydrology YES NO

WETLAND/WATERS DETERMINATION

Hydrophytic Vegetation Present? Yes No
 Hydric Soils Present? Yes No
 Wetland Hydrology Present? Yes No
 Other Waters: Yes No
 Wetland: Yes No
 Remarks: Point above creek floodplain.

ROUTINE WETLAND DETERMINATION FORM

Project/Site: SRC Milling
 Applicant: SRC Milling
 Investigators: JG/BA
 Quad(s): *Carmichael*
 Atypical Situation? Yes No

County: Sacramento

Date: *May 1, 2003*
 Sample Point: 212
 State: California
 Section 30 Township 0N Range 7E
 Potential Problem Area? Yes No Normal Circumstances? Yes No

VEGETATION

Dominant Plant Species	% Cover	Status	Non-Dominant Plant Species	% Cover	Status
<i>Spartina maritima</i>	70	FAC	<i>Galium aparine</i>		OBL
<i>Ranunculus repens</i>	30	OBL	<i>Plantago arifolia</i>		OBL
			<i>Vulpia bromoides</i>		FACW

Percentage of dominant species that are OBL, FACW, or FAC: 100 %

Remarks:

Wetland Vegetation YES NO

SOILS

Map Unit Name (Series/Phase): *Hedge Creek*

Mottled? Yes / No Gleyed? Yes / No Matrix Color: *10YR 3/4* Mottle Color: *Faint, indistinct*

Redoximorphic Features:

<input type="checkbox"/> Gleyed or Low Chroma Colors	<input type="checkbox"/> Reducing Conditions
<input type="checkbox"/> Low Chroma w/ Mottles	<input type="checkbox"/> Sulfidic Odor
<input checked="" type="checkbox"/> Aquic Moisture Regime	<input type="checkbox"/> Concretions
<input type="checkbox"/> Listed on Local Hydric Soil List	<input type="checkbox"/> Other

Remarks: *Saturated at B-10"*

Wetland Soils YES NO

HYDROLOGY

Inundated? Yes No Saturated? Yes No Depth of/to Free Water: *B-10"*

Primary Indicators: <input type="checkbox"/> Inundated <input checked="" type="checkbox"/> Saturated in Upper 12" <input type="checkbox"/> Water Marks/Drift Lines <input type="checkbox"/> Sediment Deposit <input checked="" type="checkbox"/> Algal Matting <input type="checkbox"/> Drainage Patterns in Wetlands	Secondary Indicators: <input type="checkbox"/> Oxidized Root Channels in Upper 12" <input type="checkbox"/> Water-Stained Leaves <input type="checkbox"/> Local Soil Survey Data <input type="checkbox"/> Other
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Remarks: *Shallow depression*

Wetland Hydrology YES NO

WETLAND/WATERS DETERMINATION

Hydrophytic Vegetation Present? Yes No

Hydric Soils Present? Yes No

Wetland Hydrology Present? Yes No

Other Waters: Yes No

Wetland: Yes No

Remarks: *Depression in the Edge Creek floodplain. Separated from the creek by a narrow upland zone.*

ROUTINE WETLAND DETERMINATION FORM

Project/Site: SRC Milling

Date: May 1, 2003

Applicant: SRC Milling

Sample Point: 213

Investigators: JG/BA

County: Sacramento

State: California

Quad(s): Carrichael

Section 30 Township BN Range 7E

Atypical Situation? Yes No

Potential Problem Area? Yes No

Normal Circumstances? Yes No

VEGETATION

Dominant Plant Species	% Cover	Status	Non-Dominant Plant Species	% Cover	Status

Percentage of dominant species that are OBL, FACW, or FAC: _____ %

Remarks:

*Open water. No veg in channel.
Wetland conditions.*

Wetland Vegetation YES NO

SOILS

Map Unit Name (Series/Phase): Hedge Creek

Mottled? Yes / No Gleyed? Yes / No Matrix Color: _____ Mottle Color: _____

Redoximorphic Features:

- | | |
|---|--|
| <input type="checkbox"/> Gleyed or Low Chroma Colors | <input type="checkbox"/> Reducing Conditions |
| <input type="checkbox"/> Low Chroma w/ Mottles | <input type="checkbox"/> Sulfidic Odor |
| <input checked="" type="checkbox"/> Aquic Moisture Regime | <input type="checkbox"/> Concretions |
| <input type="checkbox"/> Listed on Local Hydric Soil List | <input type="checkbox"/> Other |

Remarks:

Inundated. 1-2 feet?

Wetland Soils YES NO

HYDROLOGY

Inundated? Yes No Saturated? Yes No Depth of/to Free Water: 1-2'?

Primary Indicators:

- Inundated
- Saturated in Upper 12"
- Water Marks/Drift Lines
- Sediment Deposit
- Algal Matting
- Drainage Patterns in Wetlands

Secondary Indicators

- Oxidized Root Channels in Upper 12"
- Water-Stained Leaves
- Local Soil Survey Data
- Other

Remarks:

Channel of creek.

Wetland Hydrology YES NO

WETLAND/WATERS DETERMINATION

Hydrophytic Vegetation Present? Yes No

Hydric Soils Present? Yes No

Wetland Hydrology Present? Yes No

Other Waters.: Yes No

Wetland: Yes No

Remarks:

*Center of Frege Creek. OHWM is 4-5 feet.
1 foot or less in most places.*

ROUTINE WETLAND DETERMINATION FORM

Project/Site: SRC Milling

Date: May 1, 2003

Applicant: SRC Milling

Sample Point: 214

Investigators: JG/BA

County: Sacramento

State: California

Quad(s): Carrichael

Section 30 Township 8N Range 7E

Atypical Situation? Yes No

Potential Problem Area? Yes No

Normal Circumstances? Yes No

VEGETATION

Dominant Plant Species	% Cover	Status	Non-Dominant Plant Species	% Cover	Status
<i>Promus hordeaceus</i>	60	FACU	<i>Trifolium dubium</i>		FACU
<i>Sulphia sp.</i>	30	-	<i>Erodium cicutarium</i>		-
			<i>Promus diandrus</i>		-
			<i>Lathyrus circa</i>		-

Percentage of dominant species that are OBL, FACW, or FAC: 0 %

Remarks:
No indicators present.

Wetland Vegetation YES NO

SOILS

Map Unit Name (Series/Phase): Eddymont fine sands, loam

Mottled? Yes No Gleyed? Yes No Matrix Color: 7.5 YR 3/4 Mottle Color: Very faint dark mottles

Redoximorphic Features:

<input type="checkbox"/> Gleyed or Low Chroma Colors	<input type="checkbox"/> Reducing Conditions
<input type="checkbox"/> Low Chroma w/ Mottles	<input type="checkbox"/> Sulfidic Odor
<input type="checkbox"/> Aquic Moisture Regime	<input type="checkbox"/> Concretions
<input type="checkbox"/> Listed on Local Hydric Soil List	<input type="checkbox"/> Other

Remarks:
High chroma, upland topography.

Wetland Soils YES NO

HYDROLOGY

Inundated? Yes No Saturated? Yes No Depth of/to Free Water:

Primary Indicators: <input type="checkbox"/> Inundated <input type="checkbox"/> Saturated in Upper 12" <input type="checkbox"/> Water Marks/Drift Lines <input type="checkbox"/> Sediment Deposit <input type="checkbox"/> Algal Matting <input type="checkbox"/> Drainage Patterns in Wetlands	Secondary Indicators: <input type="checkbox"/> Oxidized Root Channels in Upper 12" <input type="checkbox"/> Water-Stained Leaves <input type="checkbox"/> Local Soil Survey Data <input type="checkbox"/> Other
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Remarks:
No hydrology print about the channel.

Wetland Hydrology YES NO

WETLAND/WATERS DETERMINATION

Hydrophytic Vegetation Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Other Waters: Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
Hydric Soils Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Wetland: Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
Wetland Hydrology Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	

Remarks:
Print is above the creek floodplain.

ROUTINE WETLAND DETERMINATION FORM

Project/Site: SRC Milling Date: May 1, 2003
 Applicant: SRC Milling Sample Point: 215
 Investigators: JG/BA County: Sacramento State: California
 Quad(s): Carmichael Section 30 Township 8N Range 7E
 Atypical Situation? Yes No Potential Problem Area? Yes No Normal Circumstances? Yes No

VEGETATION

Dominant Plant Species	% Cover	Status	Non-Dominant Plant Species	% Cover	Status
<u>Juncus multiflorus</u>	<u>60</u>	<u>FAC</u>	<u>Plagiotyphus stip.</u>		<u>OBL</u>
<u>Glyceria occidentalis</u>	<u>20</u>	<u>OBL</u>			
<u>Hordeum marinum</u>	<u>20</u>	<u>FAC</u>			

Percentage of dominant species that are OBL, FACW, or FAC: 100 %
 Remarks:
Wetland Vegetation YES NO

SOILS

Map Unit Name (Series/Phase): Fiddymud fine sandy loam
 Mottled? Yes / No Gleyed? Yes / No Matrix Color: 7.5 YR 3/4 Mottle Color: small, faint orange and black mottles
 Redoximorphic Features:
 Gleyed or Low Chroma Colors Reducing Conditions
 Low Chroma w/ Mottles Sulfidic Odor
 Aquic Moisture Regime Concretions
 Listed on Local Hydric Soil List Other
 Remarks: Gleyed layer 2-4 down - mottled but not gleyed below. sands.
Wetland Soils YES NO

HYDROLOGY

Inundated? Yes No Saturated? Yes No Depth of/to Free Water: _____
 Primary Indicators: Secondary Indicators
 Inundated Oxidized Root Channels in Upper 12"
 Saturated in Upper 12" Water-Stained Leaves
 Water Marks/Drift Lines Local Soil Survey Data
 Sediment Deposit Other
 Algal Matting
 Drainage Patterns in Wetlands
 Remarks: Margin of wet area. Soil has strong indicators
Wetland Hydrology YES NO

WETLAND/WATERS DETERMINATION

Hydrophytic Vegetation Present? Yes No
 Hydric Soils Present? Yes No Other Waters.: Yes No
 Wetland Hydrology Present? Yes No Wetland: Yes No
 Remarks: point is near the upland/wetland edge.

ROUTINE WETLAND DETERMINATION FORM

Project/Site: SRC Milling
 Applicant: SRC Milling
 Investigators: JG/BA
 Quad(s): *Carmichael*
 Atypical Situation? Yes No

County: Sacramento

Date: '
 Sample Point: 216
 State: California
 Section 30 Township 8N Range 7E
 Potential Problem Area? Yes No Normal Circumstances? Yes No

VEGETATION

Dominant Plant Species	% Cover	Status	Non-Dominant Plant Species	% Cover	Status
<i>Triplaris sulcatum</i>	40	-	<i>Triplaris dubia</i>		FACW
<i>Panicum hirsutum</i>	40	FACW	<i>Triplaris dubia</i>		-
			<i>Scleria macrochaeta</i>		-
			<i>Hordearia</i>		-

Percentage of dominant species that are OBL, FACW, or FAC: 0 %

Remarks:
No indicators present

Wetland Vegetation YES NO

SOILS

Map Unit Name (Series/Phase): *Tiddymont fine sandy loam*

Mottled? Yes No Gleyed? Yes No Matrix Color: *7.5 YR 2.5/3* Mottle Color: *Indistinct orange mottles*

Redoximorphic Features:

<input type="checkbox"/> Gleyed or Low Chroma Colors	<input type="checkbox"/> Reducing Conditions
<input type="checkbox"/> Low Chroma w/ Mottles	<input type="checkbox"/> Sulfidic Odor
<input type="checkbox"/> Aquic Moisture Regime	<input type="checkbox"/> Concretions
<input type="checkbox"/> Listed on Local Hydric Soil List	<input type="checkbox"/> Other

Remarks:
High chroma on the upper edge.

Wetland Soils YES NO

HYDROLOGY

Inundated? Yes No Saturated? Yes No Depth of/to Free Water:

Primary Indicators: <input type="checkbox"/> Inundated <input type="checkbox"/> Saturated in Upper 12" <input type="checkbox"/> Water Marks/Drift Lines <input type="checkbox"/> Sediment Deposit <input type="checkbox"/> Algal Matting <input type="checkbox"/> Drainage Patterns in Wetlands	Secondary Indicators: <input type="checkbox"/> Oxidized Root Channels in Upper 12" <input type="checkbox"/> Water-Stained Leaves <input type="checkbox"/> Local Soil Survey Data <input type="checkbox"/> Other
--	--

Remarks:
Very wet but not saturated

Wetland Hydrology YES NO

WETLAND/WATERS DETERMINATION

Hydrophytic Vegetation Present? Yes No
 Hydric Soils Present? Yes No
 Wetland Hydrology Present? Yes No

Other Waters.: Yes No
 Wetland: Yes No

Remarks:
Upper margin of soil.

ROUTINE WETLAND DETERMINATION FORM

Project/Site: SRC Milling

Date: May 1, 2003

Applicant: SRC Milling

Sample Point: 217

Investigators: JG/BA

County: Sacramento

State: California

Quad(s): Carmichael

Section 30 Township 0N Range 7E

Atypical Situation? Yes No

Potential Problem Area? Yes No

Normal Circumstances? Yes No

VEGETATION

Dominant Plant Species	% Cover	Status	Non-Dominant Plant Species	% Cover	Status
<u>Plagiobothrys stip.</u>	<u>70</u>	<u>OBL</u>	<u>Deschampsia cesp.</u>		<u>FACW</u>
<u>Large grass</u>	<u>20</u>		<u>Hordeum marianum</u>		<u>FAC</u>
			<u>Lernedon juncea</u>		<u>-</u>

Percentage of dominant species that are OBL, FACW, or FAC: 100 %

Remarks:

Wetland Vegetation YES NO

SOILS

Map Unit Name (Series/Phase): Siddgrent fine sandy loam

Mottled? Yes / No / Gleyed? Yes / No / Matrix Color: _____ Mottle Color: _____

Redoximorphic Features:

<input type="checkbox"/> Gleyed or Low Chroma Colors	<input type="checkbox"/> Reducing Conditions
<input type="checkbox"/> Low Chroma w/ Mottles	<input type="checkbox"/> Sulfidic Odor
<input checked="" type="checkbox"/> Aquic Moisture Regime	<input type="checkbox"/> Concretions
<input type="checkbox"/> Listed on Local Hydric Soil List	<input type="checkbox"/> Other

Remarks: Saturated at 6-8"

Wetland Soils YES NO

HYDROLOGY

Inundated? Yes No Saturated? Yes No Depth of/to Free Water: 6-8"

Primary Indicators: <input type="checkbox"/> Inundated <input checked="" type="checkbox"/> Saturated in Upper 12" <input type="checkbox"/> Water Marks/Drift Lines <input type="checkbox"/> Sediment Deposit <input type="checkbox"/> Algal Matting <input type="checkbox"/> Drainage Patterns in Wetlands	Secondary Indicators: <input type="checkbox"/> Oxidized Root Channels in Upper 12" <input type="checkbox"/> Water-Stained Leaves <input type="checkbox"/> Local Soil Survey Data <input type="checkbox"/> Other
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Remarks: Saturated

Wetland Hydrology YES NO

WETLAND/WATERS DETERMINATION

Hydrophytic Vegetation Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Other Waters.: Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
Hydric Soils Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Wetland: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Wetland Hydrology Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	

Remarks: Lower edge of marsh

ROUTINE WETLAND DETERMINATION FORM

Project/Site: SRC Milling

Date: May 1, 2003

Applicant: SRC Milling

Sample Point: 218

Investigators: JG/BA

County: Sacramento

State: California

Quad(s): Carmichael

Section 30 Township 6N Range 7E

Atypical Situation? Yes No Potential Problem Area? Yes No Normal Circumstances? Yes No

VEGETATION

Dominant Plant Species	% Cover	Status	Non-Dominant Plant Species	% Cover	Status
<i>Hydrus maritima</i>	30	FAC	<i>Erodium cicutarium</i>		-
<i>Bromus hordeaceus</i>	30	-	<i>Lathyrus pratensis</i>		-
<i>Valeriana thymus c-m</i>	30	-	<i>Holcus lanatus</i>		-
			<i>Leontodon virens</i>		-

Percentage of dominant species that are OBL, FACW, or FAC: 30 %

Remarks: Sub-dominants suggest riparian conditions

Wetland Vegetation YES NO

SOILS

Map Unit Name (Series/Phase): *Uddington fine sand, 100%*

Mottled? Yes No Gleyed? Yes No Matrix Color: *7.5YR 3/4* Mottle Color: _____

Redoximorphic Features:

<input type="checkbox"/> Gleyed or Low Chroma Colors	<input type="checkbox"/> Reducing Conditions
<input type="checkbox"/> Low Chroma w/ Mottles	<input type="checkbox"/> Sulfidic Odor
<input type="checkbox"/> Aquic Moisture Regime	<input type="checkbox"/> Concretions
<input type="checkbox"/> Listed on Local Hydric Soil List	<input type="checkbox"/> Other

Remarks: High chroma

Wetland Soils YES NO

HYDROLOGY

Inundated? Yes No Saturated? Yes No Depth of/to Free Water: _____

Primary Indicators	Secondary Indicators
<input type="checkbox"/> Inundated	<input type="checkbox"/> Oxidized Root Channels in Upper 12"
<input type="checkbox"/> Saturated in Upper 12"	<input type="checkbox"/> Water-Stained Leaves
<input type="checkbox"/> Water Marks/Drift Lines	<input type="checkbox"/> Local Soil Survey Data
<input type="checkbox"/> Sediment Deposit	<input type="checkbox"/> Other
<input type="checkbox"/> Algal Matting	
<input type="checkbox"/> Drainage Patterns in Wetlands	

Remarks: No hydrology. Slope above water.

