

ATTACHMENT A

Routine Wetland Determination Forms

Project/Site: South Sutter Specific Plan Date: 03 Oct 2005 Sample Point: 01
 Applicant/Owner: Lennar Communities, Inc. Field Investigator(s): K. Kwan / P. Gill
 County: Sutter State: CA Plant Community: rice field
 Quad(s): Pleasant Grove, CA Section/Township/Range: T. 11 North, R. 4 East, sec 26
 Do normal environmental conditions exist site? Yes No If no, explain: _____
 Atypical Situation? Yes No Explain: _____
 Is this a potential Problem Area? Yes No Explain: seasonal inundation

VEGETATION

HYDROPHYTIC VEGETATION? Yes No

Dominant Species	Ind. Status	Stratum	Rel. % Cover	Dominant Species	Ind. Status	Stratum	Rel. % Cover
1) <u>Phragmites</u>	<u>FAC+</u>	<u>herb.</u>	<u>59</u>	5) _____	_____	_____	_____
2) <u>Juncus</u>	<u>FACW</u>	<u>herb</u>	<u>24</u>	6) _____	_____	_____	_____
3) _____	_____	_____	_____	7) _____	_____	_____	_____
4) _____	_____	_____	_____	8) _____	_____	_____	_____

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

Comments: _____

HYDROLOGY

WETLAND HYDROLOGY? Yes No

Recorded Data: Yes No If yes, _____

Depth of surface water: _____ (in.) Depth to free water in pit: _____ (in.) Depth to saturated soil: >4 (in.)

Primary Indicators: Inundated Saturated in Upper 12 in. Water Marks Drift Lines Sediment Deposits Drainage Patterns in Wetland:

Secondary Indicators (2 or more required):

Oxidized Root Channels in Upper 12 in. Water-stained Leaves Local Soil Survey Data FAC-Neutral Test Other cracked soil

Comments: _____

SOILS

HYDRIC SOILS? Yes No

Series/Phase: 129 Gault clay, 0 to 2 percent slopes Drainage Class: mod. well drained

Taxonomy [Subgroup]: thermic Typic Chromoxererts Confirm Map Type: Yes No

Histosol Histic Epipedon Sulfidic Odor Presumed Aquic Moisture Regime Reducing Conditions Gleyed/Low Chroma

Organic Content in Sandy Soils Organic Streaking in Sandy Soils Listed on Hydric Soils List Concretions Other _____

Inclusions [Series/Phase]: Laguna, Jackson, or Clear Lake (basin floor) On Hydric Soils List: Yes No

Depth (in.)	Horizon	Matrix Color	Mottle Color	Mottle (Abund/Contrast/Size)	Texture, Concretions, Structure
<u>0-4"</u>	<u>A</u>	<u>10YR4/3</u>	<u>10YR6/6</u>	<u>>5%</u>	<u>clay loam</u>
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____

Comments: _____

*** DECISION ***

WETLAND / WATERS DETERMINATION? Yes No

Rationale: all criteria have been met but supported by irrigation

General comments: fallow rice field was not flooded or harvested this past season (05) Wetland Type: rice field (currently fallow)

Project/Site: South Sutter Specific Plan Date: 03 Oct 2005 Sample Point: 02

Applicant/Owner: Lennar Communities, Inc. Field Investigator(s): K. Kwam / P. Gill

County: Sutter State: CA Plant Community: annual Grassland

Quad(s): Versna, CA Section/Township/Range: T. 11 North, R. 4 East, sec 27

Do normal environmental conditions exist site? Yes No If no, explain: _____

Atypical Situation? Yes No Explain: recently disked; most plants are unidentifiable

Is this a potential Problem Area? Yes No Explain: seasonal inundation

VEGETATION

HYDROPHYTIC VEGETATION? Yes No

Dominant Species	Ind. Status	Stratum	Rel. % Cover	Dominant Species	Ind. Status	Stratum	Rel. % Cover
1) <u>Horsetail</u>	<u>Freq</u>	<u>herb</u>	<u>82</u>	5) _____	_____	_____	_____
2) _____	_____	_____	_____	6) _____	_____	_____	_____
3) _____	_____	_____	_____	7) _____	_____	_____	_____
4) _____	_____	_____	_____	8) _____	_____	_____	_____

Percentage of dominant species that are OBL, FACW, and/or FAC [excluding FAC-]: 1/1 = 100 %

Comments: recently tilled; most vegetation was unidentifiable

HYDROLOGY

WETLAND HYDROLOGY? Yes No

Recorded Data: Yes No If yes, _____

Depth of surface water: _____ (in.) Depth to free water in pit: _____ (in.) Depth to saturated soil: >10 (in.)

