

DATA FORM: ROUTINE WETLAND DETERMINATION (1987 COE Wetlands Delineation Manual)

Project/Site: Lagoon Valley Applicant: Triad Homes Investigator(s): S. Lohmann, C. Bouril LSA Associates, Inc., 157 Park Place, Point Richmond, CA 94801 Have vegetation, soils, or hydrology been disturbed? <input checked="" type="radio"/> Yes <input type="radio"/> No Is the area a potential Problem Area? <input checked="" type="radio"/> Yes <input type="radio"/> No	Sample Site No.: <u>24</u> Date: <u>SAUG 17</u> , 2003 Location: Vacaville County: Solano State: CA
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VEGETATION (Note those species observed to have morphological adaptations to wetlands with an asterisk "\*\*")

Dominant Plant Species	% Cover	Indicator	Associated Plant Species	% Cover	Indicator
1. <del>TRENTHELIUM CAPUT-MEDUSAE</del>	47	UPL	1. _____	_____	_____
2. <u>LOLIUM MULTIFLORUM</u>	20	FAC	2. _____	_____	_____
3. <u>AVENA SP.</u>	8	UPL	3. _____	_____	_____
4. <u>ROMULUS POLCHER</u>	10	FACT	4. _____	_____	_____
5. <u>VULPIA SP.</u>	10	UPL	5. _____	_____	_____
6. <u>BROMUS DIANDROS</u>	5	UPL	6. _____	_____	_____
7. _____	_____	_____	7. _____	_____	_____

50 % dominant species that are OBL, FACW or FAC (except FAC-). 0 % bare ground

Remarks: WAP EDGE @ WEBSA + AVENA. SOME ROMULUS EXTENDS BEYOND

HYDROLOGY

Field observations: Depth of surface water: _____ (in.) Depth to free water in pit: _____ (in.) Depth to saturated soil: _____ (in.)  Approximate slope: <u>20%</u> Within 100-year floodplain? Yes <input type="radio"/> No <input checked="" type="radio"/> Below OHWM or High Tide Line? Yes <input type="radio"/> No <input checked="" type="radio"/>	Wetland hydrology indicators: <u>NONE</u>  <input type="checkbox"/> Inundated <input type="checkbox"/> Water marks <input type="checkbox"/> Sediment deposits <input type="checkbox"/> Suppressed vegetation <input type="checkbox"/> Matting (algal or other) <input type="checkbox"/> Other (explain in remarks)  <input type="checkbox"/> Saturated in upper 12" <input type="checkbox"/> Organic duff layer <input type="checkbox"/> Drainage patterns in wetlands <input type="checkbox"/> Oxidized root channels
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Physiographic position of site/Remarks: NO HOOF PRINTS

SOILS

Map unit name: _____	Soil series permeability (from NRCS survey): _____
Taxonomy (subgroup): _____	Field observations confirm mapped soil series? Yes <input type="checkbox"/> No <input type="checkbox"/>

Depth (inches)	Horizon	Matrix Color (moist)	Redoximorphic Colors (moist)	Abundance/Contrast	Additional observations (texture, concretions, porosity, etc.)
0-2		10YR3/2	5YR4/6	< 2% P/BZOS	
2-6		10YR4/3			

Hydric Soil Indicators:	Probable aquic moisture regime
<input type="checkbox"/> Abundant rhizospheres <u>NOT</u>	<input type="checkbox"/> Concretions
<input type="checkbox"/> Reducing conditions	<input type="checkbox"/> Listed on county hydric soils list
<input type="checkbox"/> High organic content in surface layer	<input type="checkbox"/> Other (explain in remarks)
<input type="checkbox"/> Depleted mottles or matrix	
<input type="checkbox"/> Gleying	
<input type="checkbox"/> Non-mollic, low-chroma colors	
<input type="checkbox"/> Iron or Mn mottles	
<input type="checkbox"/> Sulfidic odor	

Remarks: \_\_\_\_\_

WETLAND DETERMINATION

Hydrophytic vegetation present Yes <input type="radio"/> No <input checked="" type="radio"/> Hydric soils present Yes <input type="radio"/> No <input checked="" type="radio"/> Wetland hydrology present Yes <input type="radio"/> No <input checked="" type="radio"/>	Is this sampling point within a wetland? Yes <input type="radio"/> No <input checked="" type="radio"/>
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Remarks: \_\_\_\_\_



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**VEGETATION** (Note those species observed to have morphological adaptations to wetlands with an asterisk "\*\*")

Dominant Plant Species	% Cover	Indicator	Associated Plant Species	% Cover	Indicator
1. <u>COLLUM MULTIFLORUM</u>	<u>35</u>	<u>FAC</u>	1. _____	_____	_____
2. <u>HEPACOM WERINUM</u>	<u>35</u>	<u>FAC</u>	2. _____	_____	_____
3. <u>RIVERX PURCHER</u>	<u>30</u>	<u>FAC*</u>	3. _____	_____	_____
4. _____	_____	_____	4. _____	_____	_____
5. _____	_____	_____	5. _____	_____	_____
6. _____	_____	_____	6. _____	_____	_____
7. _____	_____	_____	7. _____	_____	_____

100 % dominant species that are OBL, FACW or FAC (except FAC-). 0 % bare ground

Remarks:

**HYDROLOGY**

Field observations: Depth of surface water: <u>—</u> (in.) Depth to free water in pit: <u>—</u> (in.) Depth to saturated soil: <u>—</u> (in.) Approximate slope: <u>12%</u> Within 100-year floodplain? Yes <input checked="" type="radio"/> No <input type="radio"/> Below OHWM or High Tide Line? Yes <input checked="" type="radio"/> No <input type="radio"/>	Wetland hydrology indicators: <input type="checkbox"/> Inundated <input type="checkbox"/> Water marks <input type="checkbox"/> Sediment deposits <input type="checkbox"/> Suppressed vegetation <input type="checkbox"/> Matting (algal or other) <input checked="" type="checkbox"/> Other (explain in remarks) <u>HOOFPRINTS</u> <input type="checkbox"/> Saturated in upper 12" <input type="checkbox"/> Organic duff layer <input type="checkbox"/> Drainage patterns in wetlands <input checked="" type="checkbox"/> Oxidized root channels
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Physiographic position of site/Remarks: IN CENTER OF SWALE CONTAINING R. PURCHER

**SOILS**

Map unit name: _____	Soil series permeability (from NRCS survey): _____
Taxonomy (subgroup): _____	Field observations confirm mapped soil series? Yes <input type="checkbox"/> No <input type="checkbox"/>

Depth (inches)	Horizon	Matrix Color (moist)	Redoximorphic Colors (moist)	Abundance/Contrast	Additional observations (texture, concretions, porosity, etc.)
<u>0-6</u>		<u>10YR5/3</u>	<u>STR4/6</u>	<u>7% RHZOS</u>	<u>SIL</u>

Hydric Soil Indicators:		
<input checked="" type="checkbox"/> Abundant rhizospheres	<input type="checkbox"/> Gleying	<input type="checkbox"/> Probable aquic moisture regime
<input type="checkbox"/> Reducing conditions	<input type="checkbox"/> Non-mollic, low-chroma colors	<input type="checkbox"/> Concretions
<input type="checkbox"/> High organic content in surface layer	<input type="checkbox"/> Iron or Mn mottles	<input type="checkbox"/> Listed on county hydric soils list
<input checked="" type="checkbox"/> Depleted mottles or matrix	<input type="checkbox"/> Sulfidic odor	<input type="checkbox"/> Other (explain in remarks)

Remarks: MATRIX COLOR APPEARS DEPLETED OF ORGANIC MATTER

**WETLAND DETERMINATION**

Hydrophytic vegetation present <input checked="" type="radio"/> Yes <input type="radio"/> No	Is this sampling point within a wetland? <input checked="" type="radio"/> Yes <input type="radio"/> No
Hydric soils present <input checked="" type="radio"/> Yes <input type="radio"/> No	
Wetland hydrology present <input checked="" type="radio"/> Yes <input type="radio"/> No	

Remarks:

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Project/Site: Lagoon Valley Applicant: Triad Homes Investigator(s): S. Lohmann, C. Bouril LSA Associates, Inc., 157 Park Place, Point Richmond, CA 94801 Have vegetation, soils, or hydrology been disturbed? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Is the area a potential Problem Area? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Sample Site No.: 27 Date: August 5, 2003 Location: Vacaville County: Solano State: CA
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**VEGETATION** (Note those species observed to have morphological adaptations to wetlands with an asterisk "\*\*")

Dominant Plant Species	% Cover	Indicator	Associated Plant Species	% Cover	Indicator
1. <u>JUNCUS MEXICANUS</u>	<u>20</u>	<u>FACW</u>	1. _____	_____	_____
2. <u>VULPIA SP.</u>	<u>60</u>	<u>(FAC?)</u>	2. _____	_____	_____
3. <u>JUNCUS XIPHILOIDES</u>	<u>20</u>	<u>FACW</u>	3. _____	_____	_____
4. _____	_____	_____	4. _____	_____	_____
5. _____	_____	_____	5. _____	_____	_____
6. _____	_____	_____	6. _____	_____	_____
7. _____	_____	_____	7. _____	_____	_____

100 % dominant species that are OBL, FACW or FAC (except FAC-). 0 % bare ground

Remarks:

**HYDROLOGY**

Field observations: Depth of surface water: <u>NONE</u> (in.) Depth to free water in pit: <u>"</u> (in.) Depth to saturated soil: <u>"</u> (in.) Approximate slope: <u>~ 10%</u> Within 100-year floodplain? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Below OHWM or High Tide Line? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Wetland hydrology indicators: <input type="checkbox"/> Inundated <input type="checkbox"/> Water marks <input type="checkbox"/> Sediment deposits <input type="checkbox"/> Suppressed vegetation <input type="checkbox"/> Matting (algal or other) <input type="checkbox"/> Other (explain in remarks) <input type="checkbox"/> Saturated in upper 12" <input type="checkbox"/> Organic duff layer <input type="checkbox"/> Drainage patterns in wetlands <input checked="" type="checkbox"/> Oxidized root channels
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Physiographic position of site/Remarks: LOCATED IN JUNCUS PATCH IN VALLEY BOTTOM. NO STREAM CHANNEL. HOOPPOINTS.