Wetland Hydrology YES NO

WETLAND/WATERS DETERMINATION

Hydrophytic Vegetation Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Other Waters.: Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
Hydric Soils Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Wetland: Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
Wetland Hydrology Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	

Remarks: point is higher than water.

ROUTINE WETLAND DETERMINATION FORM

Project/Site: SRC Milling

Date: May 1, 2003

Applicant: SRC Milling

Sample Point: 219

Investigators: JG/BA

County: Sacramento

State: California

Quad(s): Charming

Section 30 Township 0N Range 7E

Atypical Situation? Yes No Potential Problem Area? Yes No Normal Circumstances? Yes No

VEGETATION

Dominant Plant Species	% Cover	Status	Non-Dominant Plant Species	% Cover	Status
<i>Taraxacum officinale</i>	50	-	<i>Baccharis verticillata</i>		-
<i>Leontodon tarax.</i>	20	-	<i>Prima minor</i>		FACW-
<i>Hordeum marianum</i>	20	FAC	<i>Ceratium g. linearis</i>		-
			<i>Hordeum sp.</i>		-

Percentage of dominant species that are OBL, FACW, or FAC: 30 %

Remarks:

Wetland Vegetation YES NO

SOILS

Map Unit Name (Series/Phase): Fiddymont fine sandier loam

Mottled? (Yes) No Gleyed? Yes No Matrix Color: 7.5 YR 3/3 Mottle Color: Very faint mottles

Redoximorphic Features:

<input type="checkbox"/> Gleyed or Low Chroma Colors	<input type="checkbox"/> Reducing Conditions
<input type="checkbox"/> Low Chroma w/ Mottles	<input type="checkbox"/> Sulfidic Odor
<input type="checkbox"/> Aquic Moisture Regime	<input type="checkbox"/> Concretions
<input type="checkbox"/> Listed on Local Hydric Soil List	<input type="checkbox"/> Other

Remarks: Soils are marginal chroma is still high, but 1 point darker than point 218

Wetland Soils YES NO

HYDROLOGY

Inundated? Yes No Saturated? Yes No Depth of/to Free Water:

Primary Indicators: <input type="checkbox"/> Inundated <input type="checkbox"/> Saturated in Upper 12" <input type="checkbox"/> Water Marks/Drift Lines <input type="checkbox"/> Sediment Deposit <input type="checkbox"/> Algal Matting <input type="checkbox"/> Drainage Patterns in Wetlands	Secondary Indicators: <input type="checkbox"/> Oxidized Root Channels in Upper 12" <input type="checkbox"/> Water-Stained Leaves <input type="checkbox"/> Local Soil Survey Data <input type="checkbox"/> Other
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Remarks: No hydrology. even below 14-16". Very shallow a water.

Wetland Hydrology YES NO

WETLAND/WATERS DETERMINATION

Hydrophytic Vegetation Present? Yes No

Hydric Soils Present? Yes No

Wetland Hydrology Present? Yes No

Other Waters.: Yes No

Wetland: Yes No

Remarks: Upland swale that receives sheet flow from surrounding areas.

ROUTINE WETLAND DETERMINATION FORM

Project/Site: SRC Milling

Date: May 1, 2003

Applicant: SRC Milling

Sample Point: 220

Investigators: JG/BA

County: Sacramento

State: California

Quad(s): Carmichael

Section 30 Township 0N Range 7E

Atypical Situation? Yes No

Potential Problem Area? Yes No

Normal Circumstances? Yes No

VEGETATION

Dominant Plant Species	% Cover	Status	Non-Dominant Plant Species	% Cover	Status
<i>Promus hordeaceus</i>	50	FACU	<i>Arisaema canadense</i>		-
<i>Taraxacum officinale</i>	20	-	<i>Lernaeum taraxacum</i>		-
<i>Taraxacum dubium</i>	20	FACU			

Percentage of dominant species that are OBL, FACW, or FAC: 0 %

Remarks:

No indicators present

Wetland Vegetation YES NO

SOILS

Map Unit Name (Series/Phase): Red Bluffs - Redding complex

Mottled? Yes No

Gleyed? Yes No

Matrix Color: 10 YR 3/4

Mottle Color:

very faint brownish mottles

Redoximorphic Features:

- Gleyed or Low Chroma Colors
- Low Chroma w/ Mottles
- Aquic Moisture Regime
- Listed on Local Hydric Soil List

- Reducing Conditions
- Sulfidic Odor
- Concretions
- Other

Remarks:

chroma is high.

Wetland Soils YES NO

HYDROLOGY

Inundated? Yes No Saturated? Yes No Depth of/to Free Water:

Primary Indicators:

- Inundated
- Saturated in Upper 12"
- Water Marks/Drift Lines
- Sediment Deposit
- Algal Matting
- Drainage Patterns in Wetlands

Secondary Indicators

- Oxidized Root Channels in Upper 12"
- Water-Stained Leaves
- Local Soil Survey Data
- Other

Remarks:

No hydrology.

Wetland Hydrology YES NO

WETLAND/WATERS DETERMINATION

Hydrophytic Vegetation Present? Yes No

Hydric Soils Present? Yes No

Wetland Hydrology Present? Yes No

Other Waters.: Yes No

Wetland: Yes No

Remarks:

outside of pool edge.

ROUTINE WETLAND DETERMINATION FORM

Project/Site: SRC Milling

Date: May 1, 2003

Applicant: SRC Milling

Sample Point: 221

Investigators: JG/BA

County: Sacramento

State: California

Quad(s): Carmichael

Section 30 Township 9N Range 7E

Atypical Situation? Yes No

Potential Problem Area? Yes No

Normal Circumstances? Yes No

VEGETATION

Dominant Plant Species	% Cover	Status	Non-Dominant Plant Species	% Cover	Status
<i>Glycerhiza</i>	40		<i>Lesqueris pinnatifida</i>		OBL
<i>glycyrrhiza oclid.</i>	30	OBL	<i>Plasiorhiza stip-</i>		OBL
<i>Ranunculus</i>	30	OBL			

Percentage of dominant species that are OBL, FACW, or FAC: 100 %

Remarks:

All species are indicators

Wetland Vegetation YES NO

SOILS

Map Unit Name (Series/Phase): Red Bluff - Redding Complex

Mottled? Yes / No Gleyed? Yes / No Matrix Color: Mottle Color:

Redoximorphic Features:

<input type="checkbox"/> Gleyed or Low Chroma Colors	<input type="checkbox"/> Reducing Conditions
<input type="checkbox"/> Low Chroma w/ Mottles	<input type="checkbox"/> Sulfidic Odor
<input checked="" type="checkbox"/> Aquic Moisture Regime	<input type="checkbox"/> Concretions
<input type="checkbox"/> Listed on Local Hydric Soil List	<input type="checkbox"/> Other

Remarks:

Inundated

Wetland Soils YES NO

HYDROLOGY

Inundated? Yes No Saturated? Yes No Depth of/to Free Water: 2-4"

<p>Primary Indicators:</p> <p><input checked="" type="checkbox"/> Inundated</p> <p><input type="checkbox"/> Saturated in Upper 12"</p> <p><input type="checkbox"/> Water Marks/Drift Lines</p> <p><input type="checkbox"/> Sediment Deposit</p> <p><input type="checkbox"/> Algal Matting</p> <p><input type="checkbox"/> Drainage Patterns in Wetlands</p>	<p>Secondary Indicators</p> <p><input type="checkbox"/> Oxidized Root Channels in Upper 12"</p> <p><input type="checkbox"/> Water-Stained Leaves</p> <p><input type="checkbox"/> Local Soil Survey Data</p> <p><input type="checkbox"/> Other</p>
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Remarks:

Center of pool is deeper

Wetland Hydrology YES NO

WETLAND/WATERS DETERMINATION

Hydrophytic Vegetation Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Other Waters.: Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
Hydric Soils Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Wetland: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Wetland Hydrology Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	

Remarks:

Edge of pool.

ROUTINE WETLAND DETERMINATION FORM

Project/Site: SRC Milling

Date: _____
Sample Point: 222

Applicant: SRC Milling

County: Sacramento

State: California

Investigators: JG/BA

Section 30 Township BN Range 75

Quad(s): Carmichael

Atypical Situation? Yes No Potential Problem Area? Yes No Normal Circumstances? Yes No

VEGETATION

Dominant Plant Species	% Cover	Status	Non-Dominant Plant Species	% Cover	Status
<u>Hordeum marinum</u>	<u>30</u>	<u>FAC</u>	<u>Lotus multiflorus</u>		<u>FAC</u>
<u>Burmus hederaceus</u>	<u>20</u>	<u>-</u>	<u>Lathyrus circaea</u>		<u>-</u>
<u>Trifolium dubium</u>	<u>30</u>	<u>FACU</u>	<u>Erodium cicutarium</u>		<u>-</u>
			<u>Leontodon tarax.</u>		<u>-</u>

Percentage of dominant species that are OBL, FACW, or FAC: 30 %

Remarks:
Substrata suggest upland conditions

Wetland Vegetation YES NO

SOILS

Map Unit Name (Series/Phase): Red Bluff-Redding Complex.

Mottled? Yes No Gleyed? Yes No Matrix Color: 10YR 3/4 Mottle Color: faint dark mottles

Redoximorphic Features:

<input type="checkbox"/> Gleyed or Low Chroma Colors	<input type="checkbox"/> Reducing Conditions
<input type="checkbox"/> Low Chroma w/ Mottles	<input type="checkbox"/> Sulfidic Odor
<input type="checkbox"/> Aquic Moisture Regime	<input type="checkbox"/> Concretions
<input type="checkbox"/> Listed on Local Hydric Soil List	<input type="checkbox"/> Other

Remarks:
Marginal, high chroma

Wetland Soils YES NO

HYDROLOGY

Inundated? Yes No Saturated? Yes No Depth of/to Free Water: _____

Primary Indicators: <input type="checkbox"/> Inundated <input type="checkbox"/> Saturated in Upper 12" <input type="checkbox"/> Water Marks/Drift Lines <input type="checkbox"/> Sediment Deposit <input type="checkbox"/> Algal Matting <input type="checkbox"/> Drainage Patterns in Wetlands	Secondary Indicators: <input type="checkbox"/> Oxidized Root Channels in Upper 12" <input type="checkbox"/> Water-Stained Leaves <input type="checkbox"/> Local Soil Survey Data <input type="checkbox"/> Other
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Remarks:
No hydrology. Swale.

Wetland Hydrology YES NO

WETLAND/WATERS DETERMINATION

Hydrophytic Vegetation Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Hydric Soils Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Wetland Hydrology Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Other Waters.: Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
Wetland: Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>			

Remarks:
print is in a swale connecting pools.

ROUTINE WETLAND DETERMINATION FORM

Project/Site: SRC Milling
 Applicant: SRC Milling
 Investigators: JG/PB
 Quad(s): Carmichael

County: Sacramento

Date: October 14, 2008
 Sample Point: 301
 State: California
 Section 24 Township 8N Range 7E

Atypical Situation? Yes No Potential Problem Area? Yes No Normal Circumstances? Yes No

VEGETATION

Dominant Plant Species	% Cover	Status	Non-Dominant Plant Species	% Cover	Status
Hordeum marinum	30	FAC	Lythrum hyssopifolium	5	FACW
Lolium multiflorum	20	FAC*	Rumex crispus	5	FACW-
			Leontodon taxaracoides	5	--
			Taeniantherum caput-medusae	5	--
			Vicia villosa	5	--

Percentage of dominant species that are OBL, FACW, or FAC: 100 %

Remarks:
 Weedy flora dominated by facultative grasses.

Wetland Vegetation YES NO

SOILS

Map Unit Name (Series/Phase): Fiddymment fine sandy loam

Mottled? Yes / No Gleyed? Yes / No Matrix Color: 7.5 YR 3/3 Mottle Color: faint

Redoximorphic Features:

<input type="checkbox"/> Gleyed or Low Chroma Colors	<input type="checkbox"/> Reducing Conditions
<input type="checkbox"/> Low Chroma w/ Mottles	<input type="checkbox"/> Sulfidic Odor
<input type="checkbox"/> Aquic Moisture Regime	<input type="checkbox"/> Concretions
<input type="checkbox"/> Listed on Local Hydric Soil List	<input type="checkbox"/> Other

Remarks:
 Disturbed soils. Do not meet hydric criteria.

Wetland Soils YES NO

HYDROLOGY

Inundated? Yes No Saturated? Yes No Depth of/to Free Water: _____

Primary Indicators: <input type="checkbox"/> Inundated <input type="checkbox"/> Saturated in Upper 12" <input type="checkbox"/> Water Marks/Drift Lines <input type="checkbox"/> Sediment Deposit <input type="checkbox"/> Algal Matting <input type="checkbox"/> Drainage Patterns in Wetlands	Secondary Indicators: <input checked="" type="checkbox"/> Oxidized Root Channels in Upper 12" <input type="checkbox"/> Water-Stained Leaves <input type="checkbox"/> Local Soil Survey Data <input type="checkbox"/> Other
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Remarks:
 Very shallow depressional area. Does not appear to support prolonged saturation.

Wetland Hydrology YES NO

WETLAND/WATERS DETERMINATION

Hydrophytic Vegetation Present?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Other Waters.: Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
Hydric Soils Present?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Wetland: Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
Wetland Hydrology Present?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	

Remarks:
 Disturbed suspect area. Appears to lack wetland hydrology.

ROUTINE WETLAND DETERMINATION FORM

Project/Site: SRC Milling

Date: May 20, 2003

Applicant: SRC Milling

Sample Point: 303

Investigators: JG/BA

County: Sacramento

State: California

Quad(s): Buttalo Creek

Section 30 Township 3N Range 7E

Atypical Situation? Yes No Potential Problem Area? Yes No Normal Circumstances? Yes No

VEGETATION

Dominant Plant Species	% Cover	Status	Non-Dominant Plant Species	% Cover	Status
<i>Trifolium subterraneum</i>	60	-	<i>Trifolium glomeratum</i>		-
<i>Hordeum marianum</i>	30	FACW	<i>Bromus hordeaceus</i>		FACW-
			<i>Erodium botrys</i>		-
			<i>Holcus sp.</i>		-
			<i>Cerastium glom.</i>		-
			<i>Hordeum sp.</i>		-

Percentage of dominant species that are OBL, FACW, or FAC: 50 %

Remarks: Marginal. Subdominants suggest wetlands

Wetland Vegetation YES NO

SOILS

Map Unit Name (Series/Phase): Fiddymont fine sandy loam

Mottled? Yes No Gleyed? Yes No Matrix Color: 7.5 YR 3/4 Mottle Color: _____

Redoximorphic Features:

<input type="checkbox"/> Gleyed or Low Chroma Colors	<input type="checkbox"/> Reducing Conditions
<input type="checkbox"/> Low Chroma w/ Mottles	<input type="checkbox"/> Sulfidic Odor
<input type="checkbox"/> Aquic Moisture Regime	<input type="checkbox"/> Concretions
<input type="checkbox"/> Listed on Local Hydric Soil List	<input type="checkbox"/> Other

Remarks: No indicators present

Wetland Soils YES NO

HYDROLOGY

Inundated? Yes No Saturated? Yes No Depth of/to Free Water: _____

Primary Indicators: <input type="checkbox"/> Inundated <input type="checkbox"/> Saturated in Upper 12" <input type="checkbox"/> Water Marks/Drift Lines <input type="checkbox"/> Sediment Deposit <input type="checkbox"/> Algal Matting <input type="checkbox"/> Drainage Patterns in Wetlands	Secondary Indicators: <input type="checkbox"/> Oxidized Root Channels in Upper 12" <input type="checkbox"/> Water-Stained Leaves <input type="checkbox"/> Local Soil Survey Data <input type="checkbox"/> Other
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Remarks: Shallow swale No hydrology indication present

Wetland Hydrology YES NO

WETLAND/WATERS DETERMINATION

Hydrophytic Vegetation Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Other Waters.: Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
Hydric Soils Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Wetland: Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
Wetland Hydrology Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	

Remarks: Swale, no bed or bank. Lacks veg.

ROUTINE WETLAND DETERMINATION FORM

Project/Site: SRC Milling

Date: May 20, 2003

Applicant: SRC Milling

Sample Point: 304

Investigators: JG/BA

County: Sacramento

State: California

Quad(s): Buffalo Creek

Section 30 Township 32N Range 7E

Atypical Situation? Yes No

Potential Problem Area? Yes No

Normal Circumstances? Yes No

VEGETATION

Dominant Plant Species	% Cover	Status	Non-Dominant Plant Species	% Cover	Status
<i>Lectydes coccinea</i>	30	-	<i>Holcus sp. variegata</i>		-
<i>Trifolium histricum</i>	30	-	<i>Trifolium dubium</i>		FACW
<i>Poa annua</i>	30	FAC	<i>Erodium cicutarium</i>		-
			<i>Bromus hordeaceus</i>		FACW

Percentage of dominant species that are OBL, FACW, or FAC: 33 %

Remarks:

Wetland Vegetation YES NO

SOILS

Map Unit Name (Series/Phase): Fiddymont fine sandy loam

Mottled? Yes No Gleyed? Yes No Matrix Color: 7.5 YR 3/4 Mottle Color: Brownish, very faint, indistinct

Redoximorphic Features:

<input type="checkbox"/> Gleyed or Low Chroma Colors	<input type="checkbox"/> Reducing Conditions
<input type="checkbox"/> Low Chroma w/ Mottles	<input type="checkbox"/> Sulfidic Odor
<input type="checkbox"/> Aquic Moisture Regime	<input type="checkbox"/> Concretions
<input type="checkbox"/> Listed on Local Hydric Soil List	<input type="checkbox"/> Other

Remarks: High chroma

Wetland Soils YES NO

HYDROLOGY

Inundated? Yes No Saturated? Yes No Depth of/to Free Water: _____

<p>Primary Indicators:</p> <p><input type="checkbox"/> Inundated</p> <p><input type="checkbox"/> Saturated in Upper 12"</p> <p><input type="checkbox"/> Water Marks/Drift Lines</p> <p><input type="checkbox"/> Sediment Deposit</p> <p><input type="checkbox"/> Algal Matting</p> <p><input type="checkbox"/> Drainage Patterns in Wetlands</p>	<p>Secondary Indicators</p> <p><input type="checkbox"/> Oxidized Root Channels in Upper 12"</p> <p><input type="checkbox"/> Water-Stained Leaves</p> <p><input type="checkbox"/> Local Soil Survey Data</p> <p><input type="checkbox"/> Other</p>
--	---

Remarks: Swale. No indicators present.