Primary Indicators: Inundated Saturated in Upper 12 in. Water Marks Drift Lines Sediment Deposits Drainage Patterns in Wetland:

Secondary Indicators (2 or more required):

Oxidized Root Channels in Upper 12 in. Water-stained Leaves Local Soil Survey Data FAC-Neutral Test Other _____

Comments: redox features at/near surface suggests periodic soil saturation, more so than the adjacent uplands

SOILS

HYDRIC SOILS? Yes No

Series/Phase: 129 Galt clay, 0 to 2 percent slopes Drainage Class: mod. well draining

Taxonomy [Subgroup]: thermic Typic Chromoxererts Confirm Map Type: Yes No

Histosol Histic Epipedon Sulfidic Odor Presumed Aquic Moisture Regime Reducing Conditions Gleyed/Low Chroma

Organic Content in Sandy Soils Organic Streaking in Sandy Soils Listed on Hydric Soils List Concretions Other _____

Inclusions [Series/Phase]: Caping, Siltstone, or Clear Lake (basin floor) On Hydric Soils List: Yes No

Depth (in.)	Horizon	Matrix Color	Mottle Color	Mottle (Abund/Contrast/Size)	Texture, Concretions, Structure
<u>0-6</u>	<u>loose/tilled soil</u>	_____	_____	_____	<u>clay loam</u>
<u>6-10</u>	<u>A</u>	<u>10YR 2.3/2</u>	<u>10YR 2.5/8</u>	<u>>50%</u>	<u>clay loam</u>
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____

Comments: _____

*** DECISION ***

WETLAND / WATERS DETERMINATION? Yes No

Rationale: _____

General comments: recently disked; topographic basin; soil has significant redox features at/near surface Wetland Type: seasonal wetland scribe

HERBACEOUS COVER / DOMINANCE WORK SHEET

<u>Species Observed</u>	<u>Actual Cover</u>	<u>Relative Cover</u>
Hor mar	9	82
Lol mul	2	18
Vic sp.	<1	<1
Bro hor	<1	<1
TOTAL SUM (Σ) =	<u>11</u>	100%

COVER:

Vegetation 10

Bare Ground _____

Rocks _____

Other _____

TOTAL = 100%

*recently tilled area,
so veg cover % doesn't
reflect "natural"
condition*

<u>Species (Descending Order)</u>	<u>Relative Cover</u>	<u>Cumulative Cover</u>	<u>Indicator Status</u>	<u>Dominants</u>
TOTAL SUM (Σ) =	100%			

Project/Site: South Sutter Specific Plan Date: 10/3/05 Sample Point: 03

Applicant/Owner: Lennar Communities, Inc. Field Investigator(s): K. Kwan / P. Gill

County: Sutter State: CA Plant Community: Annual grassland

Quad(s): Verona, CA Section/Township/Range: T.11 North, R. 4 East, Sec. 27

Do normal environmental conditions exist site? Yes No If no, explain: _____

Atypical Situation? Yes No Explain: recently disked; most plants are unidentifiable

Is this a potential Problem Area? Yes No Explain: _____

VEGETATION

HYDROPHYTIC VEGETATION? Yes No

Dominant Species	Ind. Status	Stratum	Rel. % Cover	Dominant Species	Ind. Status	Stratum	Rel. % Cover
1) <u>Lol mnl</u>	<u>Fac</u>	<u>herb</u>	<u>38</u>	5) _____	_____	_____	_____
2) <u>Ave sp</u>	<u>N/L</u>	<u>herb</u>	<u>38</u>	6) _____	_____	_____	_____
3) <u>Bro hor</u>	<u>Fac U</u>	<u>herb</u>	<u>23</u>	7) _____	_____	_____	_____
4) _____	_____	_____	_____	8) _____	_____	_____	_____

Percentage of dominant species that are OBL, FACW, and/or FAC [excluding FAC-]: 1/3 = 33 %

Comments: _____

HYDROLOGY

WETLAND HYDROLOGY? Yes No

Recorded Data: Yes No If yes, _____

Depth of surface water: _____ (in.) Depth to free water in pit: _____ (in.) Depth to saturated soil: >10 (in.)

Primary Indicators: Inundated Saturated in Upper 12 in. Water Marks Drift Lines Sediment Deposits Drainage Patterns in Wetland:

Secondary Indicators (2 or more required):

Oxidized Root Channels in Upper 12 in. Water-stained Leaves Local Soil Survey Data FAC-Neutral Test Other _____

Comments: _____

SOILS

HYDRIC SOILS? Yes No

Series/Phase: 129 Gault clay, 0 to 2 percent slopes Drainage Class: mod well drained

Taxonomy [Subgroup]: thermic Typic Chromoxererts Confirm Map Type: Yes No

Histosol Histic Epipedon Sulfidic Odor Presumed Aquic Moisture Regime Reducing Conditions Gleyed/Low Chroma

Organic Content in Sandy Soils Organic Streaking in Sandy Soils Listed on Hydric Soils List Concretions Other _____

Inclusions [Series/Phase]: hydric components/inclusion not in this landform On Hydric Soils List: Yes No