**SOILS**

Map unit name: _____	Soil series permeability (from NRCS survey): _____	Field observations confirm mapped soil series? Yes <input type="checkbox"/> No <input type="checkbox"/>			
Taxonomy (subgroup): _____					
Depth (inches)	Horizon	Matrix Color (moist)	Redoximorphic Colors (moist)	Abundance/Contrast	Additional observations (texture, concretions, porosity, etc.)
_____	_____	<u>2.5Y 5/2</u>	<u>7.5YR 4/4 4/6</u>	<u>30%+</u>	<u>MULTICOLOR/RH/DEPLETED MATRIX</u>
_____	_____	_____	<u>5YR 4/6 (RH)</u>	_____	_____
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____
Hydric Soil Indicators:					
<input type="checkbox"/>	Abundant rhizospheres	<input type="checkbox"/>	Gleying	<input type="checkbox"/>	Probable aquic moisture regime
<input type="checkbox"/>	Reducing conditions	<input type="checkbox"/>	Non-mollic, low-chroma colors	<input type="checkbox"/>	Concretions
<input type="checkbox"/>	High organic content in surface layer	<input checked="" type="checkbox"/>	Iron or Mn mottles	<input type="checkbox"/>	Listed on county hydric soils list
<input checked="" type="checkbox"/>	Depleted mottles or matrix	<input type="checkbox"/>	Sulfidic odor	<input type="checkbox"/>	Other (explain in remarks)

Remarks:

**WETLAND DETERMINATION**

Hydrophytic vegetation present <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Hydric soils present <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Wetland hydrology present <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Is this sampling point within a wetland? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Remarks:	

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**VEGETATION** (Note those species observed to have morphological adaptations to wetlands with an asterisk "\*\*")

Dominant Plant Species	% Cover	Indicator	Associated Plant Species	% Cover	Indicator
1. <u>LOLIUM MULTIFLORUM</u>	<u>70</u>	<u>FAC</u>	1. _____	_____	_____
2. <u>RUMEX POLCHER</u>	<u>20</u>	<u>FAC*</u>	2. _____	_____	_____
3. <u>VULPIA SP.</u>	<u>10</u>	<u>(FAC?)</u>	3. _____	_____	_____
4. _____	_____	_____	4. _____	_____	_____
5. _____	_____	_____	5. _____	_____	_____
6. _____	_____	_____	6. _____	_____	_____
7. _____	_____	_____	7. _____	_____	_____

100 % dominant species that are OBL, FACW or FAC (except FAC-).  0 % bare ground

Remarks:

**HYDROLOGY**

Field observations: Depth of surface water: <u>—</u> (in.) Depth to free water in pit: <u>—</u> (in.) Depth to saturated soil: <u>—</u> (in.)  Approximate slope: <u>10%</u> Within 100-year floodplain? Yes <input checked="" type="radio"/> No <input type="radio"/> Below OHWM or High Tide Line? Yes <input checked="" type="radio"/> No <input type="radio"/>	Wetland hydrology indicators: <input type="checkbox"/> Inundated <input type="checkbox"/> Water marks <input type="checkbox"/> Sediment deposits <input type="checkbox"/> Suppressed vegetation <input type="checkbox"/> Matting (algal or other) <input checked="" type="checkbox"/> Other (explain in remarks) <u>HOOFPRINTS</u>  <input type="checkbox"/> Saturated in upper 12" <input type="checkbox"/> Organic duff layer <input type="checkbox"/> Drainage patterns in wetlands <input checked="" type="checkbox"/> Oxidized root channels
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Physiographic position of site/Remarks:  
SEDIMENT CONE IN DRAINAGE SWALE ON HILLSIDE, PROBABLE GROUND WATER/SALWATER INFLUENCE

**SOILS**

Map unit name: _____ Taxonomy (subgroup): _____	Soil series permeability (from NRCS survey): _____ Field observations confirm mapped soil series? Yes <input type="checkbox"/> No <input type="checkbox"/>
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Depth (inches)	Horizon	Matrix Color (moist)	Redoximorphic Colors (moist)	Abundance/Contrast	Additional observations (texture, concretions, porosity, etc.)
<u>0-2</u>	_____	<u>10YR 4/2</u>	<u>5YR 4/6</u>	<u>~2%</u>	<u>R<sub>2</sub>O<sub>2</sub>S</u>
<u>2-8</u>	_____	<u>10YR 4/2</u>	<u>5YR 4/6</u>	<u>25%</u>	<u>R<sub>2</sub>O<sub>2</sub>S (L, CL) SPRING TO P.F.</u>

Hydric Soil Indicators: <input checked="" type="checkbox"/> Abundant rhizospheres <input type="checkbox"/> Reducing conditions <input type="checkbox"/> High organic content in surface layer <input type="checkbox"/> Depleted mottles or matrix	<input type="checkbox"/> Gleying <input type="checkbox"/> Non-mollic, low-chroma colors <input checked="" type="checkbox"/> Iron or Mn mottles <input type="checkbox"/> Sulfidic odor	<input type="checkbox"/> Probable aquic moisture regime <input type="checkbox"/> Concretions <input type="checkbox"/> Listed on county hydric soils list <input type="checkbox"/> Other (explain in remarks)
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Remarks:

**WETLAND DETERMINATION**

Hydrophytic vegetation present <input checked="" type="radio"/> Yes <input type="radio"/> No Hydric soils present <input checked="" type="radio"/> Yes <input type="radio"/> No Wetland hydrology present <input checked="" type="radio"/> Yes <input type="radio"/> No	Is this sampling point within a wetland? <input checked="" type="radio"/> Yes <input type="radio"/> No
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Remarks:

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Project/Site: Lagoon Valley Applicant: Triad Homes Investigator(s): S. Lohmann, C. Bouril LSA Associates, Inc., 157 Park Place, Point Richmond, CA 94801 Have vegetation, soils, or hydrology been disturbed? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Is the area a potential Problem Area? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Sample Site No.: 29 Date: August 5, 2003 Location: Vacaville County: Solano State: CA
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VEGETATION (Note those species observed to have morphological adaptations to wetlands with an asterisk "\*\*")

Dominant Plant Species	% Cover	Indicator	Associated Plant Species	% Cover	Indicator
1. <i>Lolium multiflorum</i>	85	FAC	1. <i>Rumex pulchra</i>	15	FAC +
2. _____	_____	_____	2. _____	_____	_____
3. _____	_____	_____	3. _____	_____	_____
4. _____	_____	_____	4. _____	_____	_____
5. _____	_____	_____	5. _____	_____	_____
6. _____	_____	_____	6. _____	_____	_____
7. _____	_____	_____	7. _____	_____	_____

100 % dominant species that are OBL, FACW or FAC (except FAC-). 0 % bare ground

Remarks:

HYDROLOGY

Field observations: Depth of surface water: NONE (in.) Depth to free water in pit: " (in.) Depth to saturated soil: " (in.) Approximate slope: 5-10% Within 100-year floodplain? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Below OHWM or High Tide Line? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Wetland hydrology indicators: <input type="checkbox"/> Inundated <input type="checkbox"/> Water marks <input type="checkbox"/> Sediment deposits <input type="checkbox"/> Suppressed vegetation <input type="checkbox"/> Matting (algal or other) <input type="checkbox"/> Other (explain in remarks) <input type="checkbox"/> Saturated in upper 12" <input type="checkbox"/> Organic duff layer <input type="checkbox"/> Drainage patterns in wetlands <input checked="" type="checkbox"/> Oxidized root channels
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Physiographic position of site/Remarks: LOCATED AT FOOT OF STOPPING VALLEY. POSSIBLE FOOT SLOPE SEEP. NO SURFACE EVIDENCE OF WATER.

SOILS

Map unit name: _____ Taxonomy (subgroup): _____	Soil series permeability (from NRCS survey): _____ Field observations confirm mapped soil series? Yes No
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Depth (inches)	Horizon	Matrix Color (moist)	Redoximorphic Colors (moist)	Abundance/Contrast	Additional observations (texture, concretions, porosity, etc.)
0-8+		10YR 4/3	10YR 4/6	10%	Rb

Hydric Soil Indicators: <input type="checkbox"/> Abundant rhizospheres <input type="checkbox"/> Reducing conditions <input type="checkbox"/> High organic content in surface layer <input type="checkbox"/> Depleted mottles or matrix	<input type="checkbox"/> Gleying <input type="checkbox"/> Non-mollic, low-chroma colors <input type="checkbox"/> Iron or Mn mottles <input type="checkbox"/> Sulfidic odor	<input type="checkbox"/> Probable aquic moisture regime <input type="checkbox"/> Concretions <input type="checkbox"/> Listed on county hydric soils list <input type="checkbox"/> Other (explain in remarks)
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Remarks: MOTTLING AND RHIZOSPHERES ARE WEATHERED. NO EVIDENCE FOR FREQUENT SATURATION, THOUGH IT IS APPARENT THAT SOME REDUCTION MUST OCCURRED IN THE PAST.

WETLAND DETERMINATION

Hydrophytic vegetation present <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No MARGINAL Hydric soils present <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No MARGINAL Wetland hydrology present <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Is this sampling point within a wetland? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
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Remarks: NO CONVINCING EVIDENCE OF WETLAND CONDITIONS.