Wetland Hydrology YES NO

WETLAND/WATERS DETERMINATION

Hydrophytic Vegetation Present?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Other Waters.: Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
Hydric Soils Present?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Wetland: Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
Wetland Hydrology Present?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	

Remarks: Upland swale. No bed or seep marks.

ROUTINE WETLAND DETERMINATION FORM

Project/Site: SRC Milling

Date: May 20, 2003

Applicant: SRC Milling

Sample Point: 705

Investigators: JG/BA

County: Sacramento

State: California

Quad(s): Buffalo Creek

Section 30 Township BN Range 7E

Atypical Situation? Yes No

Potential Problem Area? Yes No

Normal Circumstances? Yes No

VEGETATION

Dominant Plant Species	% Cover	Status	Non-Dominant Plant Species	% Cover	Status
<u>Hordium marianum</u>	<u>80</u>	<u>FAC</u>	<u>Lolium sp.</u>		<u>FAC</u>
			<u>Plagiobothrys stip.</u>		<u>OBL</u>
			<u>Junco bufonius</u>		<u>FACW</u>
			<u>Bromus hordeaceus</u>		<u>FACU-</u>
			<u>Tritolium subsp.</u>		<u>-</u>

Percentage of dominant species that are OBL, FACW, or FAC: 100%

Remarks: mixed veg.

Wetland Vegetation YES NO

SOILS

Map Unit Name (Series/Phase): Fiddymont fine sandy loam

Mottled? Yes / No Gleyed? Yes / No Matrix Color: 7.5YR 7/3 Mottle Color: Orange, mottling indistinct.

Redoximorphic Features:

<input type="checkbox"/> Gleyed or Low Chroma Colors	<input type="checkbox"/> Reducing Conditions
<input type="checkbox"/> Low Chroma w/ Mottles	<input type="checkbox"/> Sulfidic Odor
<input type="checkbox"/> Aquic Moisture Regime	<input type="checkbox"/> Concretions
<input type="checkbox"/> Listed on Local Hydric Soil List	<input type="checkbox"/> Other

Remarks: Fairly low chroma, many mottles

Wetland Soils YES NO

HYDROLOGY

Inundated? Yes No Saturated? Yes No Depth of/to Free Water: _____

<p>Primary Indicators:</p> <p><input type="checkbox"/> Inundated</p> <p><input type="checkbox"/> Saturated in Upper 12"</p> <p><input type="checkbox"/> Water Marks/Drift Lines</p> <p><input type="checkbox"/> Sediment Deposit</p> <p><input type="checkbox"/> Algal Matting</p> <p><input type="checkbox"/> Drainage Patterns in Wetlands</p>	<p>Secondary Indicators</p> <p><input checked="" type="checkbox"/> Oxidized Root Channels in Upper 12"</p> <p><input type="checkbox"/> Water-Stained Leaves</p> <p><input type="checkbox"/> Local Soil Survey Data</p> <p><input type="checkbox"/> Other</p>
--	--

Remarks: Swale. Marginal mottles.

Wetland Hydrology YES NO

WETLAND/WATERS DETERMINATION

Hydrophytic Vegetation Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Other Waters.: Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
Hydric Soils Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Wetland: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Wetland Hydrology Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	

Remarks: Marginal wetland swale

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**WETLAND DELINEATION
FOR THE
±800-ACRE SRC MILLING PROPERTY**

INTRODUCTION

North Fork Associates conducted a wetland delineation of the ±800-acre SRC Milling Company property located in southern Sacramento County, California. The rendering plant is located southwest of the intersection of Sunrise and Kiefer Boulevards. The Folsom South Canal borders the eastern boundary and a portion of Eagle's Nest Road forms the western boundary. The property is located in portions of Sections 19, 24, 25, and 30 in Township 8 north and Ranges 6 and 7 east on the Carmichael, CA and Buffalo Creek, CA 7 ½ minute USGS quadrangles. The latitude and longitude of the approximate center of the site are 38.52005° north and 121.25515° west.

The property is in the gently rolling to almost flat portion of the southern and eastern Sacramento Valley at elevations between 125 and 150 feet above sea level. Past disking and other surface disturbances are discernable on the aerials, but are less obvious on the ground. The rendering plant occupies approximately 800 acres, most of which is developed or highly manipulated for industrial uses. Two main drainageways flowing to the west and southwest occur on portions of the site. Surrounding land uses are almost entirely agriculture, primarily cattle grazing. The former Mather Air Force Base is located north of Kiefer Boulevard.

Directions: From Sacramento, take US50 east. Take the Howe Avenue exit, and turn right onto Howe Avenue. Turn left onto Folsom Boulevard and then right onto Jackson Boulevard. In about nine miles turn left onto Sunrise Boulevard and then left onto Kiefer Boulevard. The study area is located approximately 0.5 mile on Kiefer Boulevard. The site is accessed through the Sacramento Rendering Company located at 11350 Kiefer Boulevard.

CONTACT INFORMATION

Property Owner:
SRC Milling Company
11350 Kiefer Boulevard
Sacramento, CA 95830
Phone: (916) 363-4821
Fax: (916) 363-8641
Contact: Mr. Michael Koewler

Delineator:
North Fork Associates
110 Maple Street
Auburn, California 95603
Phone: (530) 887-8500
Fax: (530) 887-1250
Contact: Jeff Glazner or Pat Britton

METHODOLOGY

While conducting the delineation, North Fork Associates biologists reviewed aerial photos, topographic maps, and other information about the SRC property. Several aerials were used, during the delineation, including those taken on April 1998, January 2003, March 2003, April 2003, August 2005, and May 2006. R.E.Y. Engineers provided a topographic map with one-foot contours as a CAD file. Soils information was taken from the *Soil Survey of Sacramento County, California* (USDA 1993).

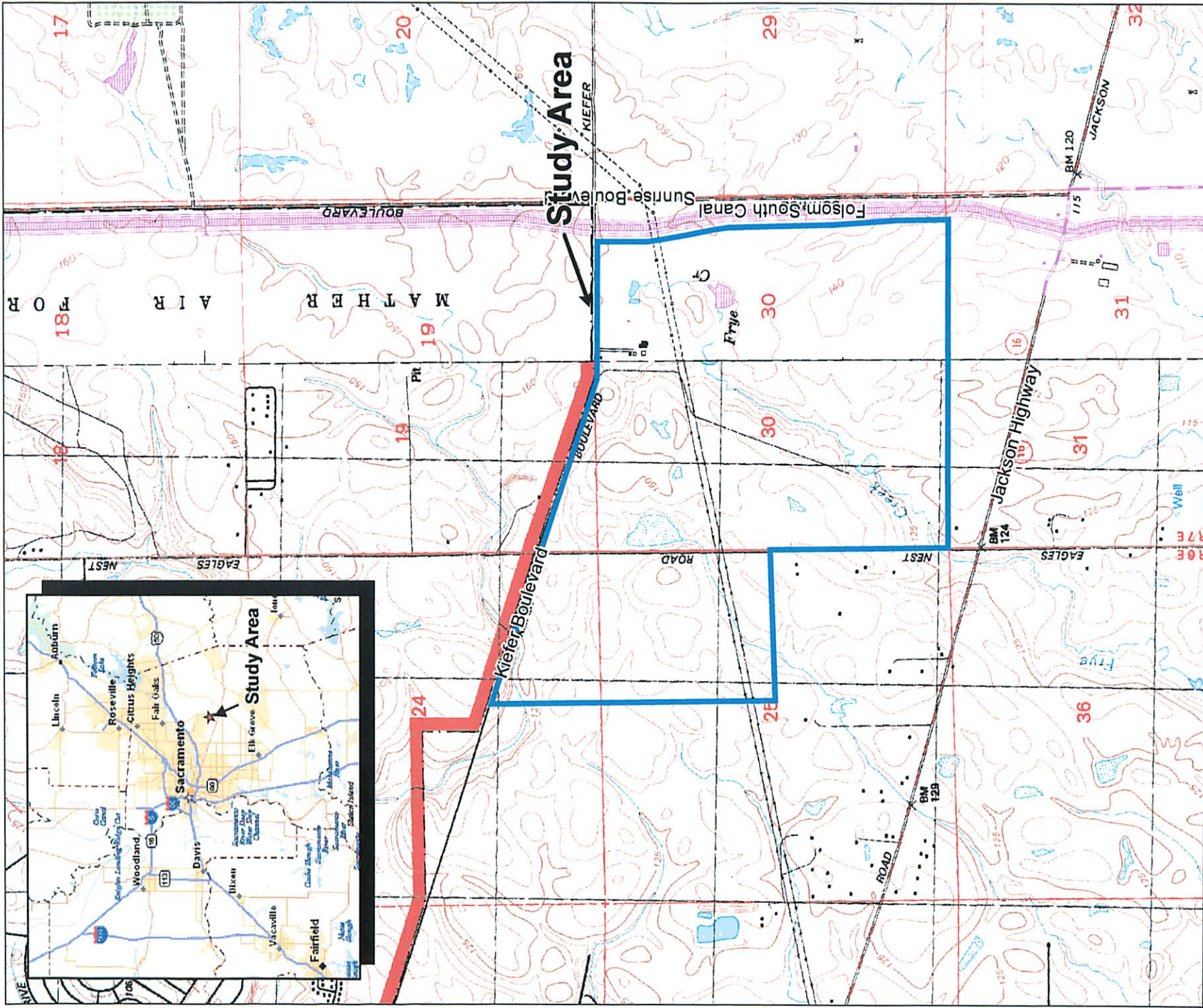


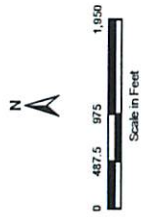
Figure 1

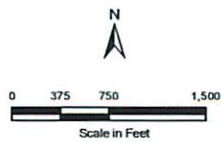
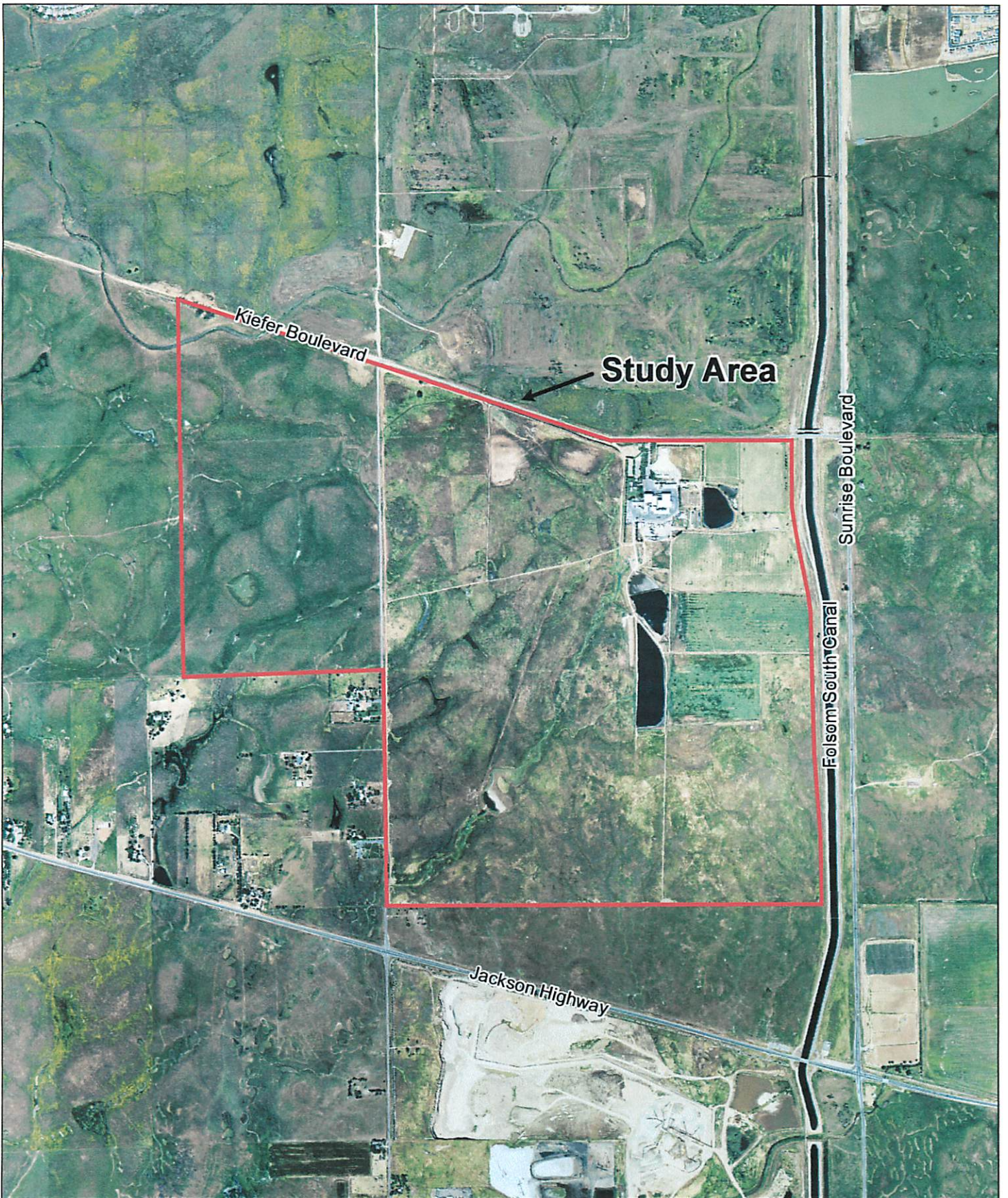
Site & Vicinity

SRC Milling Property

Sacramento County, CA

NOTES:
 Base map: Carmichael, CA, USGS
 7.5 minute topographic quadrangle
 Sections: 19, 24, 25, and 30
 Township: 8N
 Ranges: 6E & 7E





NOTES:
Aerial Photo Date: May 2006

Figure 2

AERIAL PHOTO
SRC Milling Property
Sacramento County, CA

Preliminary site visit was made to the site in January 2003. Subsequent delineation surveys took place on March 27, April 9, April 14, April 22, May 1, May 20, and June 17, 2003. Spring rains caused many of the pools to retain water until very late into the spring, thereby making it relatively easy to determine the edge of most wetlands.

The wetland delineation was submitted to the Corps in 2003 and the verification process began in November 2003. The project went on hold and the verification process suspended. The project reactivated in 2008 and we conducted two days (October 13, and 14 2008) of field checking and adjusting the 2003 wetland delineation.

Jeff Glazner, Barry Anderson, and Pat Britton were the primary investigators. The delineation was initially conducted only according to the 1987 Corps of Engineers Wetland Delineation Manual (Environmental Laboratory 1987), however, the field work conducted in 2008 took into account the Arid West Regional Supplement (U.S. Army Corps of Engineers 2006). We dug over 60 pits to examine soil characteristics that were used to refine wetland edges. At 46 sampling points we recorded information about vegetation, soils, and hydrology (wetland data sheets are located in Appendix A). The locations of data points, waters of the United States, and other features were recorded with a Trimble GeoXT and GeoXH global positioning system (GPS) with sub-meter accuracy. All features determined to be waters of the United States were mapped using the GPS. Where possible, a Polaris six wheel all terrain vehicle was used to expedite data gathering. The vehicle was not used for small wetlands. Because of continuous cattle grazing on the site, data points were not marked with pin flags, nor were the wetlands outlined with flags. The data points as shown on the wetland delineation map are not strictly sequential. Instead, each series represents a different survey date.

Common plant names are used in this document. Appendix B provides a list of plants observed during the delineation, along with the scientific name and wetland status of each species. Scientific names follow The Jepson Manual (Hickman 1993), as updated by the Jepson Interchange, an online database maintained by the University of California and Jepson Herbaria. The wetland status for species observed was taken from Reed (1988).

The GPS data were corrected in the office using the nearest available base station. R.E.Y Engineers supplied a topographic map, which was combined with a May 2006 aerial photograph in ArcGIS to create the wetland delineation map in Appendix C. Appendix D contains a CD ROM with the electronic files in ArcView shape format.

RESULTS

Climate

The Natural Resources Conservation Service (NRCS) weather station located closest to the site is in the city of Sacramento (WETS Station: Sacramento WSC City, CA7633). Data from this station is presented here as a reasonable approximation of climate conditions at the site (SRC Milling is slightly higher in elevation).

The mean annual air temperature at the NRCS station in Sacramento is 63.23°F and the growing season is typically year-round. Mean annual precipitation (29-year period of record) is 19.59 inches, with most falling as rain between the months of November and April.

Soils

Seven soil units have been mapped on the study site (Figure 3):

- Fiddymment fine sandy loam, 1 to 8 percent slopes;
- Hedge loam, 0 to 2 percent slopes;
- Red Bluff loam, 0 to 2 percent slopes, and 2 to 5 percent slopes;
- Red Bluff-Redding complex, 0 to 5 percent slopes;
- Red Bluff-Xerarents complex, 0 to 2 percent slopes; and
- Redding gravelly loam, 0 to 8 percent slopes.