Depth (in.)	Horizon	Matrix Color	Mottle Color	Mottle (Abund/Contrast/Size)	Texture, Concretions, Structure
<u>0-6</u>	<u>disked</u>	<u>10YR 4/3</u>	<u>-</u>	<u>-</u>	<u>Sandy loam</u>
<u>6-10</u>	<u>A</u>	<u>10YR 4/3</u>	<u>none</u>	<u>-</u>	<u>clay loam</u>

Comments: absence of redox features here as compared to data pt. 02

*** DECISION ***

WETLAND / WATERS DETERMINATION? Yes No

Rationale: all criteria have not been met

General comments: _____

Wetland Type: _____

HERBACEOUS COVER / DOMINANCE WORK SHEET

<u>Species Observed</u>	<u>Actual Cover</u>	<u>Relative Cover</u>
Lol and	5	38
Bro hor	3	23
Ave sp	5	38
TOTAL SUM (Σ) =	<u>13</u>	100%

COVER:

Vegetation	<u>10</u>
Bare Ground	_____
Rocks	_____
Other	_____
TOTAL =	100%

recently filled

<u>Species (Descending Order)</u>	<u>Relative Cover</u>	<u>Cumulative Cover</u>	<u>Indicator Status</u>	<u>Dominants</u>
TOTAL SUM (Σ) =	100%			

Project/Site: South Sutter Specific Plan Date: 03 Oct 2005 Sample Point: 04
 Applicant/Owner: Lennar Communities, Inc. Field Investigator(s): K. Karen J.P. Gill
 County: Sutter State: CA Plant Community: Fallow rice field
 Quad(s): Verona, CA Section/Township/Range: T. 11 North R. 4 East, sec 26
 Do normal environmental conditions exist site? Yes No If no, explain: _____
 Atypical Situation? Yes No Explain: _____
 Is this a potential Problem Area? Yes No Explain: seasonally flooded

VEGETATION

HYDROPHYTIC VEGETATION? Yes No

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

Percentage of dominant species that are OBL, FACW, and/or FAC [excluding FAC-]: 1/1 = 100 %

Comments: _____

HYDROLOGY

WETLAND HYDROLOGY? Yes No

Recorded Data: Yes No If yes, _____
 Depth of surface water: _____ (in.) Depth to free water in pit: _____ (in.) Depth to saturated soil: > 8 (in.)
 Primary Indicators: Inundated Saturated in Upper 12 in. Water Marks Drift Lines Sediment Deposits Drainage Patterns in Wetland:
 Secondary Indicators (2 or more required):
 Oxidized Root Channels in Upper 12 in. Water-stained Leaves Local Soil Survey Data FAC-Neutral Test Other _____
 Comments: _____

SOILS

HYDRIC SOILS? Yes No

Series/Phase: 160 San Joaquin-Areoles-Durochrepts, 0-1% slopes Drainage Class: well drained
 Taxonomy [Subgroup]: thermic Abrupt Durochrepts Confirm Map Type: Yes No
 Histosol Histic Epipedon Sulfidic Odor Presumed Aquic Moisture Regime Reducing Conditions Gleyed/Low Chroma
 Organic Content in Sandy Soils Organic Streaking in Sandy Soils Listed on Hydric Soils List Concretions Other _____
 Inclusions [Series/Phase]: _____ On Hydric Soils List: Yes No

Depth (in.)	Horizon	Matrix Color	Mottle Color	Mottle (Abund/Contrast/Size)	Texture, Concretions, Structure
<u>0-8</u>	<u>A</u>	<u>10YR2/3</u>	<u>-</u>	<u>-</u>	<u>sandy clay loam</u>
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____

 Comments: _____

*** DECISION ***

WETLAND / WATERS DETERMINATION? Yes No

Rationale: all criteria have not been met
 General comments: rice field; fallow for '05 season; last flooded in 2002
 Wetland Type: _____

HERBACEOUS COVER / DOMINANCE WORK SHEET

<u>Species Observed</u>	<u>Actual Cover</u>	<u>Relative Cover</u>
Lol mnl	75	75
Rap rap	15	15
Lac ser	5	5
Epi bra	2	2
Lyt hys	1	1
Vic sp	1	1
Cen sol	1	1
TOTAL SUM (Σ) = <u>100</u>		100%

<u>COVER:</u>	
Vegetation	<u>75</u>
Bare Ground	_____
Rocks	_____
Other _____	_____
TOTAL =	100%

<u>Species (Descending Order)</u>	<u>Relative Cover</u>	<u>Cumulative Cover</u>	<u>Indicator Status</u>	<u>Dominants</u>
TOTAL SUM (Σ) =		100%		

Project/Site: South Sutter Specific Plan Date: 03 Oct 2005 Sample Point: 05
 Applicant/Owner: Lennar Communities, Inc. Field Investigator(s): K. Kwan / P. Gill
 County: Sutter State: CA Plant Community: Dat Field
 Quad(s): Verona, CA Section/Township/Range: T. 11 North, R. 4 East, sec 35
 Do normal environmental conditions exist site? Yes No If no, explain: _____
 Atypical Situation? Yes No Explain: _____
 Is this a potential Problem Area? Yes No Explain: _____