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**VEGETATION** (Note those species observed to have morphological adaptations to wetlands with an asterisk "\*\*")

Dominant Plant Species	% Cover	Indicator	Associated Plant Species	% Cover	Indicator
1. <u>LOTIUM MULTIFLORUM</u>	<u>65</u>	<u>FAC</u>	1. <u>RUMEX PULCHER</u>	<u>10</u>	<u>FAC+</u>
2. <u>VULPIA CREMULUS/MYURUS</u>	<u>25</u>	<u>FACU(?)</u>	2. _____	_____	_____
3. _____	_____	_____	3. _____	_____	_____
4. _____	_____	_____	4. _____	_____	_____
5. _____	_____	_____	5. _____	_____	_____
6. _____	_____	_____	6. _____	_____	_____
7. _____	_____	_____	7. _____	_____	_____

50 % dominant species that are OBL, FACW or FAC (except FAC-). \_\_\_\_\_ % bare ground

Remarks:

**HYDROLOGY**

Field observations: Depth of surface water: <u>NONE</u> (in.) Depth to free water in pit: <u>11</u> (in.) Depth to saturated soil: <u>11</u> (in.)  Approximate slope: <u>5%</u> Within 100-year floodplain? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Below OHWM or High Tide Line? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Wetland hydrology indicators: <input type="checkbox"/> Inundated <input type="checkbox"/> Water marks <input type="checkbox"/> Sediment deposits <input type="checkbox"/> Suppressed vegetation <input type="checkbox"/> Matting (algal or other) <input type="checkbox"/> Other (explain in remarks)  <input type="checkbox"/> Saturated in upper 12" <input type="checkbox"/> Organic duff layer <input type="checkbox"/> Drainage patterns in wetlands <input checked="" type="checkbox"/> Oxidized root channels
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Physiographic position of site/Remarks: LOCATED AT THE FOOT OF A SLOPING VALLEY NOT FAR FROM A JUNGLES PATCH. LOCATED IN A SEASONAL SEEP ZONE.

**SOILS**

Map unit name: _____	Soil series permeability (from NRCS survey): _____
Taxonomy (subgroup): _____	Field observations confirm mapped soil series? Yes No

Depth (inches)	Horizon	Matrix Color (moist)	Redoximorphic Colors (moist)	Abundance/Contrast	Additional observations (texture, concretions, porosity, etc.)
<u>0-6</u>	_____	<u>10YR 3/2</u>	<u>7.5YR 4/6</u>	<u>10-15%</u>	_____
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____

Hydric Soil Indicators:	Gleying	Probable aquic moisture regime
<input type="checkbox"/> Abundant rhizospheres	<input type="checkbox"/> Non-mollic, low-chroma colors	<input type="checkbox"/> Concretions
<input type="checkbox"/> Reducing conditions	<input checked="" type="checkbox"/> Iron or Mn mottles	<input type="checkbox"/> Listed on county hydric soils list
<input type="checkbox"/> High organic content in surface layer	<input type="checkbox"/> Sulfidic odor	<input type="checkbox"/> Other (explain in remarks)
<input type="checkbox"/> Depleted mottles or matrix		

Remarks:

**WETLAND DETERMINATION**

Hydrophytic vegetation present Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Hydric soils present Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Wetland hydrology present Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Is this sampling point within a wetland? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
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Remarks: SOILS PROVIDE CONVINCING EVIDENCE OF REDUCTION, DESPITE MARGINAL PLANT COVER.

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**VEGETATION** (Note those species observed to have morphological adaptations to wetlands with an asterisk "\*\*")

Dominant Plant Species	% Cover	Indicator	Associated Plant Species	% Cover	Indicator
1. <u>Lolium MULTIFLORUM</u>	60	FAC	1. <u>RUMEX PULCHER</u>	9	FAC+
2. <u>VULPIA MYURUS/Bromoides</u>	30	FACU(?)	2. <u>TARENITHALUM CAPUT-MEDUSAE</u>	1	UPL
3. _____	_____	_____	3. _____	_____	_____
4. _____	_____	_____	4. _____	_____	_____
5. _____	_____	_____	5. _____	_____	_____
6. _____	_____	_____	6. _____	_____	_____
7. _____	_____	_____	7. _____	_____	_____

50 % dominant species that are OBL, FACW or FAC (except FAC-). 0 % bare ground

Remarks:

**HYDROLOGY**

Field observations: Depth of surface water: <u>NONE</u> (in.) Depth to free water in pit: <u>1"</u> (in.) Depth to saturated soil: <u>1"</u> (in.) Approximate slope: <u>10%</u> Within 100-year floodplain? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Below OHWM or High Tide Line? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Wetland hydrology indicators: <input type="checkbox"/> Inundated <input type="checkbox"/> Water marks <input type="checkbox"/> Sediment deposits <input type="checkbox"/> Suppressed vegetation <input type="checkbox"/> Matting (algal or other) <input type="checkbox"/> Other (explain in remarks) <input type="checkbox"/> Saturated in upper 12" <input type="checkbox"/> Organic duff layer <input type="checkbox"/> Drainage patterns in wetlands <input checked="" type="checkbox"/> Oxidized root channels <u>old</u>
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Physiographic position of site/Remarks: LOCATED AT TOE OF SLOPE AND ADJACENT TO STREAM. NO SURFACE EVIDENCE OF WETLAND HYDROLOGY.

**SOILS**

Map unit name: _____	Soil series permeability (from NRCS survey): _____
Taxonomy (subgroup): _____	Field observations confirm mapped soil series? Yes No

Depth (inches)	Horizon	Matrix Color (moist)	Redoximorphic Colors (moist)	Abundance/Contrast	Additional observations (texture, concretions, porosity, etc.)
0-6		10YR 3/2	10YR 3/4	3-5%	

Hydric Soil Indicators:		
<input type="checkbox"/> Abundant rhizospheres	<input type="checkbox"/> Gleying	<input type="checkbox"/> Probable aquic moisture regime
<input type="checkbox"/> Reducing conditions	<input type="checkbox"/> Non-mollic, low-chroma colors	<input type="checkbox"/> Concretions
<input type="checkbox"/> High organic content in surface layer	<input type="checkbox"/> Iron or Mn mottles	<input type="checkbox"/> Listed on county hydric soils list
<input type="checkbox"/> Depleted mottles or matrix	<input type="checkbox"/> Sulfidic odor	<input type="checkbox"/> Other (explain in remarks)

Remarks: MOTTLING/RL OF INSUFFICIENT FREQUENCY TO INDICATE FREQUENT SOIL REDUCTION

**WETLAND 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"/>	Is this sampling point within a wetland? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
Remarks:	

DATA FORM: ROUTINE WETLAND DETERMINATION (1987 COE Wetlands Delineation Manual)

Project/Site: Lagoon Valley Applicant: Triad Homes Investigator(s): S. Lohmann, C. Bouril LSA Associates, Inc., 157 Park Place, Point Richmond, CA 94801 Have vegetation, soils, or hydrology been disturbed? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Is the area a potential Problem Area? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Sample Site No.: <u>32</u> Date: <u>Sat, July 12, 2003</u> Location: Vacaville County: Solano State: CA
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VEGETATION (Note those species observed to have morphological adaptations to wetlands with an asterisk "\*\*")

Dominant Plant Species	% Cover	Indicator	Associated Plant Species	% Cover	Indicator
1. <u>LOYUM MULTIFLORUM</u>	<u>30</u>	<u>FAC</u>	1. _____	_____	_____
2. <u>HORDEUM MARINUM</u>	<u>30</u>	<u>FAC</u>	2. _____	_____	_____
3. <u>RUMEX ACETOSA</u>	<u>25</u>	<u>FAC</u>	3. _____	_____	_____
4. <u>GLYCERIA DEUNATA</u>	<u>5</u>	<u>OBL</u>	4. _____	_____	_____
5. <u>PLUCOBOTRYIS STIPITATUS</u>	<u>10</u>	<u>OBL</u>	5. _____	_____	_____
6. _____	_____	_____	6. _____	_____	_____
7. _____	_____	_____	7. _____	_____	_____

100 % dominant species that are OBL, FACW or FAC (except FAC-).  0 % bare ground

Remarks:

HYDROLOGY

Field observations: Depth of surface water: <u>5</u> (in.) Depth to free water in pit: <u>—</u> (in.) Depth to saturated soil: <u>—</u> (in.) Approximate slope: <u>&lt; 2%</u> Within 100-year floodplain? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Below OHWM or High Tide Line? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Wetland hydrology indicators: <input type="checkbox"/> Inundated <input type="checkbox"/> Water marks <input type="checkbox"/> Sediment deposits <input type="checkbox"/> Suppressed vegetation <input type="checkbox"/> Matting (algal or other) <input checked="" type="checkbox"/> Other (explain in remarks) <u>HOOF PRINTS</u> <input type="checkbox"/> Saturated in upper 12" <input type="checkbox"/> Organic duff layer <input type="checkbox"/> Drainage patterns in wetlands <input checked="" type="checkbox"/> Oxidized root channels
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Physiographic position of site/Remarks: IN FLAT. INDISTINCT STREAM COURSE, AREA DISTURBED BY CATTLE