All soils mapped on the site are Alfisols, which are well developed soil with more clay in the B horizon than in the A horizon. Besides having a dense clay layer, the Fiddymment, Hedge, and Redding soils have a duripan at varying depths. Red Bluff soils are relatively deep and lack both a dense clay layer and a duripan.

Fiddymment soils occur in the southeastern portion of the property to the east of Frye Creek. Hedge soils occur in the lower Frye Creek drainage and appear to occupy the creek channel. The rendering plant was built on the Red Bluff-Xerarents complex. The remainder of the site consists of Red Bluff and Redding soils. Red Bluff soils are relatively well drained and generally are upland areas without wetlands. Vernal pools, swales, and other wetlands occur primarily on the areas where the Redding soils predominate.

Hydrology

The 800-acre property encompasses several watersheds. The eastern portion drains directly into Laguna Creek east of Sunrise Boulevard. The northwest corner drains into the Morrison Creek tributary. The portion of the property along Eagle's Nest Road drains to a tributary of Elder Creek, which is a tributary of Morrison Creek. Most of the central portion of the property is drained by a drainage feature referred to as Frye Creek. The historical headwaters of Frye Creek appears to be near the intersection of Sunrise and Kiefer Boulevards but now appears to be inside the Rendering Plant complex. Our analysis of this drainage and the review of older photos indicate this feature is not a creek but a vegetated swale. After our 2008 analysis of the system, we are characterizing this drainage as a wetland swale. This drainage flows through a 24" culvert under Eagles Nest Road and is a tributary of Laguna Creek, which flows into Morrison Creek. Morrison Creek flows southwest to the Beach-Stone Lakes area south of Sacramento.

The Morrison Creek tributary and the Frye Creek drainage appear as blue-line streams on the USGS topographic maps. Both carry winter/spring flows but are dry when the rain stops and temperatures increase. The Morrison tributary is incised and has a coarse gravel to cobble bottom and floodplain.

Vernal pools, swales, and seasonal wetlands occur scattered throughout the property. Some pools are deep and in some years hold water into the early summer. Others are relatively shallow and are likely dry by late-April or May during a year with normal rainfall. Seasonal wetlands that do not function as either pools or swales also occur on the site. They are more typically found along fence and property lines where water flow has been disrupted by cultural or other land use activities.

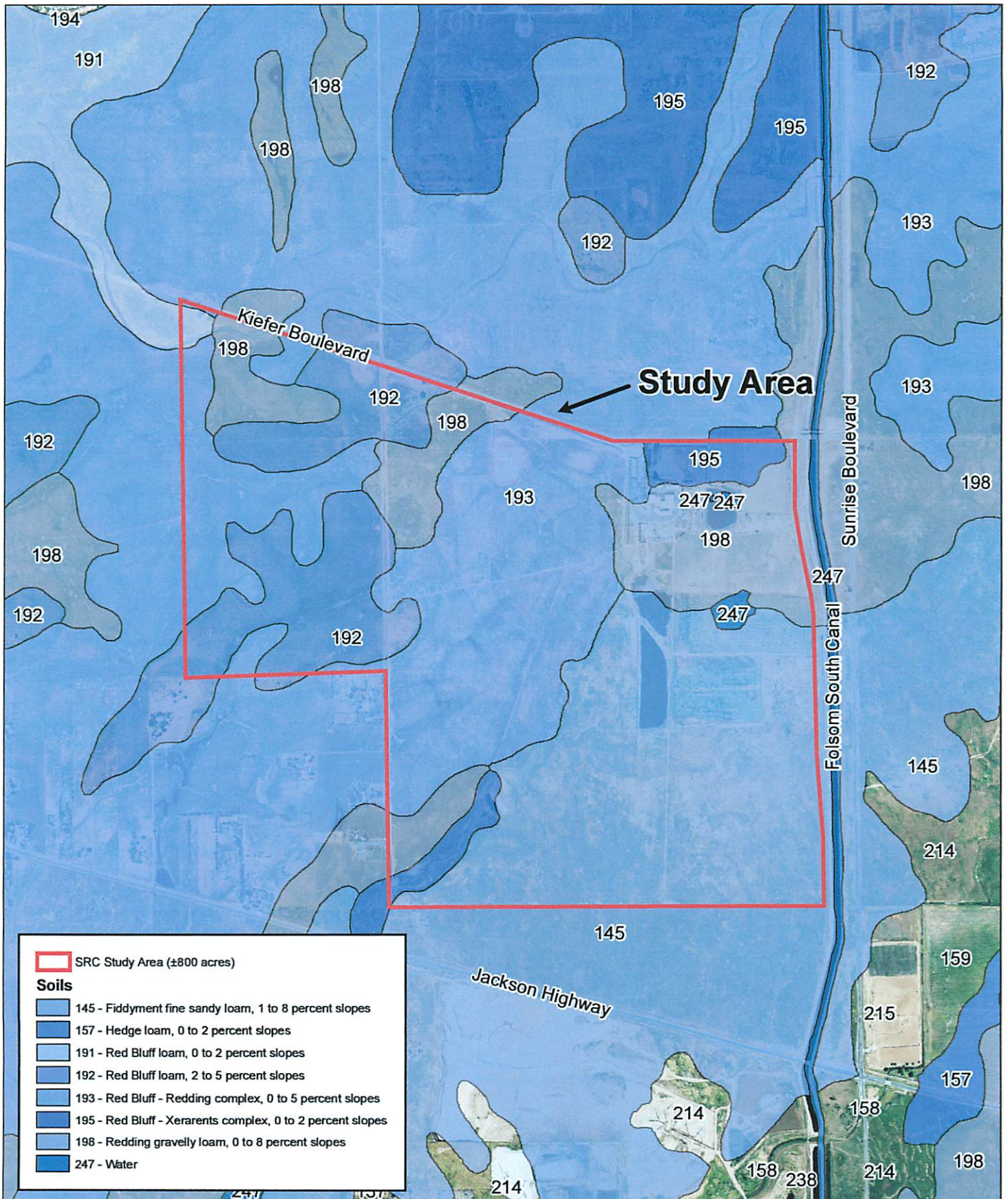
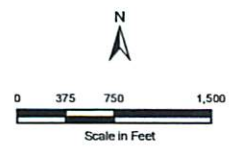


Figure 3

SOIL MAP
 SRC Milling Property
 Sacramento County, CA



Two swale types are present: upland swales and wetland swales. Upland swales may carry water during rainy periods, but the soil in these swales is deep enough to allow rapid percolation or lateral water flow. They are usually dominated by species from the surrounding grassland. Wetland swales are associated with larger pool watersheds and support a number of wetland species, primarily grasses, but also including species typically found in vernal pools.

Vegetation

Most of the property is annual grassland used for livestock grazing. The upland flora varies widely, perhaps because of soil differences. The southeast portion is dominated by ruderal grasses and vetch. Ripgut brome (*Bromus diandrus*) and foxtail barley (*Hordeum murinum*) are particularly common and abundant grasses. By late spring, much of this area was covered with vetch (*Vicia villosa*). The western areas are on a different soil type and the flora is much less ruderal. Native bulbs are also common on this portion of the property. By summer, areas with more clay and poorer drainage are dominated by tarweed (*Holocarpha virgata*) and spikeweed (*Centromadia fitchii*). The 200 acres west of Eagles Nest Road appears less disturbed than the rest of the site, and has been, perhaps, less affected by intensive grazing. The area supports a higher percentage of native species, although the dominants are still introduced grasses.

Vernal pools, swales, and seasonal wetlands are embedded in the annual grassland over much of the property. The differences between the various wetlands are often subtle and are discussed in the section Waters of the United States.

Aside from landscaping around the rendering plant, very little woody vegetation occurs on the property. A row of eucalyptus trees has been planted along Kiefer Boulevard. Small clusters of walnuts (*Juglans* sp.) and locust (*Robinia pseudoacacia*) grow at several locations. Neither creek supports riparian vegetation. No woody species are present in the Morrison Creek tributary or the Frye Creek drainage.

The northeast portion of the property is used to discharge wastewater from the rendering plant. As a result of irrigation, these areas support permanent pasture consisting of perennial pasture grasses and forbs that are used for year-round grazing.

WATERS OF THE UNITED STATES

Six categories of waters of the United States have been mapped on the site: vernal pool, seasonal wetland, wetland swale, ephemeral stream, intermittent stream, and pond. Table 1 is an acreage summary of the various types.

Table 1
Waters of the United States

Type	Acreage
Wetlands:	
Vernal Pool	10.97
Seasonal Wetland	4.63
Wetland Swale	4.46
<i>Wetland Subtotal</i>	20.06
Other Waters	
Ephemeral Stream	0.09
Intermittent Stream	0.96

Type	Acreage
Pond	0.66
<i>Other Waters Subtotal</i>	1.71
Total Waters of the U.S.	21.77

Vernal Pool

Vernal pools are depressional wetlands that support a mostly native flora. They fill with winter/spring rainfall and remain inundated for longer periods than the surrounding upland due to an impermeable or semi-permeable hardpan or duripan subsurface layer (Figure 4 and 5b). These wetlands have a distinct flora composed primarily of native species adapted to alternating periods of inundation and desiccation. The vernal pool wetland type supports a variety of typical species, including popcornflower (*Plagiobothrys stipitatus* and *P. greenei*), downingia (*Downingia bicornuta* and *D. ornatissima*), buttercup (*Ranunculus bonariensis trisepalus*), and annual hairgrass (*Deschampsia danthonioides*). Deeper pools have spikerush (*Eleocharis macrostachya*), aquatic buttercup (*Ranunculus aquatilis*), and water starwort (*Callitriche marginata*) and more abundant coyote thistle (*Eryngium vaseyi*).

Vernal pools are distributed throughout the site, except for the southeast corner. Many of the deepest pools occur on the relatively flat ridge between the Frye Creek drainage and Eagle's Nest Road (VP-62, VP-64, and VP-116 are good examples). In addition, vernal pools occur predominately on the Redding soils and the Red Bluff-Redding complex.

Seasonal Wetland

Seasonal wetlands form in very shallow depressions (Figure 5a) or as fringe wetlands along creeks. There is overlap in the characteristics of shallow vernal pools and shallow seasonal wetlands, so that it is sometimes difficult to distinguish between them. Seasonal wetlands often have a mix of vernal pool species and FAC and FACW species such as curly dock (*Rumex crispus*), Mediterranean barley (*Hordeum marinum*), and ryegrass (*Lolium multiflorum*). They tend to form in swales that have been converted to wetlands by impeding the flow of water in the swale. Several small seasonal wetlands occur along the southern property boundary.

The large seasonal wetland (SW-05 along Eagle's Nest Road) is the result of altered drainage (probably longer than fifteen years ago). USGS maps show this area to be a large temporary impoundment that before to 1980 may have been a large vernal pool or pond (USGS maps usually do not recognize small vernal pools). At one time, excess water from this area flowed southwest into the Elder Creek tributary. Today, however, SW-05 has been drained into a culvert under Eagle's Nest Road and the excess water flows northwest through swales and basins to the Morrison tributary. This seasonal wetland usually has a few inches of standing water during the rainy season, and it supports species indicative of vernal pools.

Wetland Swale

The wetland swale typically occurs in undulating topographic lows on gently sloping land. Because the swales slope, water in them typically flows rather than stands during rainy periods. Water flows are not of sufficient duration or intensity to create scour marks in swales and thus, the swales are vegetated. On the SRC property, swales often connect depressional features that function like vernal pools except that water usually flows through them during rainy periods (Figure 6a). Although swales and basins share some of the same species, the overall floras of



4a. Vernal pool 62 looking northeast.



4b. Vernal pool 62 looking north northeast.



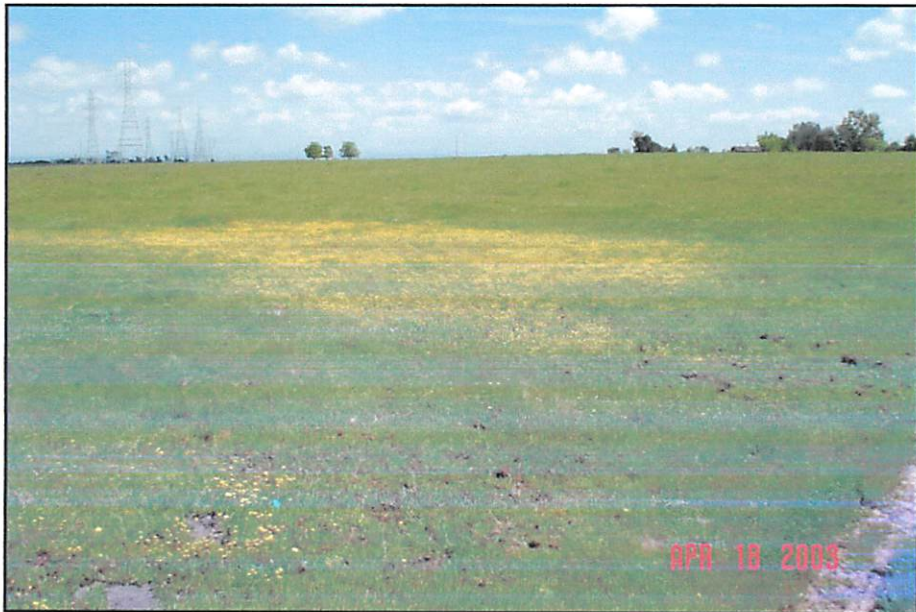
Photo Dates: January 29, 2003 and October 13, 2008

Figure 4

SITE PHOTOS
SRC Milling Property
Sacramento County, California



5a. Seasonal wetland #11 in southeast corner of site.



5b. Shallow vernal pool.



Photo Dates: April 18, & May 20, 2003

Figure 5

SITE PHOTOS
SRC Milling Property
Sacramento County, California



6a. Vernal pool embedded within wetland swale.



6b. Intermittent stream 01, tributary to Morrison Creek.



north
fork
associates

Photo Dates: April 18, 2003, October 14, 2008

Figure 6

SITE PHOTOS
SRC Milling Property
Sacramento County, California

the two are somewhat different. Because the basins are often inundated deeper and longer, they usually have OBL and strong FACW species, whereas the swales often lack OBL species and are dominated by weaker FACW and FAC species.

A lengthy wetland swale system flows north to southwest across the property and has been labeled on the USGS map as Frye Creek, although it is mostly vegetated with wetland plant species and lacks a rocky bottom and an incised channel.

Ephemeral Stream

Ephemeral streams have more-or-less continuous scour marks that locate the ordinary high water mark. Only a single ephemeral stream was mapped within the study area. Ephemeral streams flow during periods of rainfall, but usually do not flow for more than a few days once the rainfall has ended. These streams lack seeps or other groundwater discharges and are generally unvegetated (Figure 7a).

Intermittent Stream

Only a single intermittent stream was mapped on the site, the Morrison Creek (Figure 6b) tributary. It did not have water in it past late-April or early-May. The Morrison tributary is formed on Red Bluff soils, which are derived from alluvium. The topsoil and finer alluvial material have been removed leaving the exposed cobble creek bed. The flora of the Morrison tributary primarily is composed of vernal pool species. By June, the dominant species along much of the tributary is the perennial wetland tarweed (*Holozonia filipes*).

Pond

The large stock pond on Frye Creek (Figure 7b) was created decades ago to provide late spring water for cattle. The pond is notched and the maximum depth is approximately two feet. The notch is the spillway. In June 2003, much of the pond edge was dominated by sand spurrey (*Spergularia rubra*), swamp grass (*Crypsis schoenoides*), pigweed (*Amaranthus* sp.), knotweed (*Polygonum arenastrum*), and dove weed (*Croton setigerus*). Many of these species were also observed during October 2008.

OTHER FEATURES

Industrial Ponds

Several industrial ponds are located directly adjacent to the Sacramento Rendering Company Plant and are associated with its industrial use. These ponds function as evaporation ponds as well as catch basins, in case of spills and/or necessity to quickly drain equipment. These features are completely managed and were built to support the rendering facility.



7a. Ephemeral stream 01 - tributary to Morrison Creek.



7b. Pond 01 along wetland swale 26.



Photo Dates: October 13 & 14, 2008

Figure 7

SITE PHOTOS
SRC Milling Property
Sacramento County, California

APPENDIX A
Field Data Sheets

ROUTINE WETLAND DETERMINATION FORM

Project/Site: SRC Milling

Date: April 9, 2003

Applicant: SRC Milling

Sample Point: 101

Investigators: JG/BA

County: Sacramento

State: California

Quad(s): Carmichael

Section 30 Township 3N Range 7E

Atypical Situation? Yes No

Potential Problem Area? Yes No

Normal Circumstances? Yes No

VEGETATION

Dominant Plant Species	% Cover	Status	Non-Dominant Plant Species	% Cover	Status
<i>Trifolium cristatum</i>	20	-	<i>Pectocarya pabymaj</i>		-
<i>Trifolium subterraneum</i>	20	-	<i>Erodium cicutarium</i>		-
<i>Ranunculus taraxacum</i>	20	-	<i>Briza media</i>		FACW
<i>Vulpia bromoides</i>	20	FACW			

Percentage of dominant species that are OBL, FACW, or FAC: 25 %

Remarks:

Most species suggest upland conditions.

Wetland Vegetation YES NO

SOILS

Map Unit Name (Series/Phase): Redding gravelly loam

Mottled? Yes No

Gleyed? Yes No

Matrix Color: 5YR 3/4

Mottle Color: 5YR 4/6

Redoximorphic Features:

Gleyed or Low Chroma Colors

Low Chroma w/ Mottles

Aquic Moisture Regime

Listed on Local Hydric Soil List

Reducing Conditions

Sulfidic Odor

Concretions

Other

Remarks:

Loamy. Bedrock at 4-6"

Wetland Soils YES NO

HYDROLOGY

Inundated? Yes No Saturated? Yes No Depth of/to Free Water:

Primary Indicators:

Inundated

Saturated in Upper 12"

Water Marks/Drift Lines

Sediment Deposit

Algal Matting

Drainage Patterns in Wetlands

Secondary Indicators

Oxidized Root Channels in Upper 12"

Water-Stained Leaves

Local Soil Survey Data

Other

Remarks:

Slight slope above the pool.