VEGETATION

HYDROPHYTIC VEGETATION? Yes No

Dominant Species	Ind. Status	Stratum	Rel. % Cover	Dominant Species	Ind. Status	Stratum	Rel. % Cover
1) <u>Ave sat</u>	<u>N/L</u>	<u>herb</u>	<u>100</u>	5) _____	_____	_____	_____
2) _____	_____	_____	_____	6) _____	_____	_____	_____
3) _____	_____	_____	_____	7) _____	_____	_____	_____
4) _____	_____	_____	_____	8) _____	_____	_____	_____

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

HYDROLOGY

WETLAND HYDROLOGY? Yes No

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

SOILS

HYDRIC SOILS? Yes No

Series/Phase: 160 San Joaquin-Arents-Durachrepts, 0-1% slopes Drainage Class: well drained
 Taxonomy [Subgroup]: thermic Abruptic Durixeralfs Confirm Map Type: Yes No
 Histosol Histic Epipedon Sulfidic Odor Presumed Aquic Moisture Regime Reducing Conditions Gleyed/Low Chroma
 Organic Content in Sandy Soils Organic Streaking in Sandy Soils Listed on Hydric Soils List Concretions Other _____
 Inclusions [Series/Phase]: _____ On Hydric Soils List: Yes No

Depth (in.)	Horizon	Matrix Color	Mottle Color	Mottle (Abund/Contrast/Size)	Texture, Concretions, Structure
<u>0-6</u>	<u>A</u>	<u>7.5 YR 3/2</u>	<u>7.5 YR 5/4</u>	<u>2%</u>	<u>Sandy clay loam</u>
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____

 Comments: _____

*** DECISION ***

WETLAND / WATERS DETERMINATION? Yes No

Rationale: all criteria have not been met
 General comments: levelled field planted with aunts
 Wetland Type: _____

HERBACEOUS COVER / DOMINANCE WORK SHEET

<u>Species Observed</u>	<u>Actual Cover</u>	<u>Relative Cover</u>
<u>Ave sat</u>	<u>90</u>	<u>100</u>
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____
TOTAL SUM (Σ) =	<u>90</u>	100%

COVER:

Vegetation	<u>90</u>
Bare Ground	_____
Rocks	_____
Other	_____
TOTAL =	100%

<u>Species (Descending Order)</u>	<u>Relative Cover</u>	<u>Cumulative Cover</u>	<u>Indicator Status</u>	<u>Dominants</u>
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____
TOTAL SUM (Σ) =	100%			

Project/Site: South Sutter Specific Plan Date: 03 Oct 2005 Sample Point: 06

Applicant/Owner: Lennar Communities, Inc. Field Investigator(s): K. Kwan / P. Gill

County: Sutter State: CA Plant Community: Fallow Rice Field

Quad(s): Verona, CA Section/Township/Range: T. 11 North, R. 4 East, sec 23

Do normal environmental conditions exist site? Yes No If no, explain: _____

Atypical Situation? Yes No Explain: _____

Is this a potential Problem Area? Yes No Explain: Seasonal inundation/saturation

VEGETATION

HYDROPHYTIC VEGETATION? Yes No

Dominant Species	Ind. Status	Stratum	Rel. % Cover	Dominant Species	Ind. Status	Stratum	Rel. % Cover
1) <u>Jun bot</u>	<u>FACW</u>	<u>herb</u>	<u>33</u>	5) _____	_____	_____	_____
2) <u>Lac ser</u>	<u>FAC</u>	<u>herb</u>	<u>22</u>	6) _____	_____	_____	_____
3) _____	_____	_____	_____	7) _____	_____	_____	_____
4) _____	_____	_____	_____	8) _____	_____	_____	_____

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

Comments: _____

HYDROLOGY

WETLAND HYDROLOGY? Yes No

Recorded Data: Yes No If yes, _____

Depth of surface water: _____ (in.) Depth to free water in pit: _____ (in.) Depth to saturated soil: > 8 (in.)

Primary Indicators: Inundated Saturated in Upper 12 in. Water Marks Drift Lines Sediment Deposits Drainage Patterns in Wetland:

Secondary Indicators (2 or more required):

Oxidized Root Channels in Upper 12 in. Water-stained Leaves Local Soil Survey Data FAC-Neutral Test Other cracked soil

Comments: _____

SOILS

HYDRIC SOILS? Yes No

Series/Phase: 160 Sandosquin-Arcents-Durachrepts complex, 0-1% slopes Drainage Class: well drained

Taxonomy [Subgroup]: thermic Abruptic Durixerolls Confirm Map Type: Yes No

Histosol Histic Epipedon Sulfidic Odor Presumed Aquic Moisture Regime Reducing Conditions Gleyed/Low Chroma

Organic Content in Sandy Soils Organic Streaking in Sandy Soils Listed on Hydric Soils List Concretions Other _____