SOILS

Map unit name: _____ Taxonomy (subgroup): _____	Soil series permeability (from NRCS survey): _____ Field observations confirm mapped soil series? <input type="checkbox"/> Yes <input type="checkbox"/> No				
Depth (inches) <u>0-2</u> <u>2-5</u>	Horizon _____ _____	Matrix Color (moist) <u>LOYR9Z</u> "	Redoximorphic Colors (moist) <u>SYR4H6</u> <u>BLCKC</u> "	Abundance/Contrast <u>4% RHIZOS</u> <u>3%</u> "	Additional observations (texture, concretions, porosity, etc.) <u>@ 2"</u> <u>ORG. PRESSED IN BY CATTLE</u>
Hydric Soil Indicators: <input checked="" type="checkbox"/> Abundant rhizospheres <input type="checkbox"/> Reducing conditions <input type="checkbox"/> High organic content in surface layer <input type="checkbox"/> Depleted mottles or matrix <input type="checkbox"/> Gleying <input type="checkbox"/> Non-mollic, low-chroma colors <input type="checkbox"/> Iron or Mn mottles <input type="checkbox"/> Sulfidic odor <input type="checkbox"/> Probable aquic moisture regime <input type="checkbox"/> Concretions <input type="checkbox"/> Listed on county hydric soils list <input type="checkbox"/> Other (explain in remarks)					
Remarks:					

WETLAND DETERMINATION

Hydrophytic vegetation present <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Hydric soils present <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Wetland hydrology present <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Is this sampling point within a wetland? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Remarks:	

DATA FORM: ROUTINE WETLAND DETERMINATION (1987 COE Wetlands Delineation Manual)

Project/Site: Lagoon Valley Applicant: Triad Homes Investigator(s): S. Lohmann, C. Bouril LSA Associates, Inc., 157 Park Place, Point Richmond, CA 94801 Have vegetation, soils, or hydrology been disturbed? <input checked="" type="radio"/> Yes <input type="radio"/> No Is the area a potential Problem Area? <input type="radio"/> Yes <input checked="" type="radio"/> No	Sample Site No.: <u>33</u> Date: <u>SAUJ</u> July 17, 2003 Location: Vacaville County: Solano State: CA
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VEGETATION (Note those species observed to have morphological adaptations to wetlands with an asterisk "\*\*")

Dominant Plant Species	% Cover	Indicator	Associated Plant Species	% Cover	Indicator
1. <u>PST</u>	<u>25</u>	<u>OPL</u>	1. _____	_____	_____
2. <u>LOLUM MULTIFLORUM</u>	<u>30</u>	<u>FAC</u>	2. _____	_____	_____
3. <u>FESTUCA S.P.</u>	<u>15</u>	_____	3. _____	_____	_____
4. <u>BROMUS HORDEACEUS</u>	<u>20</u>	<u>FACU</u>	4. _____	_____	_____
5. <u>ROMEX PULCHER</u>	<u>10</u>	<u>FACT</u>	5. _____	_____	_____
6. _____	_____	_____	6. _____	_____	_____
7. _____	_____	_____	7. _____	_____	_____

33 % dominant species that are OBL, FACW or FAC (except FAC-). 0 % bare ground

Remarks:

HYDROLOGY

Field observations: Depth of surface water: _____ (in.) Depth to free water in pit: _____ (in.) Depth to saturated soil: _____ (in.)  Approximate slope: <u>6%</u> Within 100-year floodplain? Yes <input checked="" type="radio"/> No <input type="radio"/> Below OHWM or High Tide Line? Yes <input checked="" type="radio"/> No <input type="radio"/>	Wetland hydrology indicators: <u>NONE</u>  <input type="checkbox"/> Inundated <input type="checkbox"/> Water marks <input type="checkbox"/> Sediment deposits <input type="checkbox"/> Suppressed vegetation <input type="checkbox"/> Matting (algal or other) <input type="checkbox"/> Other (explain in remarks)  <input type="checkbox"/> Saturated in upper 12" <input type="checkbox"/> Organic duff layer <input type="checkbox"/> Drainage patterns in wetlands <input type="checkbox"/> Oxidized root channels
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Physiographic position of site/Remarks: ~20' WEST OF #32

SOILS

Map unit name: _____	Soil series permeability (from NRCS survey): _____	Field observations confirm mapped soil series? Yes <input type="checkbox"/> No <input type="checkbox"/>			
Taxonomy (subgroup): _____					
Depth (inches)	Horizon	Matrix Color (moist)	Redoximorphic Colors (moist)	Abundance/Contrast	Additional observations (texture, concretions, porosity, etc.)
<u>0-2</u>	_____	<u>10YR3/1</u>	_____	_____	_____
<u>2-6</u>	_____	<u>10YR3/2</u>	<u>5YR4/6</u>	<u>&lt;2% RHIZOS</u>	_____
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____

Hydric Soil Indicators:

<input type="checkbox"/> Abundant rhizospheres <u>NOT</u>	<input type="checkbox"/> Gleying	<input type="checkbox"/> Probable aquic moisture regime
<input type="checkbox"/> Reducing conditions	<input type="checkbox"/> Non-mollic, low-chroma colors	<input type="checkbox"/> Concretions
<input type="checkbox"/> High organic content in surface layer	<input type="checkbox"/> Iron or Mn mottles	<input type="checkbox"/> Listed on county hydric soils list
<input type="checkbox"/> Depleted mottles or matrix	<input type="checkbox"/> Sulfidic odor	<input type="checkbox"/> Other (explain in remarks)

Remarks:

WETLAND DETERMINATION

Hydrophytic vegetation present Yes <input type="radio"/> No <input checked="" type="radio"/>	Is this sampling point within a wetland? Yes <input type="radio"/> No <input checked="" type="radio"/>
Hydric soils present Yes <input type="radio"/> No <input checked="" type="radio"/>	
Wetland hydrology present Yes <input type="radio"/> No <input checked="" type="radio"/>	

Remarks:

DATA FORM: ROUTINE WETLAND DETERMINATION (1987 COE Wetlands Delineation Manual)

Project/Site: Lagoon Valley Applicant: Triad Homes Investigator(s): S. Lohmann, C. Bouril LSA Associates, Inc., 157 Park Place, Point Richmond, CA 94801 Have vegetation, soils, or hydrology been disturbed? <input checked="" type="radio"/> Yes <input type="radio"/> No Is the area a potential Problem Area? <input checked="" type="radio"/> Yes <input type="radio"/> No	Sample Site No.: <u>34</u> Date: SAUG <u>July 14</u> 2003 Location: Vacaville County: Solano State: CA
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**VEGETATION** (Note those species observed to have morphological adaptations to wetlands with an asterisk "\*\*")

Dominant Plant Species	% Cover	Indicator	Associated Plant Species	% Cover	Indicator
1. <u>HORDEUM MARINUM</u>	<u>45</u>	<u>FAC</u>	1. _____	_____	_____
2. <u>RUMEX POLCHER</u>	<u>4</u>	<u>FAC*</u>	2. _____	_____	_____
3. <u>CENTAUREA SESTITIVUS</u>	<u>4</u>	<u>UPL</u>	3. _____	_____	_____
4. <u>LOLUM MULTIFLORUM</u>	<u>25</u>	<u>FAC</u>	4. _____	_____	_____
5. <u>JUNCUS BUFORNIUS</u>	<u>15</u>	<u>FACW</u>	5. _____	_____	_____
6. _____	_____	_____	6. _____	_____	_____
7. _____	_____	_____	7. _____	_____	_____

100 % dominant species that are OBL, FACW or FAC (except FAC-).  0 % bare ground

Remarks:

**HYDROLOGY**

Field observations: Depth of surface water: <u>—</u> (in.) Depth to free water in pit: <u>—</u> (in.) Depth to saturated soil: <u>—</u> (in.)  Approximate slope: <u>3%</u> Within 100-year floodplain? Yes <input type="radio"/> No <input checked="" type="radio"/> Below OHWM or High Tide Line? Yes <input type="radio"/> No <input checked="" type="radio"/>	Wetland hydrology indicators: <input type="checkbox"/> Inundated <input type="checkbox"/> Water marks <input type="checkbox"/> Sediment deposits <input checked="" type="checkbox"/> Suppressed vegetation (YST) <input type="checkbox"/> Matting (algal or other) <input type="checkbox"/> Other (explain in remarks)  <input type="checkbox"/> Saturated in upper 12" <input type="checkbox"/> Organic duff layer <input type="checkbox"/> Drainage patterns in wetlands <input checked="" type="checkbox"/> Oxidized root channels
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Physiographic position of site/Remarks: SHALLOW SWALE DEMARKED BY HOLES & LACK OF YST.

**SOILS**

Map unit name: _____ Taxonomy (subgroup): _____	Soil series permeability (from NRCS survey): _____ Field observations confirm mapped soil series? Yes <input type="checkbox"/> No <input type="checkbox"/>
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Depth (inches)	Horizon	Matrix Color (moist)	Redoximorphic Colors (moist)	Abundance/Contrast	Additional observations (texture, concretions, porosity, etc.)
<u>0-4"</u>	_____	<u>10YR3/2A2</u>	<u>STRATIG</u>	<u>15% RHIZOS, &gt;5% MOTTLES ON P.F.</u>	_____
<u>4-6"</u>	_____	<u>10YR3/1</u>	<u>BLACK</u>	<u>1%</u>	<u>Mn?</u>
_____	_____	_____	<u>7.5 STRATIG</u>	<u>&lt;2% RHIZOS FADCT</u>	_____

Hydric Soil Indicators:

<input checked="" type="checkbox"/> Abundant rhizospheres	<input type="checkbox"/> Gleying	<input type="checkbox"/> Probable aquic moisture regime
<input type="checkbox"/> Reducing conditions	<input type="checkbox"/> Non-mollic, low-chroma colors	<input type="checkbox"/> Concretions
<input type="checkbox"/> High organic content in surface layer	<input checked="" type="checkbox"/> Iron or Mn mottles	<input type="checkbox"/> Listed on county hydric soils list
<input checked="" type="checkbox"/> Depleted mottles or matrix	<input type="checkbox"/> Sulfidic odor	<input type="checkbox"/> Other (explain in remarks)