Wetland Hydrology YES NO

WETLAND/WATERS DETERMINATION

Hydrophytic Vegetation Present? Yes No

Hydric Soils Present? Yes No

Wetland Hydrology Present? Yes No

Other Waters.: Yes No

Wetland: Yes No

Remarks:

No positive indicators present.

ROUTINE WETLAND DETERMINATION FORM

Project/Site: SRC Milling
 Applicant: SRC Milling
 Investigators: JG/BA
 Quad(s):

County: Sacramento

Date: April 9, 2003
 Sample Point: 102
 State: California
 Section Township Range

Atypical Situation? Yes No Potential Problem Area? Yes No Normal Circumstances? Yes No

VEGETATION

Dominant Plant Species	% Cover	Status	Non-Dominant Plant Species	% Cover	Status
<i>Rumex crispus</i>	60	OBL	<i>Eleocharis acicularis</i>		OBL
<i>Leonurus japonicus</i>	20	-	<i>Unknown</i>		
<i>Quercus laevis</i>	10	FACW			

Percentage of dominant species that are OBL, FACW, or FAC: 100 %

Remarks:

Wetland Vegetation YES NO

SOILS

Map Unit Name (Series/Phase): Redding gravelly loam

Mottled? Yes / No Gleyed? Yes / No Matrix Color: 5YR 3/4 Mottle Color: varies, large to fine, indistinct, black concretions

Redoximorphic Features:

<input type="checkbox"/> Gleyed or Low Chroma Colors	<input type="checkbox"/> Reducing Conditions
<input type="checkbox"/> Low Chroma w/ Mottles	<input type="checkbox"/> Sulfidic Odor
<input type="checkbox"/> Aquic Moisture Regime	<input type="checkbox"/> Concretions
<input type="checkbox"/> Listed on Local Hydric Soil List	<input type="checkbox"/> Other

Remarks: Loamy, some clay. Gleyed at 10-12". 10Y 4/1

Wetland Soils YES NO

HYDROLOGY

Inundated? Yes No Saturated? Yes No Depth of/to Free Water: _____

Primary Indicators:	Secondary Indicators
<input type="checkbox"/> Inundated	<input type="checkbox"/> Oxidized Root Channels in Upper 12"
<input type="checkbox"/> Saturated in Upper 12"	<input type="checkbox"/> Water-Stained Leaves
<input type="checkbox"/> Water Marks/Drift Lines	<input type="checkbox"/> Local Soil Survey Data
<input type="checkbox"/> Sediment Deposit	<input type="checkbox"/> Other
<input type="checkbox"/> Algal Matting	
<input type="checkbox"/> Drainage Patterns in Wetlands	

Remarks: outer edge of pool.

Wetland Hydrology YES NO

WETLAND/WATERS DETERMINATION

Hydrophytic Vegetation Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Other Waters.: Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
Hydric Soils Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Wetland: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Wetland Hydrology Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	

Remarks: Edge of pool.

ROUTINE WETLAND DETERMINATION FORM

Project/Site: SRC Milling

Date: April 9, 2003

Applicant: SRC Milling

Sample Point: 103

Investigators: JG/BA

County: Sacramento

State: California

Quad(s): Carmichael

Section 30 Township 0N Range 7E

Atypical Situation? Yes No

Potential Problem Area? Yes No

Normal Circumstances? Yes No

VEGETATION

Dominant Plant Species	% Cover	Status	Non-Dominant Plant Species	% Cover	Status
Ranunculus lanarin	70	OBL	Alpacaun agut		OBL
Limonanthus doug.	10	OBL	Bryopsis sp.		FACW-OBL
Elchasin macu	10	OBL	Typhum hyperp.		FACW
			guncu ka fru.		FACW
			Calobricha marginat.		OBL

Percentage of dominant species that are OBL, FACW, or FAC: 100 %

Remarks:

All species are indicated.

Wetland Vegetation YES NO

SOILS

Map Unit Name (Series/Phase): Redding gravelly loam

Mottled? Yes No

Gleyed? Yes No

Matrix Color: 7.5 YR 3/3

Mottle Color: Varied

Redoximorphic Features:

- Gleyed or Low Chroma Colors
- Low Chroma w/ Mottles
- Aquic Moisture Regime
- Listed on Local Hydric Soil List

- Reducing Conditions
- Sulfidic Odor
- Concretions
- Other

Remarks:

Slight gleying in the profile. clayey. Prof at 12-14"

Wetland Soils YES NO

HYDROLOGY

Inundated? Yes No Saturated? Yes No Depth of/to Free Water:

Primary Indicators:

Secondary Indicators

- Inundated
- Saturated in Upper 12"
- Water Marks/Drift Lines
- Sediment Deposit
- Algal Matting
- Drainage Patterns in Wetlands

- Oxidized Root Channels in Upper 12"
- Water-Stained Leaves
- Local Soil Survey Data
- Other

Remarks:

Edge of pool. Injured from gleyed soil

Wetland Hydrology YES NO

WETLAND/WATERS DETERMINATION

Hydrophytic Vegetation Present? Yes No

Hydric Soils Present? Yes No

Wetland Hydrology Present? Yes No

Other Waters: Yes No

Wetland: Yes No

Remarks:

Edge of shallow pool

ROUTINE WETLAND DETERMINATION FORM

Project/Site: SRC Milling

Date: April 9, 2003

Applicant: SRC Milling

Sample Point: 104

Investigators: JG/BA

County: Sacramento

State: California

Quad(s): Carmichael

Section 30 Township 8N Range 7E

Atypical Situation? Yes No

Potential Problem Area? Yes No

Normal Circumstances? Yes No

VEGETATION

Dominant Plant Species	% Cover	Status	Non-Dominant Plant Species	% Cover	Status
<i>Sagittaria latifolia</i>	90	-	<i>Juncus bairdii</i>		FACW
			<i>Trifolium subterraneum</i>		-
			<i>Salpiglossis sp.</i>		-

Percentage of dominant species that are OBL, FACW, or FAC: 0 %

Remarks: No indicators present

Wetland Vegetation YES NO

SOILS

Map Unit Name (Series/Phase): Redding gravelly, loam

Mottled? Yes / No _____ Gleyed? Yes / No _____ Matrix Color: _____ Mottle Color: _____

Redoximorphic Features:

<input type="checkbox"/> Gleyed or Low Chroma Colors	<input type="checkbox"/> Reducing Conditions
<input type="checkbox"/> Low Chroma w/ Mottles	<input type="checkbox"/> Sulfidic Odor
<input type="checkbox"/> Aquic Moisture Regime	<input type="checkbox"/> Concretions
<input type="checkbox"/> Listed on Local Hydric Soil List	<input type="checkbox"/> Other

Remarks: Rock at 1-2"

Wetland Soils YES NO

HYDROLOGY

Inundated? Yes No Saturated? Yes No Depth of/to Free Water: _____

Primary Indicators:	Secondary Indicators
<input type="checkbox"/> Inundated	<input type="checkbox"/> Oxidized Root Channels in Upper 12"
<input type="checkbox"/> Saturated in Upper 12"	<input type="checkbox"/> Water-Stained Leaves
<input type="checkbox"/> Water Marks/Drift Lines	<input type="checkbox"/> Local Soil Survey Data
<input type="checkbox"/> Sediment Deposit	<input type="checkbox"/> Other
<input type="checkbox"/> Algal Matting	
<input type="checkbox"/> Drainage Patterns in Wetlands	

Remarks: Area between two ponds that has very shallow bedrock.

Wetland Hydrology YES NO

WETLAND/WATERS DETERMINATION

Hydrophytic Vegetation Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Other Waters.: Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
Hydric Soils Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Wetland: Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
Wetland Hydrology Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	

Remarks: Upland between ponds.

ROUTINE WETLAND DETERMINATION FORM

Project/Site: SRC Milling
 Applicant: SRC Milling
 Investigators: JG/BA
 Quad(s): Carmichael

County: Sacramento

Date: April 9, 2003
 Sample Point: 105
 State: California
 Section 30 Township 0N Range 7E
 Atypical Situation? Yes No Potential Problem Area? Yes No Normal Circumstances? Yes No

VEGETATION

Dominant Plant Species	% Cover	Status	Non-Dominant Plant Species	% Cover	Status
<i>Ranunculus lanarin</i>	30	OBL	<i>Lupinus texensis</i>		OBL
<i>Lolium multiflorum</i>	30	FAC			
oat	30				

Percentage of dominant species that are OBL, FACW, or FAC: 100 %
 Remarks:

Wetland Vegetation YES NO

SOILS

Map Unit Name (Series/Phase): Redding gravelly loam.
 Mottled? Yes / No Gleyed? Yes / No Matrix Color: 5YR 3/3 Mottle Color: Indistinct
 Redoximorphic Features:
 Gleyed or Low Chroma Colors Reducing Conditions
 Low Chroma w/ Mottles Sulfidic Odor
 Aquic Moisture Regime Concretions
 Listed on Local Hydric Soil List Other

Remarks:
 12-14" to rock Sandy loam. Marginal
 Chroma relatively low.

Wetland Soils YES NO

HYDROLOGY

Inundated? Yes No Saturated? Yes No Depth of/to Free Water: 2'
 Primary Indicators: Inundated Saturated in Upper 12" Water Marks/Drift Lines Sediment Deposit Algal Matting Drainage Patterns in Wetlands
 Secondary Indicators: Oxidized Root Channels in Upper 12" Water-Stained Leaves Local Soil Survey Data Other

Remarks:
 Edge of wetland

Wetland Hydrology YES NO

WETLAND/WATERS DETERMINATION

Hydrophytic Vegetation Present? Yes No
 Hydric Soils Present? Yes No 2
 Wetland Hydrology Present? Yes No 2
 Other Waters.: Yes No
 Wetland: Yes No

Remarks:
 Marginal

ROUTINE WETLAND DETERMINATION FORM

Project/Site: SRC Milling

Date: April 9, 2003

Applicant: SRC Milling

Sample Point: 106

Investigators: JG/BA

County: Sacramento

State: California

Quad(s):

Section Township Range

Atypical Situation? Yes No Potential Problem Area? Yes No Normal Circumstances? Yes No

VEGETATION

Dominant Plant Species	% Cover	Status	Non-Dominant Plant Species	% Cover	Status
<i>Nicotiana glauca</i>	40	-	<i>Juncus sp</i>		-
<i>Erodium cicutarium</i>	40	-	<i>Lolium multiflorum</i>		FAC
			<i>Cerastium glabrum</i>		-
			<i>Quercus laevis</i>		FACW

Percentage of dominant species that are OBL, FACW, or FAC: 0 %

Remarks: Dominants are upland species.

Wetland Vegetation YES NO

SOILS

Map Unit Name (Series/Phase): Redding gravelly loam

Mottled? Yes / No Gleyed? Yes / No Matrix Color: Mottle Color:

Redoximorphic Features:

<input type="checkbox"/> Gleyed or Low Chroma Colors	<input type="checkbox"/> Reducing Conditions
<input type="checkbox"/> Low Chroma w/ Mottles	<input type="checkbox"/> Sulfidic Odor
<input type="checkbox"/> Aquic Moisture Regime	<input type="checkbox"/> Concretions
<input type="checkbox"/> Listed on Local Hydric Soil List	<input type="checkbox"/> Other

Remarks: Rock at 2"

Wetland Soils YES NO

HYDROLOGY

Inundated? Yes No Saturated? Yes No Depth of/to Free Water:

Primary Indicators: <input type="checkbox"/> Inundated <input type="checkbox"/> Saturated in Upper 12" <input type="checkbox"/> Water Marks/Drift Lines <input type="checkbox"/> Sediment Deposit <input type="checkbox"/> Algal Matting <input type="checkbox"/> Drainage Patterns in Wetlands	Secondary Indicators: <input type="checkbox"/> Oxidized Root Channels in Upper 12" <input type="checkbox"/> Water-Stained Leaves <input type="checkbox"/> Local Soil Survey Data <input type="checkbox"/> Other
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Remarks: Slope above pool.

Wetland Hydrology YES NO

WETLAND/WATERS DETERMINATION

Hydrophytic Vegetation Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Other Waters.: Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
Hydric Soils Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Wetland: Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
Wetland Hydrology Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	

Remarks: Outside of pool area

ROUTINE WETLAND DETERMINATION FORM

Project/Site: SRC Milling

Date: May 1, 2003

Applicant: SRC Milling

Sample Point: 201

Investigators: JG/BA

County: Sacramento

State: California

Quad(s): Calmichael

Section 30 Township 8N Range 7E

Atypical Situation? Yes No

Potential Problem Area? Yes No

Normal Circumstances? Yes No

VEGETATION

Dominant Plant Species	% Cover	Status	Non-Dominant Plant Species	% Cover	Status
<i>Cyperus macrochaetops</i>	50	OBL	<i>Drumstickia horrida</i>		OBL
<i>Phragmites australis</i>	30	OBL	<i>Lythrum hyssopifolium</i>		FACW
open water	20		<i>Veronica peruviana</i>		OBL

Percentage of dominant species that are OBL, FACW, or FAC: 100 %

Remarks:

Wetland Vegetation YES NO

SOILS

Map Unit Name (Series/Phase): Red Bluff - Redding Complex

Mottled? Yes / No _____ Gleyed? Yes / No _____ Matrix Color: _____ Mottle Color: _____

Redoximorphic Features:

<input type="checkbox"/> Gleyed or Low Chroma Colors	<input type="checkbox"/> Reducing Conditions
<input type="checkbox"/> Low Chroma w/ Mottles	<input type="checkbox"/> Sulfidic Odor
<input checked="" type="checkbox"/> Aquic Moisture Regime	<input type="checkbox"/> Concretions
<input type="checkbox"/> Listed on Local Hydric Soil List	<input type="checkbox"/> Other

Remarks: inundated

Wetland Soils YES NO

HYDROLOGY

Inundated? Yes No _____ Saturated? Yes _____ No _____ Depth of/to Free Water: _____

<p>Primary Indicators:</p> <p><input checked="" type="checkbox"/> Inundated</p> <p><input type="checkbox"/> Saturated in Upper 12"</p> <p><input type="checkbox"/> Water Marks/Drift Lines</p> <p><input type="checkbox"/> Sediment Deposit</p> <p><input type="checkbox"/> Algal Matting</p> <p><input type="checkbox"/> Drainage Patterns in Wetlands</p>	<p>Secondary Indicators</p> <p><input type="checkbox"/> Oxidized Root Channels in Upper 12"</p> <p><input type="checkbox"/> Water-Stained Leaves</p> <p><input type="checkbox"/> Local Soil Survey Data</p> <p><input type="checkbox"/> Other</p>
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Remarks: 2" of water at sample point. 4-6" in center of pool

Wetland Hydrology YES NO

WETLAND/WATERS DETERMINATION

Hydrophytic Vegetation Present? Yes <input checked="" type="checkbox"/> No _____	Other Waters.: Yes _____ No <input checked="" type="checkbox"/>
Hydric Soils Present? Yes <input checked="" type="checkbox"/> No _____	Wetland: Yes <input checked="" type="checkbox"/> No _____
Wetland Hydrology Present? Yes <input checked="" type="checkbox"/> No _____	

Remarks: Fairly deep pond.

ROUTINE WETLAND DETERMINATION FORM

Project/Site: SRC Milling

Date: May 1, 2003

Applicant: SRC Milling

Sample Point: 202

Investigators: JG/BA

County: Sacramento

State: California

Quad(s): Carmichael

Section 30 Township 0N Range 7E

Atypical Situation? Yes No

Potential Problem Area? Yes No

Normal Circumstances? Yes No

VEGETATION

Dominant Plant Species	% Cover	Status	Non-Dominant Plant Species	% Cover	Status
<i>Triplaris antillarum</i>	80	-	<i>Salvia sp.</i>		Water
<i>Brionia prostrata</i>	20	FACW-	<i>Triplaris hirta</i>		-
			<i>Erodium cicutarium</i>		-

Percentage of dominant species that are OBL, FACW, or FAC: 0 %

Remarks:

Wetland Vegetation YES NO

SOILS

Map Unit Name (Series/Phase): Red Bluff-Redding complex

Mottled? Yes No Gleyed? Yes No Matrix Color: 5YR 3/4 Mottle Color: Faint, indistinct.

Redoximorphic Features:

<input type="checkbox"/> Gleyed or Low Chroma Colors	<input type="checkbox"/> Reducing Conditions
<input type="checkbox"/> Low Chroma w/ Mottles	<input type="checkbox"/> Sulfidic Odor
<input type="checkbox"/> Aquic Moisture Regime	<input type="checkbox"/> Concretions
<input type="checkbox"/> Listed on Local Hydric Soil List	<input type="checkbox"/> Other

Remarks: Bluey loam, high chroma.

Wetland Soils YES NO

HYDROLOGY

Inundated? Yes No Saturated? Yes No Depth of/to Free Water: _____

Primary Indicators: <input type="checkbox"/> Inundated <input type="checkbox"/> Saturated in Upper 12" <input type="checkbox"/> Water Marks/Drift Lines <input type="checkbox"/> Sediment Deposit <input type="checkbox"/> Algal Matting <input type="checkbox"/> Drainage Patterns in Wetlands	Secondary Indicators: <input type="checkbox"/> Oxidized Root Channels in Upper 12" <input type="checkbox"/> Water-Stained Leaves <input type="checkbox"/> Local Soil Survey Data <input type="checkbox"/> Other
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Remarks: No hydrology upper edge of pool.