Inclusions [Series/Phase]: _____ On Hydric Soils List: Yes No

Depth (in.)	Horizon	Matrix Color	Mottle Color	Mottle (Abund/Contrast/Size)	Texture, Concretions, Structure
<u>0-8</u>	<u>A</u>	<u>15YR 4/2</u>	<u>-</u>	<u>-</u>	<u>sandy clay loam</u>
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____

Comments: absence of redox features is likely due to low iron content in soil

*** DECISION ***

WETLAND / WATERS DETERMINATION? Yes No

Rationale: obvious surface hydrologic indicators and hydrophytic plant dominance th. is supported by irrigation

General comments: _____
 Wetland Type: rice field (currently fallow)

HERBACEOUS COVER / DOMINANCE WORK SHEET

<u>Species Observed</u>	<u>Actual Cover</u>	<u>Relative Cover</u>	<u>COVER:</u>
Pol mon	15	16	Vegetation 80
Jun but	30	33	Bare Ground _____
Luc sen	20	22	Rocks _____
Grindelia sp.	5	5	Other _____
Ver per	10	11	TOTAL = 100%
Epi cil	1	1	
Gly dec	10	11	
TOTAL SUM (Σ) = <u>91</u>		100%	

<u>Species (Descending Order)</u>	<u>Relative Cover</u>	<u>Cumulative Cover</u>	<u>Indicator Status</u>	<u>Dominants</u>
TOTAL SUM (Σ) = <u>100%</u>				

Project/Site: South Sutter Specific Plan Date: 03 Oct 2005 Sample Point: 07
 Applicant/Owner: Lennar Communities, Inc. Field Investigator(s): K. Kwan / P. Gill
 County: Sutter State: CA Plant Community: Fallow rice field
 Quad(s): Verona, CA Section/Township/Range: T. 11 North, R. 4 East, sec 22
 Do normal environmental conditions exist site? Yes No If no, explain: _____
 Atypical Situation? Yes No Explain: _____
 Is this a potential Problem Area? Yes No Explain: _____

VEGETATION

HYDROPHYTIC VEGETATION? Yes No

Dominant Species	Ind. Status	Stratum	Rel. % Cover	Dominant Species	Ind. Status	Stratum	Rel. % Cover
1) <u>Bra sp</u>	<u>N/C</u>	<u>herb</u>	<u>41</u>	5) _____	_____	_____	_____
2) <u>Ave sat</u>	<u>N/C</u>	<u>herb</u>	<u>54</u>	6) _____	_____	_____	_____
3) _____	_____	_____	_____	7) _____	_____	_____	_____
4) _____	_____	_____	_____	8) _____	_____	_____	_____

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

Comments: _____

HYDROLOGY

WETLAND HYDROLOGY? Yes No

Recorded Data: Yes No If yes, _____

Depth of surface water: _____ (in.) Depth to free water in pit: _____ (in.) Depth to saturated soil: > 8 (in.)

Primary Indicators: Inundated Saturated in Upper 12 in. Water Marks Drift Lines Sediment Deposits Drainage Patterns in Wetland:

Secondary Indicators (2 or more required):

Oxidized Root Channels in Upper 12 in. Water-stained Leaves Local Soil Survey Data FAC-Neutral Test Other _____

Comments: _____

SOILS

HYDRIC SOILS? Yes No

Series/Phase: 160 San Joaquin - Arcents - Durachrepts complex, 0-10% slope Drainage Class: well drained

Taxonomy [Subgroup]: _____ Confirm Map Type: Yes No

Histosol Histic Epipedon Sulfidic Odor Presumed Aquic Moisture Regime Reducing Conditions Gleyed/Low Chroma

Organic Content in Sandy Soils Organic Streaking in Sandy Soils Listed on Hydric Soils List Concretions Other _____

Inclusions [Series/Phase]: _____ On Hydric Soils List: Yes No

Depth (in.)	Horizon	Matrix Color	Mottle Color	Mottle (Abund/Contrast/Size)	Texture, Concretions, Structure
<u>0-8</u>	<u>A</u>	<u>7.5R 3/2</u>	<u>-</u>	<u>-</u>	<u>clay loam</u>
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____

Comments: _____

*** DECISION ***

WETLAND / WATERS DETERMINATION? Yes No

Rationale: all criteria have not been met

General comments: Fallow rice field; does not inundate naturally

Wetland Type: _____

HERBACEOUS COVER / DOMINANCE WORK SHEET

<u>Species Observed</u>	<u>Actual Cover</u>	<u>Relative Cover</u>
<i>Brassica sp.</i>	60	41
<i>Ave sat</i>	80	54
<i>Lol mnd</i>	2	1
<i>Ave fast</i>	5	3
<i>Rum cri</i>	1	1
TOTAL SUM (Σ) =	<u>148</u>	100%

COVER:

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

<u>Species (Descending Order)</u>	<u>Relative Cover</u>	<u>Cumulative Cover</u>	<u>Indicator Status</u>	<u>Dominants</u>
TOTAL SUM (Σ) =	100%			