Remarks: LOOKS LIKE DEPLETED MATRIX

**WETLAND DETERMINATION**

Hydrophytic vegetation present <input checked="" type="radio"/> Yes <input type="radio"/> No Hydric soils present <input checked="" type="radio"/> Yes <input type="radio"/> No Wetland hydrology present <input checked="" type="radio"/> Yes <input type="radio"/> No	Is this sampling point within a wetland? <input checked="" type="radio"/> Yes <input type="radio"/> No
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Remarks:

DATA FORM: ROUTINE WETLAND DETERMINATION (1987 COE Wetlands Delineation Manual)

Project/Site: Lagoon Valley Applicant: Triad Homes Investigator(s): S. Lohmann, C. Bouril LSA Associates, Inc., 157 Park Place, Point Richmond, CA 94801 Have vegetation, soils, or hydrology been disturbed? Yes No Is the area a potential Problem Area? Yes No	Sample Site No.: <u>35</u> Date: <u>5/20/03</u> <del>July 17, 2003</del> Location: Vacaville County: Solano State: CA
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VEGETATION (Note those species observed to have morphological adaptations to wetlands with an asterisk "\*\*")

Dominant Plant Species	% Cover	Indicator	Associated Plant Species	% Cover	Indicator
1. <u>MENTHA PULEGIUM</u>	<u>20</u>	<u>OBL</u>	1. _____	_____	_____
2. <u>POLYPOGON MONSPELLENSIS</u>	<u>20</u>	<u>FACW</u>	2. _____	_____	_____
3. <u>HORDEUM MARINUM</u>	<u>5</u>	<u>FAC</u>	3. _____	_____	_____
4. <u>RUMEX POLYCHER</u>	<u>20</u>	<u>FAC</u>	4. _____	_____	_____
5. <u>TRIFOLIUM FRUGIFERUM</u>	<u>15</u>	<u>NI</u>	5. _____	_____	_____
6. <u>JUNCUS XIFLOIDIS</u>	<u>20</u>	<u>OBL</u>	6. _____	_____	_____
7. _____	_____	_____	7. _____	_____	_____

100 % dominant species that are OBL, FACW or FAC (except FAC-). 10 % bare ground

Remarks: MAPPED TO EDGE OF MENTHA

HYDROLOGY

Field observations: Depth of surface water: <u>—</u> (in.) Depth to free water in pit: <u>—</u> (in.) Depth to saturated soil: <u>—</u> (in.) Approximate slope: <u>4%</u> Within 100-year floodplain? Yes <input checked="" type="radio"/> No <input type="radio"/> Below OHWM or High Tide Line? Yes <input checked="" type="radio"/> No <input type="radio"/>	Wetland hydrology indicators: <input type="checkbox"/> Inundated <input type="checkbox"/> Water marks <input type="checkbox"/> Sediment deposits <input type="checkbox"/> Suppressed vegetation <input type="checkbox"/> Matting (algal or other) <input checked="" type="checkbox"/> Other (explain in remarks) <u>HOOP PLANTS</u> <input type="checkbox"/> Saturated in upper 12" <input type="checkbox"/> Organic duff layer <input type="checkbox"/> Drainage patterns in wetlands <input checked="" type="checkbox"/> Oxidized root channels
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Physiographic position of site/Remarks: IN DRAINAGE SWALE

SOILS

Map unit name: _____	Soil series permeability (from NRCS survey): _____	Field observations confirm mapped soil series? Yes No			
Taxonomy (subgroup): _____					
Depth (inches)	Horizon	Matrix Color (moist)	Redoximorphic Colors (moist)	Abundance/Contrast	Additional observations (texture, concretions, porosity, etc.)
<u>0-2</u>	_____	<u>10YR 3/2</u>	<u>—</u>	_____	<u>L, sil</u>
<u>2-6</u>	_____	<u>"</u>	<u>5YR 4/6</u>	<u>10% RBZOS</u>	<u>"</u>
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____

Hydric Soil Indicators:

<input checked="" type="checkbox"/> Abundant rhizospheres	<input type="checkbox"/> Gleying	<input type="checkbox"/> Probable aquic moisture regime
<input type="checkbox"/> Reducing conditions	<input type="checkbox"/> Non-mollic, low-chroma colors	<input type="checkbox"/> Concretions
<input type="checkbox"/> High organic content in surface layer	<input type="checkbox"/> Iron or Mn mottles	<input type="checkbox"/> Listed on county hydric soils list
<input type="checkbox"/> Depleted mottles or matrix	<input type="checkbox"/> Sulfidic odor	<input type="checkbox"/> Other (explain in remarks)

Remarks:

WETLAND DETERMINATION

Hydrophytic vegetation present <input checked="" type="radio"/> Yes <input type="radio"/> No	Is this sampling point within a wetland? <input checked="" type="radio"/> Yes <input type="radio"/> No
Hydric soils present <input checked="" type="radio"/> Yes <input type="radio"/> No	
Wetland hydrology present <input checked="" type="radio"/> Yes <input type="radio"/> No	

Remarks:

DATA FORM: ROUTINE WETLAND DETERMINATION (1987 COE Wetlands Delineation Manual)

Project/Site: Lagoon Valley Applicant: Triad Homes Investigator(s): S. Lohmann, C. Bouril LSA Associates, Inc., 157 Park Place, Point Richmond, CA 94801 Have vegetation, soils, or hydrology been disturbed? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Is the area a potential Problem Area? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Sample Site No.: <u>36</u> Date: <u>5/27</u> <del>July 7</del> , 2003 Location: Vacaville County: Solano State: CA
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VEGETATION (Note those species observed to have morphological adaptations to wetlands with an asterisk "\*\*")

Dominant Plant Species	% Cover	Indicator	Associated Plant Species	% Cover	Indicator
1. <u>BROWNS HORDEACEOUS</u>	<u>20</u>	<u>FACU</u>	1. <u>HORDEUM MORDINUM</u>	<u>5</u>	<u>FAC</u>
2. <u>LOLIUM MULTIFLORUM</u>	<u>20</u>	<u>FAC</u>	2. _____	_____	_____
3. <u>TARAXACUM CAPUT-MEDUSAE</u>	<u>30</u>	<u>UPL</u>	3. _____	_____	_____
4. <u>FESTUCA SP</u>	<u>5</u>	_____	4. _____	_____	_____
5. <u>VICIA SP</u>	<u>5</u>	<u>UPL</u>	5. _____	_____	_____
6. <u>PURPLE STARTHUSSE</u>	<u>15</u>	<u>UPL</u>	6. _____	_____	_____
7. <u>RUMEX PULCHER</u>	<u>2</u>	<u>FACU</u>	7. _____	_____	_____
<u>33</u> % dominant species that are OBL, FACW or FAC (except FAC-). <u>0</u> % bare ground					

Remarks:

HYDROLOGY

Field observations: Depth of surface water: _____ (in.) Depth to free water in pit: _____ (in.) Depth to saturated soil: _____ (in.) Approximate slope: <u>15%</u> Within 100-year floodplain? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Below OHWM or High Tide Line? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Wetland hydrology indicators: <u>NONE</u> <input type="checkbox"/> Inundated <input type="checkbox"/> Water marks <input type="checkbox"/> Sediment deposits <input type="checkbox"/> Suppressed vegetation <input type="checkbox"/> Matting (algal or other) <input type="checkbox"/> Other (explain in remarks) <input type="checkbox"/> Saturated in upper 12" <input type="checkbox"/> Organic duff layer <input type="checkbox"/> Drainage patterns in wetlands <input type="checkbox"/> Oxidized root channels
Physiographic position of site/Remarks: <p style="text-align: center; font-size: 1.2em;">NO FOOTPRINTS</p>	

SOILS

Map unit name: _____ Taxonomy (subgroup): _____	Soil series permeability (from NRCS survey): _____ Field observations confirm mapped soil series? Yes <input type="checkbox"/> No <input type="checkbox"/>				
Depth (inches) <u>0-2</u> <u>2-5</u> <u>5-8</u>	Horizon _____ _____ _____	Matrix Color (moist) <u>10YR 7/2</u> <u>10YR 7/3</u> <u>10YR 7/3</u>	Redoximorphic Colors (moist) _____ _____ <u>5YR 3/2</u>	Abundance/Contrast _____ _____ <u>&lt; 2%</u>	Additional observations (texture, concretions, porosity, etc.) _____ _____ <u>FADP</u>
Hydric Soil Indicators:					
<input type="checkbox"/> Abundant rhizospheres	<input checked="" type="checkbox"/> NOT	<input type="checkbox"/> Gleying	<input type="checkbox"/> Probable aquic moisture regime		
<input type="checkbox"/> Reducing conditions		<input type="checkbox"/> Non-mollic, low-chroma colors	<input type="checkbox"/> Concretions		
<input type="checkbox"/> High organic content in surface layer		<input type="checkbox"/> Iron or Mn mottles	<input type="checkbox"/> Listed on county hydric soils list		
<input type="checkbox"/> Depleted mottles or matrix		<input type="checkbox"/> Sulfidic odor	<input type="checkbox"/> Other (explain in remarks)		
Remarks:					

WETLAND 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"/>	Is this sampling point within a wetland? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
Remarks:	

DATA FORM: ROUTINE WETLAND DETERMINATION (1987 COE Wetlands Delineation Manual)

Project/Site: Lagoon Valley Applicant: Triad Homes Investigator(s): S. Lohmann, C. Bouril LSA Associates, Inc., 157 Park Place, Point Richmond, CA 94801 Have vegetation, soils, or hydrology been disturbed? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Is the area a potential Problem Area? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Sample Site No.: <u>37</u> Date: <del>1-4-03</del> August 5, 2003 Location: Vacaville County: Solano State: CA
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**VEGETATION** (Note those species observed to have morphological adaptations to wetlands with an asterisk "\*\*")