Wetland Hydrology YES NO

WETLAND/WATERS DETERMINATION

Hydrophytic Vegetation Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Hydric Soils Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Other Waters.: Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
Wetland Hydrology Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Wetland: Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	

Remarks: upper edge of pool.

ROUTINE WETLAND DETERMINATION FORM

Project/Site: SRC Milling

Date: May 1, 2003

Applicant: SRC Milling

Sample Point: 203

Investigators: JG/BA

County: Sacramento

State: California

Quad(s): Carmichael

Section 30 Township 0N Range 7E

Atypical Situation? Yes No

Potential Problem Area? Yes No

Normal Circumstances? Yes No

VEGETATION

Dominant Plant Species	% Cover	Status	Non-Dominant Plant Species	% Cover	Status
Open water	40		<i>Spartina occidentalis</i>		OBL
<i>Glechoma m.</i>	20	OBL			
<i>Lasthenia glaberrima</i>	20	OBL			
<i>Ranunculus lanuginosus</i>	20	OBL			

Percentage of dominant species that are OBL, FACW, or FAC: 100 %

Remarks: All species are wetland indicators

Wetland Vegetation YES NO

SOILS

Map Unit Name (Series/Phase): Red Bluff - Redding complex

Mottled? Yes / No Gleyed? Yes / No Matrix Color: _____ Mottle Color: _____

Redoximorphic Features:

<input type="checkbox"/> Gleyed or Low Chroma Colors	<input type="checkbox"/> Reducing Conditions
<input type="checkbox"/> Low Chroma w/ Mottles	<input type="checkbox"/> Sulfidic Odor
<input checked="" type="checkbox"/> Aquic Moisture Regime	<input type="checkbox"/> Concretions
<input type="checkbox"/> Listed on Local Hydric Soil List	<input type="checkbox"/> Other

Remarks: Inundated

Wetland Soils YES NO

HYDROLOGY

Inundated? Yes No Saturated? Yes No Depth of/to Free Water: 3-6"

Primary Indicators: <input checked="" type="checkbox"/> Inundated <input type="checkbox"/> Saturated in Upper 12" <input type="checkbox"/> Water Marks/Drift Lines <input type="checkbox"/> Sediment Deposit <input type="checkbox"/> Algal Matting <input type="checkbox"/> Drainage Patterns in Wetlands	Secondary Indicators: <input type="checkbox"/> Oxidized Root Channels in Upper 12" <input type="checkbox"/> Water-Stained Leaves <input type="checkbox"/> Local Soil Survey Data <input type="checkbox"/> Other
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Remarks: Portions of the pool are deeper.

Wetland Hydrology YES NO

WETLAND/WATERS DETERMINATION

Hydrophytic Vegetation Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Other Waters.: Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
Hydric Soils Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Wetland: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Wetland Hydrology Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	

Remarks: Deep runoff pool.

ROUTINE WETLAND DETERMINATION FORM

Project/Site: SRC Milling

Date: May 12, 2003

Applicant: SRC Milling

Sample Point: 204

Investigators: JG/BA

County: Sacramento

State: California

Quad(s): Carmichael

Section 30 Township 0N Range 7E

Atypical Situation? Yes No

Potential Problem Area? Yes No

Normal Circumstances? Yes No

VEGETATION

Dominant Plant Species	% Cover	Status	Non-Dominant Plant Species	% Cover	Status
<i>Trifolium cristatum</i>	60	-	<i>Vicia villosa</i>		-
<i>Burnus hordeaceus</i>	40	FACW-	<i>Erodium cicutarium</i>		-

Percentage of dominant species that are OBL, FACW, or FAC: 0 %

Remarks: None are indicators

Wetland Vegetation YES NO

SOILS

Map Unit Name (Series/Phase): Red Bluff - Redding Complex

Mottled? Yes No Gleyed? Yes No Matrix Color: 10YR 3/4 Mottle Color: _____

Redoximorphic Features:

<input type="checkbox"/> Gleyed or Low Chroma Colors	<input type="checkbox"/> Reducing Conditions
<input type="checkbox"/> Low Chroma w/ Mottles	<input type="checkbox"/> Sulfidic Odor
<input type="checkbox"/> Aquic Moisture Regime	<input type="checkbox"/> Concretions
<input type="checkbox"/> Listed on Local Hydric Soil List	<input type="checkbox"/> Other

Remarks: Thin, rocky. Hand pan at 4-6". High chroma

Wetland Soils YES NO

HYDROLOGY

Inundated? Yes No Saturated? Yes No Depth of/to Free Water: _____

<p>Primary Indicators:</p> <p><input type="checkbox"/> Inundated</p> <p><input type="checkbox"/> Saturated in Upper 12"</p> <p><input type="checkbox"/> Water Marks/Drift Lines</p> <p><input type="checkbox"/> Sediment Deposit</p> <p><input type="checkbox"/> Algal Matting</p> <p><input type="checkbox"/> Drainage Patterns in Wetlands</p>	<p>Secondary Indicators</p> <p><input type="checkbox"/> Oxidized Root Channels in Upper 12"</p> <p><input type="checkbox"/> Water-Stained Leaves</p> <p><input type="checkbox"/> Local Soil Survey Data</p> <p><input type="checkbox"/> Other</p>
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Remarks: No hydrology, except edges, pool.

Wetland Hydrology YES NO

WETLAND/WATERS DETERMINATION

Hydrophytic Vegetation Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Hydric Soils Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Other Waters.: Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
Wetland Hydrology Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Wetland: Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	

Remarks: No wetland parameters present.

ROUTINE WETLAND DETERMINATION FORM

Project/Site: SRC Milling

Date: May 20, 2003

Applicant: SRC Milling

Sample Point: 306

Investigators: JG/BA

County: Sacramento

State: California

Quad(s): Buffalo Creek

Section 30 Township 0N Range 7E

Atypical Situation? Yes No Potential Problem Area? Yes No Normal Circumstances? Yes No

VEGETATION

Dominant Plant Species	% Cover	Status	Non-Dominant Plant Species	% Cover	Status
<u>Ternstroemia c-m</u>	<u>100</u>	<u>-</u>	<u>Trifolium dubium</u>		<u>FACW</u>
<u>Trifolium hirsutum</u>	<u>30</u>	<u>-</u>	<u>Hordeum marinum</u>		<u>FAC</u>
			<u>Valeriana cracca</u>		<u>-</u>

Percentage of dominant species that are OBL, FACW, or FAC: 0 %

Remarks: No indicator species

Wetland Vegetation YES NO

SOILS

Map Unit Name (Series/Phase): Eddymont fine sandy loam

Mottled? Yes No Gleyed? Yes No Matrix Color: 7.5 YR 3/4 Mottle Color: _____

Redoximorphic Features:

<input type="checkbox"/> Gleyed or Low Chroma Colors	<input type="checkbox"/> Reducing Conditions
<input type="checkbox"/> Low Chroma w/ Mottles	<input type="checkbox"/> Sulfidic Odor
<input type="checkbox"/> Aquic Moisture Regime	<input type="checkbox"/> Concretions
<input type="checkbox"/> Listed on Local Hydric Soil List	<input type="checkbox"/> Other

Remarks: Above muck topographically

Wetland Soils YES NO

HYDROLOGY

Inundated? Yes No Saturated? Yes No Depth of/to Free Water: _____

<p>Primary Indicators:</p> <input type="checkbox"/> Inundated <input type="checkbox"/> Saturated in Upper 12" <input type="checkbox"/> Water Marks/Drift Lines <input type="checkbox"/> Sediment Deposit <input type="checkbox"/> Algal Matting <input type="checkbox"/> Drainage Patterns in Wetlands	<p>Secondary Indicators</p> <input type="checkbox"/> Oxidized Root Channels in Upper 12" <input type="checkbox"/> Water-Stained Leaves <input type="checkbox"/> Local Soil Survey Data <input type="checkbox"/> Other
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Remarks: Slope above muck

Wetland Hydrology YES NO

WETLAND/WATERS DETERMINATION

Hydrophytic Vegetation Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Other Waters.: Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
Hydric Soils Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Wetland: Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
Wetland Hydrology Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	

Remarks: No indicators present.

ROUTINE WETLAND DETERMINATION FORM

Project/Site: SRC Milling

Date: May 20, 2003

Applicant: SRC Milling

Sample Point: 307

Investigators: JG/BA

County: Sacramento

State: California

Quad(s): Buffalo Creek

Section 30 Township 0N Range 7E

Atypical Situation? Yes No Potential Problem Area? Yes No

Normal Circumstances? Yes No

VEGETATION

Dominant Plant Species	% Cover	Status	Non-Dominant Plant Species	% Cover	Status
<u>Hordeum marianum</u>	<u>60</u>	<u>FAC</u>	<u>Lathyrus bicolor</u>		<u>-</u>
<u>Lotus multiflorus</u>	<u>30</u>	<u>FAC</u>	<u>Leontodon tarax</u>		<u>-</u>
			<u>Trifolium glomeratum</u>		<u>-</u>

Percentage of dominant species that are OBL, FACW, or FAC: 100 %

Remarks:

Marginal veg.

Wetland Vegetation YES NO

SOILS

Map Unit Name (Series/Phase):

Mottled? Yes No Gleyed? Yes No

Matrix Color: 7.5 YR 3/3

Mottle Color: Manginit. few, very faint.

Redoximorphic Features:

- Gleyed or Low Chroma Colors
- Low Chroma w/ Mottles
- Aquic Moisture Regime
- Listed on Local Hydric Soil List

- Reducing Conditions
- Sulfidic Odor
- Concretions
- Other

Remarks:

Marginal

Wetland Soils YES NO

HYDROLOGY

Inundated? Yes No Saturated? Yes No Depth of/to Free Water:

Primary Indicators:

- Inundated
- Saturated in Upper 12"
- Water Marks/Drift Lines
- Sediment Deposit
- Algal Matting
- Drainage Patterns in Wetlands

Secondary Indicators

- Oxidized Root Channels in Upper 12"
- Water-Stained Leaves
- Local Soil Survey Data
- Other

Remarks:

Upland swale. No indicators.

Wetland Hydrology YES NO

WETLAND/WATERS DETERMINATION

Hydrophytic Vegetation Present? Yes No

Hydric Soils Present? Yes No ?

Wetland Hydrology Present? Yes No

Other Waters.: Yes No

Wetland: Yes No

Remarks:

Upland swale

ROUTINE WETLAND DETERMINATION FORM

Project/Site: SRC Milling

Date: May 20, 2003

Applicant: SRC Milling

Sample Point: 308

Investigators: JG/BA

County: Sacramento

State: California

Quad(s): Buffalo Creek

Section 30 Township 0N Range 7E

Atypical Situation? Yes No Potential Problem Area? Yes No Normal Circumstances? Yes No

VEGETATION

Dominant Plant Species	% Cover	Status	Non-Dominant Plant Species	% Cover	Status
<u>Northern marion</u>	<u>40</u>	<u>FAC</u>	<u>Leontodon farak</u>		<u>-</u>
<u>Lotus multifl.</u>	<u>40</u>	<u>FAC</u>	<u>Elycharia macra</u>		<u>OBL</u>
<u>Pb7</u>	<u>10</u>		<u>Taraxacum officinale</u>		<u>-</u>
			<u>Lathyrus cuneata</u>		<u>-</u>
			<u>Trifolium hirsutum</u>		<u>-</u>

Percentage of dominant species that are OBL, FACW, or FAC: 100 %

Remarks: veg is marginal

Wetland Vegetation YES NO

SOILS

Map Unit Name (Series/Phase): _____

Mottled? Yes No Gleyed? Yes / No Matrix Color: 7.5 YR 3/0 Mottle Color: 5YR 4/6 orange, many

Redoximorphic Features:

<input type="checkbox"/> Gleyed or Low Chroma Colors	<input type="checkbox"/> Reducing Conditions
<input type="checkbox"/> Low Chroma w/ Mottles	<input type="checkbox"/> Sulfidic Odor
<input type="checkbox"/> Aquic Moisture Regime	<input type="checkbox"/> Concretions
<input type="checkbox"/> Listed on Local Hydric Soil List	<input type="checkbox"/> Other

Remarks: Red strongly low chroma, strong mottle

Wetland Soils YES NO

HYDROLOGY

Inundated? Yes No Saturated? Yes No Depth of/to Free Water: _____

Primary Indicators: <input type="checkbox"/> Inundated <input type="checkbox"/> Saturated in Upper 12" <input type="checkbox"/> Water Marks/Drift Lines <input type="checkbox"/> Sediment Deposit <input type="checkbox"/> Algal Matting <input type="checkbox"/> Drainage Patterns in Wetlands	Secondary Indicators: <input type="checkbox"/> Oxidized Root Channels in Upper 12" <input type="checkbox"/> Water-Stained Leaves <input type="checkbox"/> Local Soil Survey Data <input type="checkbox"/> Other
--	--

Remarks: No strong indicators. Marginal

Wetland Hydrology YES NO

WETLAND/WATERS DETERMINATION

Hydrophytic Vegetation Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Other Waters.: Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
Hydric Soils Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Wetland: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Wetland Hydrology Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	

Remarks: Probably the outer edge.

ROUTINE WETLAND DETERMINATION FORM

Project/Site: SRC Milling

Date: May 20, 2003

Applicant: SRC Milling

Sample Point: 309

Investigators: JG/BA

County: Sacramento

State: California

Quad(s):

Section Township Range

Atypical Situation? Yes No Potential Problem Area? Yes No Normal Circumstances? Yes No

VEGETATION

Dominant Plant Species	% Cover	Status	Non-Dominant Plant Species	% Cover	Status
<u>None</u>	<u>20</u>		<u>Lernedon calyx</u>		<u>-</u>
<u>Sclercharis macul.</u>	<u>30</u>	<u>OBL</u>	<u>Lythrum hyssop.</u>		<u>FACW</u>
<u>Polygonum mn.</u>	<u>30</u>	<u>FACW</u>	<u>Cassia angust.</u>		<u>OBL</u>
			<u>Plagiobolus atij</u>		<u>OBL</u>
			<u>Reschamprind.</u>		<u>FACW</u>
			<u>Bromus hordeace.</u>		<u>FACW</u>

Percentage of dominant species that are OBL, FACW, or FAC: 100 %

Remarks:

Stronger wet flora than 308

Wetland Vegetation YES NO

SOILS

Map Unit Name (Series/Phase): Fiddment fine sandy loam

Mottled? Yes / No Gleyed? Yes / No Matrix Color: 7.5YR 8/3 Mottle Color: 5YR 4/6

Redoximorphic Features:

<input type="checkbox"/> Gleyed or Low Chroma Colors	<input type="checkbox"/> Reducing Conditions
<input type="checkbox"/> Low Chroma w/ Mottles	<input type="checkbox"/> Sulfidic Odor
<input type="checkbox"/> Aquic Moisture Regime	<input type="checkbox"/> Concretions
<input type="checkbox"/> Listed on Local Hydric Soil List	<input type="checkbox"/> Other

Remarks:

Strong mottles.

Wetland Soils YES NO

HYDROLOGY

Inundated? Yes No Saturated? Yes No Depth of/to Free Water: _____

Primary Indicators:

<input type="checkbox"/> Inundated	<input checked="" type="checkbox"/> Oxidized Root Channels in Upper 12"
<input type="checkbox"/> Saturated in Upper 12"	<input type="checkbox"/> Water-Stained Leaves
<input type="checkbox"/> Water Marks/Drift Lines	<input type="checkbox"/> Local Soil Survey Data
<input type="checkbox"/> Sediment Deposit	<input type="checkbox"/> Other
<input checked="" type="checkbox"/> Algal Matting	
<input type="checkbox"/> Drainage Patterns in Wetlands	

Remarks:

Algal mats

Wetland Hydrology YES NO

WETLAND/WATERS DETERMINATION

Hydrophytic Vegetation Present? Yes No

Hydric Soils Present? Yes No

Wetland Hydrology Present? Yes No

Other Waters.: Yes No

Wetland: Yes No

Remarks:

Stronger veg than 308. Deeper in the basin.

ROUTINE WETLAND DETERMINATION FORM

Project/Site: SRC Milling
 Applicant: SRC Milling
 Investigators: JG/PB
 Quad(s): Carmichael

County: Sacramento

Date: October 14, 2008
 Sample Point: 310
 State: California
 Section 24 Township 8N Range 6E

Atypical Situation? Yes No Potential Problem Area? Yes No Normal Circumstances? Yes No

VEGETATION

Dominant Plant Species	% Cover	Status	Non-Dominant Plant Species	% Cover	Status
Leontodon taraxacoides	30	--	Trifolium hirtum	5	--
Hordeum marinum	40	FAC	Holocarpa virgata	10	--
			Lolium multiflorum	10	?
			Vulpia sp.	5	FAC*

Percentage of dominant species that are OBL, FACW, or FAC: 50 %

Remarks:
Weedy mostly upland flora.

Wetland Vegetation YES NO

SOILS

Map Unit Name (Series/Phase): Red Bluff loam

Mottled? Yes / No Gleyed? Yes / No Matrix Color: 7.5 YR 3/3 Mottle Color: faint

Redoximorphic Features:

<input type="checkbox"/> Gleyed or Low Chroma Colors	<input type="checkbox"/> Reducing Conditions
<input type="checkbox"/> Low Chroma w/ Mottles	<input type="checkbox"/> Sulfidic Odor
<input type="checkbox"/> Aquic Moisture Regime	<input type="checkbox"/> Concretions
<input type="checkbox"/> Listed on Local Hydric Soil List	<input type="checkbox"/> Other

Remarks:

Wetland Soils YES NO

HYDROLOGY

Inundated? Yes No Saturated? Yes No Depth of/to Free Water: _____

Primary Indicators: <input type="checkbox"/> Inundated <input type="checkbox"/> Saturated in Upper 12" <input type="checkbox"/> Water Marks/Drift Lines <input type="checkbox"/> Sediment Deposit <input type="checkbox"/> Algal Matting <input type="checkbox"/> Drainage Patterns in Wetlands	Secondary Indicators: <input type="checkbox"/> Oxidized Root Channels in Upper 12" <input type="checkbox"/> Water-Stained Leaves <input type="checkbox"/> Local Soil Survey Data <input type="checkbox"/> Other
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Remarks:
Lacks evidence of prolonged saturation.