Project/Site: South Sutter Specific Plan Date: 03 Oct 2005 Sample Point: 08

Applicant/Owner: Lennar Communities, Inc. Field Investigator(s): K. Kwan / P. G. '11

County: Sutter State: CA Plant Community: Fallow rice field

Quad(s): Verona, CA Section/Township/Range: T. 11 North, R. 4 East, sec 21

Do normal environmental conditions exist site? Yes No If no, explain: _____

Atypical Situation? Yes No Explain: _____

Is this a potential Problem Area? Yes No Explain: _____

VEGETATION

HYDROPHYTIC VEGETATION? Yes No

Dominant Species	Ind. Status	Stratum	Rel. % Cover	Dominant Species	Ind. Status	Stratum	Rel. % Cover
1) <u>Avesal</u>	<u>N/L</u>	<u>herb</u>	<u>58</u>	5) _____	_____	_____	_____
2) <u>Pha par</u>	<u>N/L</u>	<u>herb</u>	<u>29</u>	6) _____	_____	_____	_____
3) _____	_____	_____	_____	7) _____	_____	_____	_____
4) _____	_____	_____	_____	8) _____	_____	_____	_____

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

Comments: _____

HYDROLOGY

WETLAND HYDROLOGY? Yes No

Recorded Data: Yes No If yes, _____

Depth of surface water: _____ (in.) Depth to free water in pit: _____ (in.) Depth to saturated soil: >12 (in.)

Primary Indicators: Inundated Saturated in Upper 12 in. Water Marks Drift Lines Sediment Deposits Drainage Patterns in Wetland:

Secondary Indicators (2 or more required):

Oxidized Root Channels in Upper 12 in. Water-stained Leaves Local Soil Survey Data FAC-Neutral Test Other _____

Comments: _____

SOILS

HYDRIC SOILS? Yes No

Series/Phase: 160 San Joaquin - Arcents - Durachrepti complex, 0-1 1/2 slopes Drainage Class: well drained

Taxonomy [Subgroup]: thermic Abruptic Durixeralfs Confirm Map Type: Yes No

Histosol Histic Epipedon Sulfidic Odor Presumed Aquic Moisture Regime Reducing Conditions Gleyed/Low Chroma

Organic Content in Sandy Soils Organic Streaking in Sandy Soils Listed on Hydric Soils List Concretions Other _____

Inclusions [Series/Phase]: _____ On Hydric Soils List: Yes No

Depth (in.)	Horizon	Matrix Color	Mottle Color	Mottle (Abund/Contrast/Size)	Texture, Concretions, Structure
<u>0-12</u>	<u>A</u>	<u>10YR 3/2</u>	<u>-</u>	<u>-</u>	<u>Clay loam</u>
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____

Comments: _____

*** DECISION ***

WETLAND / WATERS DETERMINATION? Yes No

Rationale: all criteria have not been met

General comments: _____

Wetland Type: _____

HERBACEOUS COVER / DOMINANCE WORK SHEET

<u>Species Observed</u>	<u>Actual Cover</u>	<u>Relative Cover</u>	<u>COVER:</u>	
Pha par	40	29	Vegetation	100
Ave sat	80	58	Bare Ground	
Brassica sp.	5	4	Rocks	
Epi bra	1	41	Other	
Lol mul	10	7	TOTAL =	100%
Vic sp.	1	41		
TOTAL SUM (Σ) =	137	100%		

<u>Species (Descending Order)</u>	<u>Relative Cover</u>	<u>Cumulative Cover</u>	<u>Indicator Status</u>	<u>Dominants</u>
TOTAL SUM (Σ) =	100%			

Project/Site: South Sutter Specific Plan Date: 03 Oct 2005 Sample Point: 09
 Applicant/Owner: Lennar Communities, Inc. Field Investigator(s): K. L. Wae / P. G. 11
 County: Sutter State: CA Plant Community: Rice field
 Quad(s): Taylor Monument, CA Section/Township/Range: T. 10 North, R. 4 East, sec 8
 Do normal environmental conditions exist site? Yes No If no, explain: _____
 Atypical Situation? Yes No Explain: _____
 Is this a potential Problem Area? Yes No Explain: artificially flooded through "dry season"

VEGETATION

HYDROPHYTIC VEGETATION? Yes No

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

Percentage of dominant species that are OBL, FACW, and/or FAC [excluding FAC-]: 1/1 = 100 %
 Comments: _____

HYDROLOGY

WETLAND HYDROLOGY? Yes No

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

SOILS

HYDRIC SOILS? Yes No

Series/Phase: 114 Clear Lake clay, hardpan substratum, 6-29/25/20/20/20 Drainage Class: poorly drained
 Taxonomy [Subgroup]: thermic Typic Pelloxererts Confirm Map Type: Yes No
 Histosol Histic Epipedon Sulfidic Odor Presumed Aquic Moisture Regime Reducing Conditions Gleyed/Low Chroma
 Organic Content in Sandy Soils Organic Streaking in Sandy Soils Listed on Hydric Soils List Concretions Other _____
 Inclusions [Series/Phase]: Capay or Jackson (basin floor) On Hydric Soils List: Yes No