Dominant Plant Species	% Cover	Indicator	Associated Plant Species	% Cover	Indicator
1. <u>HERDEUM WORNOUTI</u>	<u>50</u>	<u>FAC</u>	1. _____	_____	_____
2. <u>LOLIUM MULTIFLORUM</u>	<u>50</u>	<u>FAC</u>	2. _____	_____	_____
3. _____	_____	_____	3. _____	_____	_____
4. _____	_____	_____	4. _____	_____	_____
5. _____	_____	_____	5. _____	_____	_____
6. _____	_____	_____	6. _____	_____	_____
7. _____	_____	_____	7. _____	_____	_____

100 % dominant species that are OBL, FACW or FAC (except FAC-). 0 % bare ground

Remarks: AVSP, ERHO ADJACENT

**HYDROLOGY**

Field observations: Depth of surface water: _____ (in.) Depth to free water in pit: _____ (in.) Depth to saturated soil: _____ (in.)  Approximate slope: <u>2%</u> Within 100-year floodplain? Yes <input type="checkbox"/> No <input type="checkbox"/> Below OHWM or High Tide Line? Yes <input type="checkbox"/> No <input type="checkbox"/>	Wetland hydrology indicators: <input type="checkbox"/> Inundated <input type="checkbox"/> Water marks <input type="checkbox"/> Sediment deposits <input checked="" type="checkbox"/> Suppressed vegetation <input checked="" type="checkbox"/> Matting (algal or other) <u>VEG</u> <input type="checkbox"/> Other (explain in remarks)  <input type="checkbox"/> Saturated in upper 12" <input type="checkbox"/> Organic duff layer <input type="checkbox"/> Drainage patterns in wetlands <input checked="" type="checkbox"/> Oxidized root channels
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Physiographic position of site/Remarks: IN EXCAVATED DITCH, IN 8' LONG LOW POINT  
RHIZOSPHERES NOT PRESENT UP & DOWN DITCH

**SOILS**

Map unit name: _____ Taxonomy (subgroup): _____	Soil series permeability (from NRCS survey): _____ Field observations confirm mapped soil series? Yes <input type="checkbox"/> No <input type="checkbox"/>
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Depth (inches)	Horizon	Matrix Color (moist)	Redoximorphic Colors (moist)	Abundance/Contrast	Additional observations (texture, concretions, porosity, etc.)
<u>0-6</u>	_____	<u>10YR4/2</u>	<u>5YR4/6</u>	<u>4% RHIZOS</u>	<u>SICL</u>
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____

Hydric Soil Indicators:

<input checked="" type="checkbox"/> Abundant rhizospheres	<input type="checkbox"/> Gleying	<input type="checkbox"/> Probable aquic moisture regime
<input type="checkbox"/> Reducing conditions	<input type="checkbox"/> Non-mollic, low-chroma colors	<input type="checkbox"/> Concretions
<input type="checkbox"/> High organic content in surface layer	<input type="checkbox"/> Iron or Mn mottles	<input type="checkbox"/> Listed on county hydric soils list
<input type="checkbox"/> Depleted mottles or matrix	<input type="checkbox"/> Sulfidic odor	<input type="checkbox"/> Other (explain in remarks)

Remarks: RHIZOS NOT PRESENT 10' U.S. OR 10' D.S.

**WETLAND DETERMINATION**

Hydrophytic vegetation present <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Hydric soils present <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Wetland hydrology present <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Is this sampling point within a wetland? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
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Remarks: THIS LOCATION IS NON-JURISDICTIONAL BECAUSE OF STANDARD FAC VEG. ONLY + SMALL SIZE. DITCH IS NOT OTHERWISE JURISDICTIONAL.

**DATA FORM: ROUTINE WETLAND DETERMINATION (1987 COE Wetlands Delineation Manual)**

Project/Site: Lagoon Valley Applicant: Triad Homes Investigator(s): S. Lohmann, C. Bouril LSA Associates, Inc., 157 Park Place, Point Richmond, CA 94801 Have vegetation, soils, or hydrology been disturbed? Yes No Is the area a potential Problem Area? Yes No	Sample Site No.: <u>38</u> Date: <u>14 Aug</u> <del>August</del> , 2003 Location: Vacaville County: Solano State: CA
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**VEGETATION** (Note those species observed to have morphological adaptations to wetlands with an asterisk "\*\*")

Dominant Plant Species	% Cover	Indicator	Associated Plant Species	% Cover	Indicator
1. <u>LOLIUM MULTIFLORUM</u>	<u>30</u>	<u>FAC</u>	1. _____	_____	_____
2. <u>RUMEX CRISPUS</u>	<u>20</u>	<u>FAC*</u>	2. _____	_____	_____
3. <u>CAREX SP.</u>	<u>15</u>	_____	3. _____	_____	_____
4. <u>POLYPOGON MONSPELIENSIS</u>	<u>5</u>	<u>FACW</u>	4. _____	_____	_____
5. <u>HORDEUM MARINUM</u>	<u>30</u>	<u>FAC</u>	5. _____	_____	_____
6. _____	_____	_____	6. _____	_____	_____
7. _____	_____	_____	7. _____	_____	_____

100 % dominant species that are OBL, FACW or FAC (except FAC-).  0 % bare ground

Remarks: MAPPED TO EDGE OF CAREX & RUPU

**HYDROLOGY**

Field observations: Depth of surface water: <u>—</u> (in.) Depth to free water in pit: <u>—</u> (in.) Depth to saturated soil: <u>—</u> (in.)  Approximate slope: <u>6%</u> Within 100-year floodplain? Yes No Below OHWM or High Tide Line? Yes No	Wetland hydrology indicators: <input type="checkbox"/> Inundated <input type="checkbox"/> Water marks <input type="checkbox"/> Sediment deposits <input type="checkbox"/> Suppressed vegetation <input type="checkbox"/> Matting (algal or other) <input type="checkbox"/> Other (explain in remarks)  <input type="checkbox"/> Saturated in upper 12" <input type="checkbox"/> Organic duff layer <input type="checkbox"/> Drainage patterns in wetlands <input checked="" type="checkbox"/> Oxidized root channels
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Physiographic position of site/Remarks: IN FLATTENED WETLAND STREAM SEGMENT

**SOILS**

Map unit name: _____ Taxonomy (subgroup): _____	Soil series permeability (from NRCS survey): _____ Field observations confirm mapped soil series? Yes No				
Depth (inches) <u>0-6"</u>	Horizon _____	Matrix Color (moist) <u>10YR 7/2</u>	Redoximorphic Colors (moist) <u>10YR 5/2</u> <u>5YR 4/4</u>	Abundance/Contrast <u>15%</u> <u>10%</u>	Additional observations (texture, concretions, porosity, etc.) <u>(CL) DEPLETIONS</u> <u>RHIZOSPHERES</u>
Hydric Soil Indicators: <input checked="" type="checkbox"/> Abundant rhizospheres <input type="checkbox"/> Reducing conditions <input type="checkbox"/> High organic content in surface layer <input checked="" type="checkbox"/> Depleted mottles or matrix <input type="checkbox"/> Gleying <input type="checkbox"/> Non-mollic, low-chroma colors <input type="checkbox"/> Iron or Mn mottles <input type="checkbox"/> Sulfidic odor <input type="checkbox"/> Probable aquic moisture regime <input type="checkbox"/> Concretions <input type="checkbox"/> Listed on county hydric soils list <input type="checkbox"/> Other (explain in remarks)					

Remarks:

**WETLAND DETERMINATION**

Hydrophytic vegetation present <input checked="" type="radio"/> Yes <input type="radio"/> No Hydric soils present <input checked="" type="radio"/> Yes <input type="radio"/> No Wetland hydrology present <input checked="" type="radio"/> Yes <input type="radio"/> No	Is this sampling point within a wetland? <input checked="" type="radio"/> Yes <input type="radio"/> No
Remarks:	

**DATA FORM: ROUTINE WETLAND DETERMINATION (1987 COE Wetlands Delineation Manual)**

Project/Site: Lagoon Valley Applicant: Triad Homes Investigator(s): S. Lohmann, C. Bouril LSA Associates, Inc., 157 Park Place, Point Richmond, CA 94801 Have vegetation, soils, or hydrology been disturbed? Yes No Is the area a potential Problem Area? Yes No	Sample Site No.: <u>39</u> Date: <u>14 Aug 2003</u> Location: Vacaville County: Solano State: CA
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**VEGETATION** (Note those species observed to have morphological adaptations to wetlands with an asterisk "\*\*")

Dominant Plant Species	% Cover	Indicator	Associated Plant Species	% Cover	Indicator
1. <u>LOLUM MULTIFLORUM</u>	<u>20</u>	<u>FAC</u>	1. _____	_____	_____
2. <u>JUNCUS URTICATUS</u>	<u>25</u>	<u>FACW</u>	2. _____	_____	_____
3. <u>HORDEUM MARINUM</u>	<u>20</u>	<u>FAC</u>	3. _____	_____	_____
4. <u>AVENA SP.</u>	<u>5</u>	<u>UPL</u>	4. _____	_____	_____
5. <u>TORRENTIUM CAPUT-MERTENSE</u>	<u>15</u>	<u>UPL</u>	5. _____	_____	_____
6. <u>BROWNS HORDEACEOUS</u>	<u>10</u>	<u>FACU</u>	6. _____	_____	_____
7. _____	_____	_____	7. _____	_____	_____

100% dominant species that are OBL, FACW or FAC (except FAC-). \_\_\_\_\_% bare ground