Wetland Hydrology YES NO

WETLAND/WATERS DETERMINATION

Hydrophytic Vegetation Present?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Other Waters.: Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
Hydric Soils Present?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Wetland: Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
Wetland Hydrology Present?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	

Remarks:
Marginal area. Abundant facultative grasses, but lacks other wetland indicators.

ROUTINE WETLAND DETERMINATION FORM

Project/Site: SRC Milling
 Applicant: SRC Milling
 Investigators: JG/BA
 Quad(s): Carmichael
 Atypical Situation? Yes No

County: Sacramento

Date: May 20, 2003
 Sample Point: 312
 State: California
 Section 24 Township 5N Range 6E
 Potential Problem Area? Yes No Normal Circumstances? Yes No

VEGETATION

Dominant Plant Species	% Cover	Status	Non-Dominant Plant Species	% Cover	Status
<i>Ply</i>	20		<i>Gutierrezia serotena</i>		OBL
<i>Leontodon tox.</i>	20	-	<i>Platichroma stip.</i>		OBL
<i>Hordelymus major</i>	50	FAC	<i>Elychasis macro</i>		OBL
			<i>Elychasis acicularis</i>		OBL
			<i>Ranunculus bon.</i>		OBL

Percentage of dominant species that are OBL, FACW, or FAC: 50 %

Remarks:
Sub doms are strong indicator.

Wetland Vegetation YES NO

SOILS

Map Unit Name (Series/Phase): *Red Bluff - Redding complex*

Mottled? Yes / No Gleyed? Yes / No Matrix Color: *7.5 YR 3/3* Mottle Color: *gray, black indistinct*

Redoximorphic Features:

<input type="checkbox"/> Gleyed or Low Chroma Colors	<input type="checkbox"/> Reducing Conditions
<input type="checkbox"/> Low Chroma w/ Mottles	<input type="checkbox"/> Sulfidic Odor
<input type="checkbox"/> Aquic Moisture Regime	<input type="checkbox"/> Concretions
<input type="checkbox"/> Listed on Local Hydric Soil List	<input type="checkbox"/> Other

Remarks:
Inferred from veg.

Wetland Soils YES NO

HYDROLOGY

Inundated? Yes No Saturated? Yes No Depth of/to Free Water: _____

Primary Indicators: <input type="checkbox"/> Inundated <input type="checkbox"/> Saturated in Upper 12" <input type="checkbox"/> Water Marks/Drift Lines <input type="checkbox"/> Sediment Deposit <input type="checkbox"/> Algal Matting <input type="checkbox"/> Drainage Patterns in Wetlands	Secondary Indicators: <input type="checkbox"/> Oxidized Root Channels in Upper 12" <input type="checkbox"/> Water-Stained Leaves <input type="checkbox"/> Local Soil Survey Data <input type="checkbox"/> Other
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Remarks:
Depression with hoop prints.

Wetland Hydrology YES NO

WETLAND/WATERS DETERMINATION

Hydrophytic Vegetation Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Other Waters.: Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
Hydric Soils Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Wetland: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Wetland Hydrology Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	

Remarks:
Depression that had water most of the year

ROUTINE WETLAND DETERMINATION FORM

Project/Site: SRC Milling

Date: May 20, 2003

Applicant: SRC Milling

Sample Point: 313

Investigators: JG/BA

County: Sacramento

State: California

Quad(s): Carmichael

Section 24 Township 9N Range 6E

Atypical Situation? Yes No

Potential Problem Area? Yes No

Normal Circumstances? Yes No

VEGETATION

Dominant Plant Species	% Cover	Status	Non-Dominant Plant Species	% Cover	Status
<i>Nyctea maritima</i>	50	FACW	<i>Lolium multif.</i>		FACW
<i>Leontodon sciss.</i>	30	-	<i>Triteleia hyacinthina</i>		FACW
			<i>Taraxacum officinale</i>		-
			<i>Rubus cuneifolius</i>		-
			<i>Prodraca elegans</i>		FACW
			<i>Judaea sp.</i>		?

Percentage of dominant species that are OBL, FACW, or FAC: 50 %

Remarks:

Subdominants suggest upland. Triteleia is a very poor FACW

Wetland Vegetation YES NO

SOILS

Map Unit Name (Series/Phase): *Red Bluff - Redding complex*

Mottled? Yes / No Gleyed? Yes / No Matrix Color: Mottle Color:

Redoximorphic Features:

<input type="checkbox"/> Gleyed or Low Chroma Colors	<input type="checkbox"/> Reducing Conditions
<input type="checkbox"/> Low Chroma w/ Mottles	<input type="checkbox"/> Sulfidic Odor
<input type="checkbox"/> Aquic Moisture Regime	<input type="checkbox"/> Concretions
<input type="checkbox"/> Listed on Local Hydric Soil List	<input type="checkbox"/> Other

Remarks:

to hard to dig.

Wetland Soils YES NO

HYDROLOGY

Inundated? Yes No Saturated? Yes No Depth of/to Free Water:

<p>Primary Indicators:</p> <p><input type="checkbox"/> Inundated</p> <p><input type="checkbox"/> Saturated in Upper 12"</p> <p><input type="checkbox"/> Water Marks/Drift Lines</p> <p><input type="checkbox"/> Sediment Deposit</p> <p><input type="checkbox"/> Algal Matting</p> <p><input type="checkbox"/> Drainage Patterns in Wetlands</p>	<p>Secondary Indicators</p> <p><input type="checkbox"/> Oxidized Root Channels in Upper 12"</p> <p><input type="checkbox"/> Water-Stained Leaves</p> <p><input type="checkbox"/> Local Soil Survey Data</p> <p><input type="checkbox"/> Other</p>
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Remarks:

Slope above the depression. No indications present.

Wetland Hydrology YES NO

WETLAND/WATERS DETERMINATION

Hydrophytic Vegetation Present?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Other Waters.: Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
Hydric Soils Present?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Wetland: Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
Wetland Hydrology Present?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	

Remarks:

Slope above the depression

ROUTINE WETLAND DETERMINATION FORM

Project/Site: SRC Milling

Date: May 20, 2003

Applicant: SRC Milling

Sample Point: 514

Investigators: JG/BA

County: Sacramento

State: California

Quad(s): Carmichael

Section 24 Township BN Range 6E

Atypical Situation? Yes No

Potential Problem Area? Yes No

Normal Circumstances? Yes No

VEGETATION

Dominant Plant Species	% Cover	Status	Non-Dominant Plant Species	% Cover	Status
<i>Lotus multi.</i>	20	FAC	<i>Trifolium hybridum</i>		FACW
<i>Leontodon sax.</i>	30	-	<i>Lythrum hyss.</i>		FACW
<i>Holcus sp.</i>	30	-	<i>Sulphur verna</i>		FACW
			<i>Castilleja attenuata</i>		-
			<i>Erodium cicut.</i>		-
			<i>Juncus bup.</i>		FACW

Percentage of dominant species that are OBL, FACW, or FAC: 30%

Remarks: *Marginal swale*

Wetland Vegetation YES NO

SOILS

Map Unit Name (Series/Phase): *Redding gravelly loam*

Mottled? Yes No Gleyed? Yes No Matrix Color: *7.5YR 3/4* Mottle Color: *orange/brown in distinct*

Redoximorphic Features:

<input type="checkbox"/> Gleyed or Low Chroma Colors	<input type="checkbox"/> Reducing Conditions
<input type="checkbox"/> Low Chroma w/ Mottles	<input type="checkbox"/> Sulfidic Odor
<input type="checkbox"/> Aquic Moisture Regime	<input type="checkbox"/> Concretions
<input type="checkbox"/> Listed on Local Hydric Soil List	<input type="checkbox"/> Other

Remarks: *Marginal*

Wetland Soils YES NO

HYDROLOGY

Inundated? Yes No Saturated? Yes No Depth of/to Free Water: _____

<p>Primary Indicators:</p> <input type="checkbox"/> Inundated <input type="checkbox"/> Saturated in Upper 12" <input type="checkbox"/> Water Marks/Drift Lines <input type="checkbox"/> Sediment Deposit <input type="checkbox"/> Algal Matting <input type="checkbox"/> Drainage Patterns in Wetlands	<p>Secondary Indicators:</p> <input type="checkbox"/> Oxidized Root Channels in Upper 12" <input type="checkbox"/> Water-Stained Leaves <input type="checkbox"/> Local Soil Survey Data <input type="checkbox"/> Other
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Remarks: *very shallow swale.*

Wetland Hydrology YES NO

WETLAND/WATERS DETERMINATION

Hydrophytic Vegetation Present?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Other Waters.: Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
Hydric Soils Present?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Wetland: Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
Wetland Hydrology Present?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	

Remarks: *Marginal upland swale.*

ROUTINE WETLAND DETERMINATION FORM

Project/Site: SRC Milling

Date: May 20, 2003

Applicant: SRC Milling

Sample Point: 315

Investigators: JG/BA

County: Sacramento

State: California

Quad(s): Carmichael

Section 24 Township 8N Range 6E

Atypical Situation? Yes No

Potential Problem Area? Yes No

Normal Circumstances? Yes No

VEGETATION

Dominant Plant Species	% Cover	Status	Non-Dominant Plant Species	% Cover	Status
<u>Rock</u>	<u>40</u>		<u>Drumstick Plantain</u>		<u>OBL</u>
<u>Eryngium sp.</u>	<u>40</u>	<u>FACW?</u>	<u>D- Bromus</u>		<u>OBL</u>
			<u>Medicago sp.</u>		<u>-</u>
			<u>Plantago virginica</u>		<u>OBL</u>
			<u>Epilobium?</u>		<u>OBL?</u>

Percentage of dominant species that are OBL, FACW, or FAC: 100 %

Remarks:

Wetland Vegetation YES NO

SOILS

Map Unit Name (Series/Phase): stream cuttle

Mottled? Yes / No / Gleyed? Yes / No / Matrix Color: _____ Mottle Color: _____

Redoximorphic Features:

<input type="checkbox"/> Gleyed or Low Chroma Colors	<input type="checkbox"/> Reducing Conditions
<input type="checkbox"/> Low Chroma w/ Mottles	<input type="checkbox"/> Sulfidic Odor
<input type="checkbox"/> Aquic Moisture Regime	<input type="checkbox"/> Concretions
<input type="checkbox"/> Listed on Local Hydric Soil List	<input type="checkbox"/> Other

Remarks: Cobble

Wetland Soils YES NO

HYDROLOGY

Inundated? Yes _____ No Saturated? Yes _____ No Depth of/to Free Water: _____

Primary Indicators: <input type="checkbox"/> Inundated <input type="checkbox"/> Saturated in Upper 12" <input checked="" type="checkbox"/> Water Marks/Drift Lines <input checked="" type="checkbox"/> Sediment Deposit <input type="checkbox"/> Algal Matting <input type="checkbox"/> Drainage Patterns in Wetlands	Secondary Indicators: <input type="checkbox"/> Oxidized Root Channels in Upper 12" <input type="checkbox"/> Water-Stained Leaves <input type="checkbox"/> Local Soil Survey Data <input type="checkbox"/> Other
--	--

Remarks: Creek channel. OHWM 25-30'

Wetland Hydrology YES NO

WETLAND/WATERS DETERMINATION

Hydrophytic Vegetation Present? Yes _____ No _____	Other Waters.: Yes _____ No <input checked="" type="checkbox"/>
Hydric Soils Present? Yes _____ No _____	Wetland: Yes _____ No <input checked="" type="checkbox"/>
Wetland Hydrology Present? Yes _____ No _____	

Remarks: Monica Creek tributary

ROUTINE WETLAND DETERMINATION FORM

Project/Site: SRC Milling

Date: May 20, 2003

Applicant: SRC Milling

Sample Point: 316

Investigators: JG/BA

County: Sacramento

State: California

Quad(s): Carmichael

Section 24 Township 0N Range 6E

Atypical Situation? Yes No

Potential Problem Area? Yes No

Normal Circumstances? Yes No

VEGETATION

Dominant Plant Species	% Cover	Status	Non-Dominant Plant Species	% Cover	Status
<i>Roch</i>	40		<i>Juncus bnf.</i>		FAC
<i>Eragrostis sp</i>	20	FACW?	<i>Juncus capitata</i>		FACU
<i>Mastigisella</i>	20	OBL	<i>Pragme sp.</i>		OBL
			<i>Downingia ornata</i>		OBL

Percentage of dominant species that are OBL, FACW, or FAC: 100 %

Remarks:

Wetland Vegetation YES NO

SOILS

Map Unit Name (Series/Phase): Red Bluff - Redding complex

Mottled? Yes / No Gleyed? Yes / No Matrix Color: Mottle Color:

Redoximorphic Features:

<input type="checkbox"/> Gleyed or Low Chroma Colors	<input type="checkbox"/> Reducing Conditions
<input type="checkbox"/> Low Chroma w/ Mottles	<input type="checkbox"/> Sulfidic Odor
<input type="checkbox"/> Aquic Moisture Regime	<input type="checkbox"/> Concretions
<input type="checkbox"/> Listed on Local Hydric Soil List	<input type="checkbox"/> Other

Remarks: colony

Wetland Soils YES NO

HYDROLOGY

Inundated? Yes No Saturated? Yes No Depth of/to Free Water: _____

<p>Primary Indicators:</p> <p><input type="checkbox"/> Inundated</p> <p><input type="checkbox"/> Saturated in Upper 12"</p> <p><input type="checkbox"/> Water Marks/Drift Lines</p> <p><input checked="" type="checkbox"/> Sediment Deposit</p> <p><input type="checkbox"/> Algal Matting</p> <p><input type="checkbox"/> Drainage Patterns in Wetlands</p>	<p>Secondary Indicators</p> <p><input type="checkbox"/> Oxidized Root Channels in Upper 12"</p> <p><input type="checkbox"/> Water-Stained Leaves</p> <p><input type="checkbox"/> Local Soil Survey Data</p> <p><input type="checkbox"/> Other</p>
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Remarks: Crack channel

Wetland Hydrology YES NO

WETLAND/WATERS DETERMINATION

Hydrophytic Vegetation Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Other Waters.: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Hydric Soils Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Wetland: Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
Wetland Hydrology Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	

Remarks: Channel 3-4' wide
Lower end of wetland swale

ROUTINE WETLAND DETERMINATION FORM

Project/Site: SRC Milling
 Applicant: SRC Milling
 Investigators: JG/BA
 Quad(s):

Date: May 20, 2003
 Sample Point: 317
 State: California
 County: Sacramento
 Section _____ Township _____ Range _____
 Atypical Situation? Yes No Potential Problem Area? Yes No Normal Circumstances? Yes No

VEGETATION

Dominant Plant Species	% Cover	Status	Non-Dominant Plant Species	% Cover	Status
<i>Glycyrrhiza</i>	90	OBL	<i>Elymus</i>		FACW?
			<i>Habenaria</i>		FAC
			<i>Ranunculus</i>		OBL

Percentage of dominant species that are OBL, FACW, or FAC: 100 %

Remarks:

Wetland Vegetation YES NO

SOILS

Map Unit Name (Series/Phase): Red Bluff-Redding Complex

Mottled? Yes No Gleyed? Yes No Matrix Color: 7.5YR 3/6 Mottle Color: 5YR 4/6

Redoximorphic Features:

<input type="checkbox"/> Gleyed or Low Chroma Colors	<input type="checkbox"/> Reducing Conditions
<input type="checkbox"/> Low Chroma w/ Mottles	<input type="checkbox"/> Sulfidic Odor
<input type="checkbox"/> Aquic Moisture Regime	<input type="checkbox"/> Concretions
<input type="checkbox"/> Listed on Local Hydric Soil List	<input type="checkbox"/> Other

Remarks: Infiltration

Wetland Soils YES NO

HYDROLOGY

Inundated? Yes No Saturated? Yes No Depth of/to Free Water: _____

Primary Indicators: <input type="checkbox"/> Inundated <input type="checkbox"/> Saturated in Upper 12" <input type="checkbox"/> Water Marks/Drift Lines <input type="checkbox"/> Sediment Deposit <input checked="" type="checkbox"/> Algal Matting <input type="checkbox"/> Drainage Patterns in Wetlands	Secondary Indicators: <input type="checkbox"/> Oxidized Root Channels in Upper 12" <input type="checkbox"/> Water-Stained Leaves <input type="checkbox"/> Local Soil Survey Data <input type="checkbox"/> Other
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Remarks: Shallow basin

Wetland Hydrology YES NO

WETLAND/WATERS DETERMINATION

Hydrophytic Vegetation Present?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Other Waters.: Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
Hydric Soils Present?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Wetland: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Wetland Hydrology Present?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	

Remarks:

ROUTINE WETLAND DETERMINATION FORM

Project/Site: SRC Milling

Date: May 20, 2003

Applicant: SRC Milling

Sample Point: 318

Investigators: JG/BA

County: Sacramento

State: California

Quad(s): Carmichael

Section 24 Township 0N Range 08

Atypical Situation? Yes No

Potential Problem Area? Yes No

Normal Circumstances? Yes No

VEGETATION

Dominant Plant Species	% Cover	Status	Non-Dominant Plant Species	% Cover	Status
<i>Erodium cicutarium</i>	40	-	<i>Aronia barbatula</i>		-
<i>Taraxacum officinale</i>	40	-	<i>Lemna terrestris</i>		-
			<i>Lotus parviflorus</i>		-
			<i>Heliconia sp</i>		-
			<i>Trifolium dubium</i>		FACU

Percentage of dominant species that are OBL, FACW, or FAC: 0 %

Remarks:

Wetland Vegetation YES NO

SOILS

Map Unit Name (Series/Phase): Red Bluff-Redding complex

Mottled? Yes / No / Gleyed? Yes / No / Matrix Color: _____ Mottle Color: _____

Redoximorphic Features:

- | | |
|---|--|
| <input type="checkbox"/> Gleyed or Low Chroma Colors | <input type="checkbox"/> Reducing Conditions |
| <input type="checkbox"/> Low Chroma w/ Mottles | <input type="checkbox"/> Sulfidic Odor |
| <input type="checkbox"/> Aquic Moisture Regime | <input type="checkbox"/> Concretions |
| <input type="checkbox"/> Listed on Local Hydric Soil List | <input type="checkbox"/> Other |

Remarks:

Hard, rocky.