Depth (in.)	Horizon	Matrix Color	Mottle Color	Mottle (Abund/Contrast/Size)	Texture, Concretions, Structure
<u>0-12</u>	<u>A</u>	<u>2.5/10Y</u>	<u>-</u>	<u>-</u>	<u>Silty clay</u>
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____

 Comments: _____

*** DECISION ***

WETLAND / WATERS DETERMINATION? Yes No

Rationale: all criteria have been met but is supported by irrigation
 General comments: recently harvested rice field;
 Wetland Type: rice field

HERBACEOUS COVER / DOMINANCE WORK SHEET

<u>Species Observed</u>	<u>Actual Cover</u>	<u>Relative Cover</u>
Dry soil	75	100
TOTAL SUM (Σ) =	75	100%

<u>COVER:</u>	
Vegetation	100
Bare Ground	
Rocks	
Other	
TOTAL =	100%

<u>Species (Descending Order)</u>	<u>Relative Cover</u>	<u>Cumulative Cover</u>	<u>Indicator Status</u>	<u>Dominants</u>
TOTAL SUM (Σ) =	100%			

ECORP Consulting, Inc.
 ENVIRONMENTAL CONSULTANTS

ROUTINE WETLAND DELINEATION

Project/Site: South Sutter Specific Plan Date: 06/01/05 Sample Point: 10
 Applicant/Owner: Lennar Communities, Inc. Field Investigator(s): K. Kwau
 County: Sutter State: CA Plant Community: rice field
 Quad(s): Verona, CA Section/Township/Range: T. 11 North, R. 4 East, sec 21
 Do normal environmental conditions exist site? Yes No If no, explain: _____
 Atypical Situation? Yes No Explain: _____
 Is this a potential Problem Area? Yes No Explain: seasonally flooded

VEGETATION

HYDROPHYTIC VEGETATION? Yes No

Dominant Species	Ind. Status	Stratum	Rel. % Cover	Dominant Species	Ind. Status	Stratum	Rel. % Cover
1) <u>Oryza</u>	<u>Obl</u>	<u>Herb</u>	<u>79</u>	5) _____	_____	_____	_____
2) _____	_____	_____	_____	6) _____	_____	_____	_____
3) _____	_____	_____	_____	7) _____	_____	_____	_____
4) _____	_____	_____	_____	8) _____	_____	_____	_____

Percentage of dominant species that are OBL, FACW, and/or FAC [excluding FAC-]: 1/1 = 100 %
 Comments: _____

HYDROLOGY

WETLAND HYDROLOGY? Yes No

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

SOILS

HYDRIC SOILS? Yes No

Series/Phase: 137 Jacktone clay, 0 to 2% slope Drainage Class: poorly drained
 Taxonomy [Subgroup]: thermic Typic Pelloxererts Confirm Map Type: Yes No
 Histosol Histic Epipedon Sulfidic Odor Presumed Aquic Moisture Regime Reducing Conditions Gleyed/Low Chroma
 Organic Content in Sandy Soils Organic Streaking in Sandy Soils Listed on Hydric Soils List Concretions Other _____
 Inclusions [Series/Phase]: Capay and Clearlake (basin floor) On Hydric Soils List: Yes No

Depth (in.)	Horizon	Matrix Color	Mottle Color	Mottle (Abund/Contrast/Size)	Texture, Concretions, Structure
<u>0-12</u>	<u>A</u>	<u>10YR2/1</u>	<u>-</u>	<u>-</u>	<u>silty clay</u>
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____

 Comments: _____

*** DECISION ***

WETLAND / WATERS DETERMINATION? Yes No

Rationale: all criteria have been met but is supported by irrigation
 General comments: recently harvested rice field
 Wetland Type: rice field

HERBACEOUS COVER / DOMINANCE WORK SHEET

<u>Species Observed</u>	<u>Actual Cover</u>	<u>Relative Cover</u>
Ory sat	65	79
Lyp nig	5	6
Pol per	5	6
Sag lat	2	2
Ech crv	1	1
Typ lat	2	2
Lud pep	2	2
TOTAL SUM (Σ) =	<u>82</u>	100%

COVER:

Vegetation	<u>75</u>
Bare Ground	_____
Rocks	_____
Other	_____
TOTAL =	100%

<u>Species (Descending Order)</u>	<u>Relative Cover</u>	<u>Cumulative Cover</u>	<u>Indicator Status</u>	<u>Dominants</u>
TOTAL SUM (Σ) =	100%			