Remarks: WETTED TO CREOF JUNE

**HYDROLOGY**

Field observations: Depth of surface water: <u>—</u> (in.) Depth to free water in pit: <u>—</u> (in.) Depth to saturated soil: <u>—</u> (in.) Approximate slope: <u>16%</u> Within 100-year floodplain? Yes <input checked="" type="checkbox"/> No Below OHWM or High Tide Line? Yes <input checked="" type="checkbox"/> No	Wetland hydrology indicators: <input type="checkbox"/> Inundated <input type="checkbox"/> Water marks <input type="checkbox"/> Sediment deposits <input type="checkbox"/> Suppressed vegetation <input type="checkbox"/> Matting (algal or other) <input type="checkbox"/> Other (explain in remarks) <input type="checkbox"/> Saturated in upper 12" <input type="checkbox"/> Organic duff layer <input type="checkbox"/> Drainage patterns in wetlands <input checked="" type="checkbox"/> Oxidized root channels
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Physiographic position of site/Remarks: HILLSIDE SEEP ON SOUTH BANK OF STREAM ~18' X 80'

**SOILS**

Map unit name: _____	Soil series permeability (from NRCS survey): _____
Taxonomy (subgroup): _____	Field observations confirm mapped soil series? Yes No

Depth (inches)	Horizon	Matrix Color (moist)	Redoximorphic Colors (moist)	Abundance/Contrast	Additional observations (texture, concretions, porosity, etc.)
<u>0-3</u>		<u>10YR4/3</u>	<u>5YR4/6</u>	<u>60% RBZ0p</u>	<u>SIL</u>

Hydric Soil Indicators:		
<input checked="" type="checkbox"/> Abundant rhizospheres	<input type="checkbox"/> Gleying	<input type="checkbox"/> Probable aquic moisture regime
<input type="checkbox"/> Reducing conditions	<input type="checkbox"/> Non-mollic, low-chroma colors	<input type="checkbox"/> Concretions
<input type="checkbox"/> High organic content in surface layer	<input type="checkbox"/> Iron or Mn mottles	<input type="checkbox"/> Listed on county hydric soils list
<input type="checkbox"/> Depleted mottles or matrix	<input type="checkbox"/> Sulfidic odor	<input type="checkbox"/> Other (explain in remarks)

Remarks: \_\_\_\_\_

**WETLAND DETERMINATION**

Hydrophytic vegetation present <input checked="" type="checkbox"/> Yes No	Is this sampling point within a wetland? <input checked="" type="checkbox"/> Yes No
Hydric soils present <input checked="" type="checkbox"/> Yes No	
Wetland hydrology present <input checked="" type="checkbox"/> Yes No	

Remarks: \_\_\_\_\_

**DATA FORM: ROUTINE WETLAND DETERMINATION (1987 COE Wetlands Delineation Manual)**

Project/Site: Lagoon Valley Applicant: Triad Homes Investigator(s): <del>S. Johnson</del> , C. Bouril <b>S. HARRIS</b> LSA Associates, Inc., 157 Park Place, Point Richmond, CA 94801 Have vegetation, soils, or hydrology been disturbed? Yes No Is the area a potential Problem Area? Yes No	Sample Site No.: <u>40</u> Date: <del>2/15/03</del> <b>August 5, 2003</b> Location: Vacaville County: Solano State: CA
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**VEGETATION** (Note those species observed to have morphological adaptations to wetlands with an asterisk "\*\*")

Dominant Plant Species	% Cover	Indicator	Associated Plant Species	% Cover	Indicator
1. <u>DISTICHLIS SPICATA</u>	<u>25</u>	<u>FACW</u>	1. _____	_____	_____
2. <u>Feenathrum CAPUT-MURSAE</u>	<u>10</u>	<u>UPI</u>	2. _____	_____	_____
3. <u>Lolium MULTIFLORUM</u>	<u>63</u>	<u>FAC</u>	3. _____	_____	_____
4. <u>Vicia sp.</u>	<u>2</u>	_____	4. _____	_____	_____
5. _____	_____	_____	5. _____	_____	_____
6. _____	_____	_____	6. _____	_____	_____
7. _____	_____	_____	7. _____	_____	_____

100 % dominant species that are OBL, FACW or FAC (except FAC-). \_\_\_\_\_ % bare ground

Remarks:

**HYDROLOGY**

Field observations: Depth of surface water: _____ (in.) Depth to free water in pit: _____ (in.) Depth to saturated soil: _____ (in.)  Approximate slope: <u>22</u> Within 100-year floodplain? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Below OHWM or High Tide Line? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Wetland hydrology indicators: <u>none</u> <input type="checkbox"/> Inundated <input type="checkbox"/> Water marks <input type="checkbox"/> Sediment deposits <input type="checkbox"/> Suppressed vegetation <input type="checkbox"/> Matting (algal or other) <input type="checkbox"/> Other (explain in remarks)  <input type="checkbox"/> Saturated in upper 12" <input type="checkbox"/> Organic duff layer <input type="checkbox"/> Drainage patterns in wetlands <input type="checkbox"/> Oxidized root channels
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Physiographic position of site/Remarks:

**SOILS**

Map unit name: _____ Taxonomy (subgroup): _____	Soil series permeability (from NRCS survey): _____ Field observations confirm mapped soil series? Yes No
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Depth (inches)	Horizon	Matrix Color (moist)	Redoximorphic Colors (moist)	Abundance/Contrast	Additional observations (texture, concretions, porosity, etc.)
<u>0-9</u>	_____	<u>10YR 3/2</u>	_____	_____	<u>FILL !?</u>
<u>10-12</u>	_____	<u>10YR 3/2+</u>	_____	<u>20%</u>	<u>Silt loam</u> <u>MIXED</u>
_____	_____	<u>10YR 4/2+</u>	_____	<u>77%</u>	
_____	_____	<u>10YR 5/4</u>	_____	<u>3</u>	

Hydric Soil Indicators: <input type="checkbox"/> Abundant rhizospheres <input type="checkbox"/> Reducing conditions <input type="checkbox"/> High organic content in surface layer <input type="checkbox"/> Depleted mottles or matrix	<input type="checkbox"/> Gleying <input type="checkbox"/> Non-mollic, low-chroma colors <input type="checkbox"/> Iron or Mn mottles <input type="checkbox"/> Sulfidic odor	<input type="checkbox"/> Probable aquic moisture regime <input type="checkbox"/> Concretions <input type="checkbox"/> Listed on county hydric soils list <input type="checkbox"/> Other (explain in remarks)
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Remarks:

**WETLAND DETERMINATION**

Hydrophytic vegetation present <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Hydric soils present <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Wetland hydrology present <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Is this sampling point within a wetland? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
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Remarks:

DATA FORM: ROUTINE WETLAND DETERMINATION (1987 COE Wetlands Delineation Manual)

Project/Site: Lagoon Valley Applicant: Triad Homes Investigator(s): <del>E. Lohmann</del> , C. Bouril, S. HARRIS LSA Associates, Inc., 157 Park Place, Point Richmond, CA 94801 Have vegetation, soils, or hydrology been disturbed? <input checked="" type="radio"/> Yes <input type="radio"/> No Is the area a potential Problem Area? <input checked="" type="radio"/> Yes <input type="radio"/> No	Sample Site No.: 41 Date: <del>7/25/03</del> August 5, 2003 Location: Vacaville County: Solano State: CA
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VEGETATION (Note those species observed to have morphological adaptations to wetlands with an asterisk "\*\*")

Dominant Plant Species	% Cover	Indicator	Associated Plant Species	% Cover	Indicator
1. <u>JUNCUS XIPHOIDES</u>	86	OBL	1. _____	_____	_____
2. <u>WALWALIA LEPROSA</u> etc	5	FAC	2. _____	_____	_____
3. <u>PUMPKIN CRISPOJ</u>	5	FACW	3. _____	_____	_____
4. <u>ASCLEPIAS FASCICULARIS</u>	4	FAC	4. _____	_____	_____
5. <u>(NARROW LEAF WILLOW)</u>	_____	_____	5. _____	_____	_____
6. _____	_____	_____	6. _____	_____	_____
7. _____	_____	_____	7. _____	_____	_____

100 % dominant species that are OBL, FACW or FAC (except FAC-). 0 % bare ground

Remarks:

HYDROLOGY

Field observations: Depth of surface water: _____ (in.) Depth to free water in pit: _____ (in.) Depth to saturated soil: _____ (in.) Approximate slope: <u>1:20</u> Within 100-year floodplain? Yes <input checked="" type="radio"/> No <input type="radio"/> Below OHWM or High Tide Line? Yes <input checked="" type="radio"/> No <input type="radio"/>	Wetland hydrology indicators: <input type="checkbox"/> Inundated <input checked="" type="checkbox"/> Water marks <input type="checkbox"/> Sediment deposits <input type="checkbox"/> Suppressed vegetation <input type="checkbox"/> Matting (algal or other) <input type="checkbox"/> Other (explain in remarks) <u>ALFALFA SACCS STAIN ON SFC</u> <input type="checkbox"/> Saturated in upper 12" <input type="checkbox"/> Organic duff layer <input type="checkbox"/> Drainage patterns in wetlands <input type="checkbox"/> Oxidized root channels
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Physiographic position of site/Remarks: LOW AREA DOMINATED BY J. XIPHOIDES, MAPPED TO LIMIT OF J. XIPHOIDES

SOILS

Map unit name: _____	Soil series permeability (from NRCS survey): _____
Taxonomy (subgroup): _____	Field observations confirm mapped soil series? Yes No