Wetland Soils YES NO

HYDROLOGY

Inundated? Yes No Saturated? Yes No Depth of/to Free Water: _____

Primary Indicators:

Secondary Indicators

- | | |
|--|--|
| <input type="checkbox"/> Inundated | <input type="checkbox"/> Oxidized Root Channels in Upper 12" |
| <input type="checkbox"/> Saturated in Upper 12" | <input type="checkbox"/> Water-Stained Leaves |
| <input type="checkbox"/> Water Marks/Drift Lines | <input type="checkbox"/> Local Soil Survey Data |
| <input type="checkbox"/> Sediment Deposit | <input type="checkbox"/> Other |
| <input type="checkbox"/> Algal Matting | |
| <input type="checkbox"/> Drainage Patterns in Wetlands | |

Remarks:

Top of bank

Wetland Hydrology YES NO

WETLAND/WATERS DETERMINATION

Hydrophytic Vegetation Present?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Other Waters.: Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
Hydric Soils Present?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Wetland: Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
Wetland Hydrology Present?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	

Remarks:

No wetland parameters present.

ROUTINE WETLAND DETERMINATION FORM

Project/Site: SRC Milling

Date: May 20, 2003

Applicant: SRC Milling

Sample Point: 319

Investigators: JG/BA

County: Sacramento

State: California

Quad(s): Carmichael

Section 24 Township 3N Range 7E

Atypical Situation? Yes No

Potential Problem Area? Yes No

Normal Circumstances? Yes No

VEGETATION

Dominant Plant Species	% Cover	Status	Non-Dominant Plant Species	% Cover	Status
<u>Belam. multica.</u>	<u>30</u>	<u>FAC</u>	<u>Leon. trid. sarrac.</u>		<u>-</u>
<u>Nardus marit.</u>	<u>20</u>	<u>FAC</u>	<u>Plaxis stip.</u>		<u>OBL</u>
<u>Briza media</u>	<u>20</u>	<u>OBL</u>	<u>Trifolium pratense</u>		<u>FACW</u>
<u>h26</u>	<u>20</u>				

Percentage of dominant species that are OBL, FACW, or FAC: 100 %

Remarks:

Wetland Vegetation YES NO

SOILS

Map Unit Name (Series/Phase): Redding gravelly loam

Mottled? Yes / No Gleyed? Yes / No Matrix Color: 5 YR 3/4 Mottle Color: orange/brown faint

Redoximorphic Features:

<input type="checkbox"/> Gleyed or Low Chroma Colors	<input type="checkbox"/> Reducing Conditions
<input type="checkbox"/> Low Chroma w/ Mottles	<input type="checkbox"/> Sulfidic Odor
<input type="checkbox"/> Aquic Moisture Regime	<input type="checkbox"/> Concretions
<input type="checkbox"/> Listed on Local Hydric Soil List	<input type="checkbox"/> Other

Remarks: Inferred from veg and topography

Wetland Soils YES NO

HYDROLOGY

Inundated? Yes No Saturated? Yes No Depth of/to Free Water: _____

Primary Indicators: <input type="checkbox"/> Inundated <input type="checkbox"/> Saturated in Upper 12" <input type="checkbox"/> Water Marks/Drift Lines <input type="checkbox"/> Sediment Deposit <input checked="" type="checkbox"/> Algal Matting <input type="checkbox"/> Drainage Patterns in Wetlands	Secondary Indicators: <input type="checkbox"/> Oxidized Root Channels in Upper 12" <input type="checkbox"/> Water-Stained Leaves <input type="checkbox"/> Local Soil Survey Data <input type="checkbox"/> Other
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Remarks: Very moist, depression

Wetland Hydrology YES NO

WETLAND/WATERS DETERMINATION

Hydrophytic Vegetation Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Hydric Soils Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Other Waters.: Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
Wetland Hydrology Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Wetland: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	

Remarks: Marginal

ROUTINE WETLAND DETERMINATION FORM

Project/Site: SRC Milling

Date: May 20, 2003

Applicant: SRC Milling

Sample Point: 320

Investigators: JG/BA

County: Sacramento

State: California

Quad(s): Carmichael

Section 24 Township 8N Range 7E

Atypical Situation? Yes No

Potential Problem Area? Yes No

Normal Circumstances? Yes No

VEGETATION

Dominant Plant Species	% Cover	Status	Non-Dominant Plant Species	% Cover	Status
<u>Juncus dubia</u>	<u>60</u>	<u>FACU</u>	<u>Juncus dubia</u>		
<u>Lolium perenne</u>	<u>30</u>	<u>-</u>	<u>Trifolium hybridum</u>		<u>FACW</u>

Percentage of dominant species that are OBL, FACW, or FAC: 0 %

Remarks:

Wetland Vegetation YES NO

SOILS

Map Unit Name (Series/Phase): Redding gravelly loam

Mottled? Yes No Gleyed? Yes No Matrix Color: 7.5 YR 3/4 Mottle Color: Orange, faint, indistinct

Redoximorphic Features:

<input type="checkbox"/> Gleyed or Low Chroma Colors	<input type="checkbox"/> Reducing Conditions
<input type="checkbox"/> Low Chroma w/ Mottles	<input type="checkbox"/> Sulfidic Odor
<input type="checkbox"/> Aquic Moisture Regime	<input type="checkbox"/> Concretions
<input type="checkbox"/> Listed on Local Hydric Soil List	<input type="checkbox"/> Other

Remarks:

Wetland Soils YES NO

HYDROLOGY

Inundated? Yes No Saturated? Yes No Depth of/to Free Water: _____

Primary Indicators: <input type="checkbox"/> Inundated <input type="checkbox"/> Saturated in Upper 12" <input type="checkbox"/> Water Marks/Drift Lines <input type="checkbox"/> Sediment Deposit <input type="checkbox"/> Algal Matting <input type="checkbox"/> Drainage Patterns in Wetlands	Secondary Indicators: <input type="checkbox"/> Oxidized Root Channels in Upper 12" <input type="checkbox"/> Water-Stained Leaves <input type="checkbox"/> Local Soil Survey Data <input type="checkbox"/> Other
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Remarks: Above depression

Wetland Hydrology YES NO

WETLAND/WATERS DETERMINATION

Hydrophytic Vegetation Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Other Waters.: Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
Hydric Soils Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Wetland: Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
Wetland Hydrology Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	

Remarks: point is outside the depression

APPENDIX B

Plant Species Observed on the SRC Milling Property

Appendix B. Plant Species Observed on the SRC Milling Property

Common Name	Taxon	Wetland Status
Annual beard grass	<i>Polypogon monspeliensis</i>	FACW+
Annual bluegrass	<i>Poa annua</i>	FACW-
Annual checker mallow	<i>Sidalcea calycosa subsp. calycosa</i>	OBL
Annual hairgrass	<i>Deschampsia danthonioides</i>	FACW
Aquatic buttercup	<i>Ranunculus aquatilis</i>	OBL
Barbed goatgrass	<i>Aegilops triuncialis</i>	-
Bermuda grass	<i>Cynodon dactylon</i>	FAC
Bindweed	<i>Convolvulus arvensis</i>	-
Blinks	<i>Montia fontana</i>	OBL
Blue dicks	<i>Dichelostemma capitatum subsp. capitatum</i>	-
Boccone's sand-spurrey	<i>Spergularia bocconi</i>	-
Boggs Lake dodder	<i>Cuscuta howelliana</i>	-
Bractless hedge-hyssop	<i>Gratiola ebracteata</i>	OBL
Brass-buttons	<i>Cotula coronopifolia</i>	FACW+
Broad-leaf filaree	<i>Erodium botrys</i>	-
Brome fescue	<i>Vulpia bromoides</i>	FACW
California burclover	<i>Medicago polymorpha</i>	-
California poppy	<i>Eschscholzia californica</i>	-
Capped rush	<i>Juncus capitatus</i>	FACU
Chaffweed	<i>Anagalis minimus</i>	FACW
Clover	<i>Trifolium glomeratum</i>	-
Common fiddleneck	<i>Amsinckia menziesii</i>	-
Common groundsel	<i>Senecio vulgaris</i>	NI*
Common knotweed	<i>Polygonum aviculare</i>	FAC
Common monkeyflower	<i>Mimulus guttatus</i>	OBL
Common purslane	<i>Portulaca oleracea</i>	FAC
Common vetch	<i>Vicia sativa</i>	FACU
Creeping spikerush	<i>Eleocharis macrostachya</i>	OBL
Curly dock	<i>Rumex crispus</i>	FACW-
Cut-leaf geranium	<i>Geranium dissectum</i>	-
Dallis grass	<i>Paspalum dilatatum</i>	FAC
Double-horned downingia	<i>Downingia bicornuta var. bicornuta</i>	OBL
Douglas' meadowfoam	<i>Limnanthes douglasii subsp. rosea</i>	OBL
Douglas' mesa mint	<i>Pogogyne douglasii</i>	OBL
Duckweed	<i>Lemna sp.</i>	OBL
Dwarf brodiaea	<i>Brodiaea minor</i>	-
Dwarf sack clover	<i>Trifolium depauperatum</i>	FAC-
Dwarf woolly-heads	<i>Psilocarphus brevissimus var. brevissimus</i>	OBL

Common Name	Taxon	Wetland Status
Everlasting cudweed	<i>Pseudognaphalium luteoalbum</i>	FACW-
Few-seed bitter cress	<i>Cardamine oligosperma</i>	FACW
Fiddle dock	<i>Rumex pulcher</i>	FAC+
Fitch's spikeweed	<i>Centromadia fitchii</i>	-
Flowering quillwort	<i>Lilaea scilloides</i>	OBL
Foxtail barley	<i>Hordeum murinum subsp. leporinum</i>	NI
Fremont cottonwood	<i>Populus fremontii subsp. fremontii</i>	FACW
Fremont's goldfield	<i>Lasthenia fremontii</i>	OBL
Fryingpan poppy	<i>Eschscholzia lobbii</i>	-
Greene's popcornflower	<i>Plagiobothrys greenei</i>	FACW
Hartweg's odontostomum	<i>Odontostomum hartwegii</i>	-
Harvest brodiaea	<i>Brodiaea elegans subsp. elegans</i>	FACU
Holozonia	<i>Holozonia filipes</i>	FACU
Hyssop loosestrife	<i>Lythrum hyssopifolia</i>	FACW
Inch-high rush	<i>Juncus uncialis</i>	OBL
Iris-leaf rush	<i>Juncus xiphioides</i>	OBL
Italian ryegrass	<i>Lolium multiflorum</i>	FAC*
Italian thistle	<i>Carduus pycnocephalus</i>	-
June centaury	<i>Zeltnera muehlenbergii</i>	FACW
Larger water-starwort	<i>Callitriche heterophylla var. heterophylla</i>	OBL
Least spikerush	<i>Eleocharis acicularis var. acicularis</i>	OBL
Legenere	<i>Legenere limosa</i>	OBL
Little hop clover	<i>Trifolium dubium</i>	FACU*
Long-beaked hawkbit	<i>Leontodon saxatilis subsp. longirostris</i>	-
Mediterranean barley	<i>Hordeum marinum subsp. gussoneanum</i>	FAC
Medusahead	<i>Taeniatherum caput-medusae</i>	-
Mexican rush	<i>Juncus mexicanus</i>	FACW
Milk thistle	<i>Silybum marianum</i>	-
Miniature lupine	<i>Lupinus bicolor</i>	-
Mouse-ear chickweed	<i>Cerastium glomeratum</i>	FACU
Narrowleaf mules ears	<i>Wyethia angustifolia</i>	FACU-
Needle-leaved navarretia	<i>Navarretia intertexta subsp. intertexta</i>	OBL
Orcutt's quillwort	<i>Isoetes orcuttii</i>	OBL
Oregon woolly-heads	<i>Psilocarphus oregonus</i>	OBL
Owl's-clover	<i>Castilleja camprestis subsp. campestris</i>	OBL
Owl's-clover	<i>Triphysaria pusilla</i>	-
Owyhee mudwort	<i>Limosella acaulis</i>	OBL
Pacific foxtail	<i>Alopecurus saccatus</i>	OBL
Pineapple-weed	<i>Matricaria discoidea</i>	FACU
Prickly lettuce	<i>Lactuca serriola</i>	FAC

Common Name	Taxon	Wetland Status
Prickly sow-thistle	<i>Sonchus asper</i>	FAC
Puncture vine	<i>Tribulus terrestris</i>	-
Purslane speedwell	<i>Veronica peregrina subsp. xalapensis</i>	OBL
Red maids	<i>Calandrinia ciliata</i>	FACU*
Ripgut grass	<i>Bromus diandrus</i>	-
Rose clover	<i>Trifolium hirtum</i>	-
Round woolly-marbles	<i>Psilocarphus tenellus var. globiferus</i>	OBL
Ruby sand-spurrey	<i>Spergularia rubra</i>	FAC-
Rush	<i>Juncus sp.</i>	VARIES
Rusty popcornflower	<i>Plagiobothrys nothofulvus</i>	FAC
Sacramento mesamint	<i>Pogogyne zizphoroides</i>	OBL
Scarlet pimpernel	<i>Anagalis arvensis</i>	FAC
Sheep sorrel	<i>Rumex acetosella</i>	FAC-
Shepherd's purse	<i>Capsella bursa-pastoris</i>	FAC-
Shining peppergrass	<i>Lepidium nitidum var. nitidum</i>	-
Short-podded mustard	<i>Hirschfeldia incana</i>	-
Silver European hairgrass	<i>Aira caryophyllea</i>	-
Silverpuffs	<i>Microseris sp.</i>	-
Slender wild oat	<i>Avena barbata</i>	-
Small quaking grass	<i>Briza minor</i>	FACW-
Smooth cat's-ear	<i>Hypochaeris glabra</i>	-
Smooth goldfields	<i>Lasthenia glaberrima</i>	OBL
Soap plant	<i>Chlorogalum pomeridianum var. pomeridianum</i>	-
Soft chess	<i>Bromus hordeaceus</i>	FACU-
Solano downingia	<i>Downingia ornatissima var. ornatissima</i>	OBL
Spanish-clover	<i>Lotus purshianus var. purshianus</i>	-
Spiny-fruit buttercup	<i>Ranunculus muricatus</i>	FACW+
Spoke-pod	<i>Thysanocarpus radians</i>	-
Stipitate popcornflower	<i>Plagiobothrys stipitatus var. micranthus</i>	OBL
Subterranean clover	<i>Trifolium subterraneum</i>	-
Succulent owl's-clover	<i>Castilleja campestris subsp. succulenta</i>	OBL
Swamp pricklegrass	<i>Crypsis schoenoides</i>	OBL
Tall flatsedge	<i>Cyperus eragrostis</i>	FACW
Timwort	<i>Cicendia quadrangularis</i>	-
Toad rush	<i>Juncus bufonius</i>	FACW+
Tomcat clover	<i>Trifolium willdenovii</i>	-
Tricolored monkeflower	<i>Mimulus tricolor</i>	OBL
Triphysaria	<i>Triphysaria versicolor subsp. faucibarbata</i>	-
Tumble pigweed	<i>Amaranthus albus</i>	FACU
Turkey mullein	<i>Croton setigerus</i>	-

Common Name	Taxon	Wetland Status
Valley tassels	<i>Castilleja attenuata</i>	-
Vasey's coyote-thistle	<i>Eryngium vaseyi</i>	FACW
Vernal pool buttercup	<i>Ranunculus bonariensis var. trisepalus</i>	OBL
Virgate tarweed	<i>Holocarpha virgata subsp. virgata</i>	-
Water pygmy-weed	<i>Crassula aquatica</i>	OBL
Wayside peppergrass	<i>Lepidium oblongum var. oblongum</i>	-
Western mannagrass	<i>Glyceria x occidentalis</i>	OBL
Western marsh cudweed	<i>Gnaphalium palustre</i>	FACW
White brodiaea	<i>Triteleia hyacinthina</i>	FACW*
White meadowfoam	<i>Limnanthes alba subsp. alba</i>	OBL
White-flowered navarretia	<i>Navarretia leucocephala subsp. leucocephala</i>	OBL
White-stem filaree	<i>Erodium moschatum</i>	-
White-tip clover	<i>Trifolium variegatum</i>	FACW-
Wild oat	<i>Avena fatua</i>	-
Wild radish	<i>Raphanus sativus</i>	-
Wild-pea	<i>Lathyrus cicera</i>	-
Willow	<i>Salix sp.</i>	VARIES
Willow dock	<i>Rumex salicifolius</i>	OBL
Windmill-pink	<i>Silene gallica</i>	-
Winged water-starwort	<i>Callitriche marginata</i>	OBL
Winter vetch	<i>Vicia villosa</i>	-
Yellow glandweed	<i>Parentucellia viscosa</i>	-
Yellow star-thistle	<i>Centaurea solstitialis</i>	-

APPENDIX C
Wetland Delineation Map