Project/Site: South Sutter Specific Plan Date: 06 Oct 05 Sample Point: 11
 Applicant/Owner: Lennar Communities, Inc. Field Investigator(s): K. Kwan
 County: Sutter State: CA Plant Community: Rice field
 Quad(s): Taylor Monument Section/Township/Range: T. 10 North, R. 4 East, Sec 3
 Do normal environmental conditions exist site? Yes No If no, explain: _____
 Atypical Situation? Yes No Explain: _____
 Is this a potential Problem Area? Yes No Explain: Seasonally flooded

VEGETATION

HYDROPHYTIC VEGETATION? Yes No

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

Percentage of dominant species that are OBL, FACW, and/or FAC [excluding FAC-]: 1/1 = 100 %

Comments: _____

HYDROLOGY

WETLAND HYDROLOGY? Yes No

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

SOILS

HYDRIC SOILS? Yes No

Series/Phase: 160 San Joaquin-Areata-Durochrepts complex, 0-1st 3671103 Drainage Class: well drained
 Taxonomy [Subgroup]: thermic Abruptic Durixeralfs Confirm Map Type: Yes No
 Histosol Histic Epipedon Sulfidic Odor Presumed Aquic Moisture Regime Reducing Conditions Gleyed/Low Chroma
 Organic Content in Sandy Soils Organic Streaking in Sandy Soils Listed on Hydric Soils List Concretions Other _____
 Inclusions [Series/Phase]: none On Hydric Soils List: Yes No

Depth (in.)	Horizon	Matrix Color	Mottle Color	Mottle (Abund/Contrast/Size)	Texture, Concretions, Structure
<u>0-10</u>	<u>A</u>	<u>10YR 2/1</u>	<u>—</u>	<u>—</u>	<u>to silty clay</u>
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____

 Comments: _____

*** DECISION ***

WETLAND / WATERS DETERMINATION? Yes No

Rationale: all criteria have been met but supported by irrigation
 General comments: artificially flooded
 Wetland Type: rice field

HERBACEOUS COVER / DOMINANCE WORK SHEET

<u>Species Observed</u>	<u>Actual Cover</u>	<u>Relative Cover</u>	
Oxy sat	75	100	
TOTAL SUM (Σ) =		75	100%

<u>COVER:</u>	
Vegetation	75
Bare Ground	
Rocks	
Other	
TOTAL =	100%

<u>Species (Descending Order)</u>	<u>Relative Cover</u>	<u>Cumulative Cover</u>	<u>Indicator Status</u>	<u>Dominants</u>
TOTAL SUM (Σ) =		100%		

Project/Site: South Sutter Specific Plan Date: 06 Oct 2005 Sample Point: 12
 Applicant/Owner: Lennar Communities, Inc. Field Investigator(s): K. Kwan
 County: Sutter State: CA Plant Community: rice field
 Quad(s): Taylor Monument, CA Section/Township/Range: T. 10 North, R. 4 East, sec 3
 Do normal environmental conditions exist site? Yes No If no, explain: _____
 Atypical Situation? Yes No Explain: _____
 Is this a potential Problem Area? Yes No Explain: seasonally flooded

VEGETATION

HYDROPHYTIC VEGETATION? Yes No

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

Percentage of dominant species that are OBL, FACW, and/or FAC [excluding FAC-]: 1/1 = 100 %
 Comments: _____

HYDROLOGY

WETLAND HYDROLOGY? Yes No

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

SOILS

HYDRIC SOILS? Yes No

Series/Phase: 137 Jackson clay, 0 to 2 percent slopes Drainage Class: poorly drained
 Taxonomy [Subgroup]: thermic Typic Pelloxererts Confirm Map Type: Yes No
 Histosol Histic Epipedon Sulfidic Odor Presumed Aquic Moisture Regime Reducing Conditions Gleyed/Low Chroma
 Organic Content in Sandy Soils Organic Streaking in Sandy Soils Listed on Hydric Soils List Concretions Other _____
 Inclusions [Series/Phase]: Lapay and Clear Lake (basin floor) On Hydric Soils List: Yes No

Depth (in.)	Horizon	Matrix Color	Mottle Color	Mottle (Abund/Contrast/Size)	Texture, Concretions, Structure
<u>0-10</u>	<u>A</u>	<u>10YR 2/1</u>	<u>-</u>	<u>-</u>	<u>silty clay</u>
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____

 Comments: _____

*** DECISION ***

WETLAND / WATERS DETERMINATION? Yes No

Rationale: all criteria have been met but is supported by irrigation
 General comments: artificially flooded
 Wetland Type: rice field

HERBACEOUS COVER / DOMINANCE WORK SHEET

<u>Species Observed</u>	<u>Actual Cover</u>	<u>Relative Cover</u>	
Dry sat	75	100	
TOTAL SUM (Σ) =	<u>75</u>	100%	

COVER:

Vegetation	<u>75</u>
Bare Ground	_____
Rocks	_____
Other	_____
TOTAL =	100%

<u>Species (Descending Order)</u>	<u>Relative Cover</u>	<u>Cumulative Cover</u>	<u>Indicator Status</u>	<u>Dominants</u>
TOTAL SUM (Σ) =	100%			