Depth (inches)	Horizon	Matrix Color (moist)	Redoximorphic Colors (moist)	Abundance/Contrast	Additional observations (texture, concretions, porosity, etc.)
0-4	_____	<u>10TR72</u>	_____	_____	<u>SIL</u>
4-12	_____	<u>10TR42</u>	_____	_____	<u>LI</u>

Hydric Soil Indicators: <u>NONE</u>		
<input type="checkbox"/> Abundant rhizospheres	<input type="checkbox"/> Gleying	<input type="checkbox"/> Probable aquic moisture regime
<input type="checkbox"/> Reducing conditions	<input type="checkbox"/> Non-mollic, low-chroma colors	<input type="checkbox"/> Concretions
<input type="checkbox"/> High organic content in surface layer	<input type="checkbox"/> Iron or Mn mottles	<input type="checkbox"/> Listed on county hydric soils list
<input type="checkbox"/> Depleted mottles or matrix	<input type="checkbox"/> Sulfidic odor	<input type="checkbox"/> Other (explain in remarks)

Remarks:

WETLAND DETERMINATION

Hydrophytic vegetation present <input checked="" type="radio"/> Yes <input type="radio"/> No Hydric soils present <input checked="" type="radio"/> Yes <input type="radio"/> No Wetland hydrology present <input checked="" type="radio"/> Yes <input type="radio"/> No	Is this sampling point within a wetland? <input checked="" type="radio"/> Yes <input type="radio"/> No
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Remarks: CONCLUDING THAT THE FEATURE IS A WETLAND BECAUSE OF 11% OF J. XIPHOIDES AND THE POSSIBILITY THAT ALFALFA SOIL OR SPECIFIC SITE HYDROLOGY IS PREVENTING FORMATION OF HYDRIC SOIL INDICATORS

DATA FORM: ROUTINE WETLAND DETERMINATION (1987 COE Wetlands Delineation Manual)

Project/Site: Lagoon Valley Applicant: Triad Homes Investigator(s): <del>S. Johnson</del> , C. Bouril, S. HARRIS LSA Associates, Inc., 157 Park Place, Point Richmond, CA 94801 Have vegetation, soils, or hydrology been disturbed? Yes No Is the area a potential Problem Area? Yes No	Sample Site No.: <u>42</u> Date: <u>21 Aug.</u> <del>August 5, 2003</del> Location: Vacaville County: Solano State: CA
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VEGETATION (Note those species observed to have morphological adaptations to wetlands with an asterisk "\*\*")

Dominant Plant Species	% Cover	Indicator	Associated Plant Species	% Cover	Indicator
1. <u>Tarriacanthum Caps Mo</u>	<u>1</u>	<u>VPL</u>	1. _____	_____	_____
2. <u>Bromus HORDEACEUS</u>	<u>99</u>	<u>FACU</u>	2. _____	_____	_____
3. _____	_____	_____	3. _____	_____	_____
4. _____	_____	_____	4. _____	_____	_____
5. _____	_____	_____	5. _____	_____	_____
6. _____	_____	_____	6. _____	_____	_____
7. _____	_____	_____	7. _____	_____	_____

% dominant species that are OBL, FACW or FAC (except FAC-).  % bare ground

Remarks:

HYDROLOGY

Field observations: Depth of surface water: _____ (in.) Depth to free water in pit: _____ (in.) Depth to saturated soil: _____ (in.)  Approximate slope: Within 100-year floodplain? Yes <input checked="" type="checkbox"/> No Below OHWM or High Tide Line? Yes <input checked="" type="checkbox"/> No	Wetland hydrology indicators: <u>none</u>  <input type="checkbox"/> Inundated <input type="checkbox"/> Water marks <input type="checkbox"/> Sediment deposits <input type="checkbox"/> Suppressed vegetation <input type="checkbox"/> Matting (algal or other) <input type="checkbox"/> Other (explain in remarks)  <input type="checkbox"/> Saturated in upper 12" <input type="checkbox"/> Organic duff layer <input type="checkbox"/> Drainage patterns in wetlands <input type="checkbox"/> Oxidized root channels
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Physiographic position of site/Remarks:

SOILS

Map unit name: _____	Soil series permeability (from NRCS survey): _____
Taxonomy (subgroup): _____	Field observations confirm mapped soil series? Yes No

Depth (inches)	Horizon	Matrix Color (moist)	Redoximorphic Colors (moist)	Abundance/Contrast	Additional observations (texture, concretions, porosity, etc.)
<u>0-8</u>		<u>10YR 3/2</u>			<u>Clay loam</u>
<u>8-12</u>		<u>10YR 3/2</u>	<u>5YR 4/6</u>	<u>4%</u>	<u>Sandy loam</u> <u>RHIZOSPHERES</u>

Hydic Soil Indicators: <input type="checkbox"/> Abundant rhizospheres <input type="checkbox"/> Reducing conditions <input type="checkbox"/> High organic content in surface layer <input type="checkbox"/> Depleted mottles or matrix	<input type="checkbox"/> Gleying <input type="checkbox"/> Non-mollic, low-chroma colors <input type="checkbox"/> Iron or Mn mottles <input type="checkbox"/> Sulfidic odor	<input type="checkbox"/> Probable aquic moisture regime <input type="checkbox"/> Concretions <input type="checkbox"/> Listed on county hydic soils list <input type="checkbox"/> Other (explain in remarks)
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Remarks: 12 feet West of #41, 12 inches higher ELEVATION.

WETLAND DETERMINATION

Hydrophytic vegetation present Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Hydic soils present <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Wetland hydrology present Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Is this sampling point within a wetland? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
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Remarks:

DATA FORM: ROUTINE WETLAND DETERMINATION (1987 COE Wetlands Delineation Manual)

Project/Site: Lagoon Valley Applicant: Triad Homes Investigator(s): S. <del>Lohmann</del> , C. Bouril <b>S. HARRIS</b> LSA Associates, Inc., 157 Park Place, Point Richmond, CA 94801 Have vegetation, soils, or hydrology been disturbed? Yes No Is the area a potential Problem Area? Yes No	Sample Site No.: <u>43</u> Date: <u>21 Aug</u> <u>August 5, 2003</u> Location: Vacaville County: Solano State: CA
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VEGETATION (Note those species observed to have morphological adaptations to wetlands with an asterisk "\*\*")

Dominant Plant Species	% Cover	Indicator	Associated Plant Species	% Cover	Indicator
1. <u>DISCHYSIS SPICATA</u>	<u>100</u>	<u>FACW</u>	1. _____	_____	_____
2. <u>FRANKENIA SOLINA</u>	<u>&lt;1</u>	<u>FACW*</u>	2. _____	_____	_____
3. _____	_____	_____	3. _____	_____	_____
4. _____	_____	_____	4. _____	_____	_____
5. _____	_____	_____	5. _____	_____	_____
6. _____	_____	_____	6. _____	_____	_____
7. _____	_____	_____	7. _____	_____	_____

100 % dominant species that are OBL, FACW or FAC (except FAC-). 0 % bare ground

Remarks:

HYDROLOGY

Field observations: Depth of surface water: _____ (in.) Depth to free water in pit: _____ (in.) Depth to saturated soil: _____ (in.) Approximate slope: <u>&lt; 1%</u> Within 100-year floodplain? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Below OHWM or High Tide Line? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Wetland hydrology indicators: <input type="checkbox"/> Inundated <input type="checkbox"/> Water marks <input type="checkbox"/> Sediment deposits <input checked="" type="checkbox"/> Suppressed vegetation <input checked="" type="checkbox"/> Matting (algal or other) <u>LAST YEAR'S VEGETATION</u> <input type="checkbox"/> Other (explain in remarks) <input type="checkbox"/> Saturated in upper 12" <input type="checkbox"/> Organic duff layer <input type="checkbox"/> Drainage patterns in wetlands <input type="checkbox"/> Oxidized root channels
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Physiographic position of site/Remarks:  
Alkali stains at surface

SOILS

Map unit name: _____		Soil series permeability (from NRCS survey): _____			
Taxonomy (subgroup): _____		Field observations confirm mapped soil series? Yes No			
Depth (inches)	Horizon	Matrix Color (moist)	Redoximorphic Colors (moist)	Abundance/Contrast	Additional observations (texture, concretions, porosity, etc.)
<u>0-4</u>	_____	<u>10YR 3/1</u>	_____	<u>100%</u>	<u>clay loam</u>
<u>4-8</u>	_____	<u>10YR 3/2+</u>	_____	<u>50%</u>	<u>Loam</u>
_____	_____	<u>10YR 4/2</u>	_____	<u>50%</u>	_____
<u>8-12</u>	_____	<u>10YR 4/4+</u>	_____	<u>60%</u>	_____
_____	_____	<u>10YR 3/2</u>	_____	<u>40%</u>	_____

Hydric Soil Indicators:

<input type="checkbox"/> Abundant rhizospheres	<input type="checkbox"/> Gleying	<input type="checkbox"/> Probable aquic moisture regime
<input type="checkbox"/> Reducing conditions	<input checked="" type="checkbox"/> Non-mollic, low-chroma colors	<input type="checkbox"/> Concretions
<input type="checkbox"/> High organic content in surface layer	<input type="checkbox"/> Iron or Mn mottles	<input type="checkbox"/> Listed on county hydric soils list
<input type="checkbox"/> Depleted mottles or matrix	<input type="checkbox"/> Sulfidic odor	<input type="checkbox"/> Other (explain in remarks)

Remarks: SOIL DISTURBED BY CULTIVATION. UPPER HORIZON APPEARS INFLUENCED BY CURRENT VEGETATION AND HYDROLOGY. ONLY INDICATOR IS TOP HORIZON LOW CHROMA

WETLAND DETERMINATION

Hydrophytic vegetation present <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Hydric soils present <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Wetland hydrology present <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Is this sampling point within a wetland? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
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Remarks: