

WETLAND DETERMINATION DATA FORM - Arid West Region

Project/Site: 2 Gates/Connection Slough City/County: Bacon Island, San Joaquin Sampling Date: 9/9/08
 Applicant/Owner: Contra Costa Water District State: CA Sampling Point: 21A
 Investigator(s): T. Mahony, A. Richey Section, Township, Range: T2N R4E sec22
 Landform (hillslope, terrace, etc.): ditch Local relief (concave, convex, none): concave Slope (%): 0-2
 Subregion (LRR): C - Mediterranean California Lat: 37° 59' 59" Long: 121° 31' 33" Datum: NAD 83

Soil Map Unit Name: Itano silty clay, paritally drained, 0-2% slopes NWI classification: _____
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes ☒ No ☐ (If no, explain in Remarks.)
 Are Vegetation ☐ Soil ☐ or Hydrology ☐ significantly disturbed? Are "Normal Circumstances" present? Yes ☒ No ☐
 Are Vegetation ☐ Soil ☐ or Hydrology ☐ naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	Is the Sampled Area within a Wetland?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
Hydric Soil Present?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>			
Wetland Hydrology Present?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>			
Remarks: <u>Located in aquacultural drainage ditch alongside a field currently cultivated with sunflowers. Ditch is approximately 6 ft wide</u>					

VEGETATION

Tree Stratum (Use scientific names.)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: <u>2</u> (A) Total Number of Dominant Species Across All Strata: <u>2</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>100</u> % (A/B)																					
1.																									
2.																									
3.																									
4.																									
Total Cover: _____ %				Prevalence Index worksheet: <table border="1"> <thead> <tr> <th>Total % Cover of:</th> <th>Multiply by:</th> <th></th> </tr> </thead> <tbody> <tr><td>OBL species</td><td>x 1 =</td><td>0</td></tr> <tr><td>FACW species</td><td>x 2 =</td><td>0</td></tr> <tr><td>FAC species</td><td>x 3 =</td><td>0</td></tr> <tr><td>FACU species</td><td>x 4 =</td><td>0</td></tr> <tr><td>UPL species</td><td>x 5 =</td><td>0</td></tr> <tr><td>Column Totals:</td><td>(A)</td><td>0 (B)</td></tr> </tbody> </table> Prevalence Index = B/A = _____	Total % Cover of:	Multiply by:		OBL species	x 1 =	0	FACW species	x 2 =	0	FAC species	x 3 =	0	FACU species	x 4 =	0	UPL species	x 5 =	0	Column Totals:	(A)	0 (B)
Total % Cover of:	Multiply by:																								
OBL species	x 1 =	0																							
FACW species	x 2 =	0																							
FAC species	x 3 =	0																							
FACU species	x 4 =	0																							
UPL species	x 5 =	0																							
Column Totals:	(A)	0 (B)																							
Sapling/Shrub Stratum 1. _____ 2. _____ 3. _____ 4. _____ 5. _____ Total Cover: _____ %																									
Herb Stratum 1. <u>Typha latifolia</u> <u>45</u> <u>y</u> <u>OBL</u> 2. <u>Flutnea arundinacea</u> <u>45</u> <u>y</u> <u>FAC-</u> 3. <u>Corypha canadensis</u> <u>5</u> <u></u> <u>FAC</u> 4. <u>Raphanus sativa</u> <u>5</u> <u></u> <u>NL</u> 5. _____ 6. _____ 7. _____ 8. _____ Total Cover: _____ %																									
Woody Vine Stratum 1. _____ 2. _____ Total Cover: _____ %																									
% Bare Ground in Herb Stratum _____ % % Cover of Biotic Crust _____ %				Hydrophytic Vegetation Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>																					
Remarks: <u>Ditch has been dredged. Dredge spoils were deposited alongside ditch.</u>																									

Sampling Point: 21 A

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)								
Depth (inches)	Matrix		Redox Features		Type ¹	Loc ²	Texture ³	Remarks
	Color (moist)	%	Color (moist)	%				
0-16	10YR 2/1	85	10YR 4/6	15	C	M	silt loam	

¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix.

²Location: PL=Pore Lining, RC=Root Channel, M=Matrix.

³Soil Textures: Clay, Silty Clay, Sandy Clay, Loam, Sandy Clay Loam, Sandy Loam, Clay Loam, Silty Clay Loam, Silt Loam, Silt, Loamy Sand, Sand.

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)

<input type="checkbox"/> Histosol (A1)	<input type="checkbox"/> Sandy Redox (S5)
<input type="checkbox"/> Histic Epipedon (A2)	<input type="checkbox"/> Stripped Matrix (S6)
<input type="checkbox"/> Black Histic (A3)	<input type="checkbox"/> Loamy Mucky Mineral (F1)
<input type="checkbox"/> Hydrogen Sulfide (A4)	<input type="checkbox"/> Loamy Gleyed Matrix (F2)
<input type="checkbox"/> Stratified Layers (A5) (LRR C)	<input type="checkbox"/> Depleted Matrix (F3)
<input type="checkbox"/> 1 cm Muck (A9) (LRR D)	<input checked="" type="checkbox"/> Redox Dark Surface (F6)
<input type="checkbox"/> Depleted Below Dark Surface (A11)	<input type="checkbox"/> Depleted Dark Surface (F7)
<input type="checkbox"/> Thick Dark Surface (A12)	<input type="checkbox"/> Redox Depressions (F8)
<input type="checkbox"/> Sandy Mucky Mineral (S1)	<input type="checkbox"/> Vernal Pools (F9)
<input type="checkbox"/> Sandy Gleyed Matrix (S4)	

Indicators for Problematic Hydric Soils:

- ☐ 1 cm Muck (A9) (**LRR C**)
- ☐ 2 cm Muck (A10) (**LRR B**)
- ☐ Reduced Vertic (F18)
- ☐ Red Parent Material (TF2)
- ☐ Other (Explain in Remarks)

⁴Indicators of hydrophytic vegetation and wetland hydrology must be present.

Restrictive Layer (if present):

 Type: _____
 Depth (inches): _____

Hydric Soil Present? Yes ☒ No ☐

Remarks:
Redox features are somewhat diffuse

HYDROLOGY

Wetland Hydrology Indicators:				Secondary Indicators (2 or more required)	
Primary Indicators (any one indicator is sufficient)					
<input checked="" type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Salt Crust (B11)	<input type="checkbox"/> Water Marks (B1) (Riverine)			
<input type="checkbox"/> High Water Table (A2)	<input type="checkbox"/> Biotic Crust (B12)	<input type="checkbox"/> Sediment Deposits (B2) (Riverine)			
<input checked="" type="checkbox"/> Saturation (A3)	<input type="checkbox"/> Aquatic Invertebrates (B13)	<input type="checkbox"/> Drift Deposits (B3) (Riverine)			
<input type="checkbox"/> Water Marks (B1) (Nonriverine)	<input checked="" type="checkbox"/> Hydrogen Sulfide Odor (C1)	<input type="checkbox"/> Drainage Patterns (B10)			
<input type="checkbox"/> Sediment Deposits (B2) (Nonriverine)	<input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3)	<input type="checkbox"/> Dry-Season Water Table (C2)			
<input type="checkbox"/> Drift Deposits (B3) (Nonriverine)	<input type="checkbox"/> Presence of Reduced Iron (C4)	<input type="checkbox"/> Thin Muck Surface (C7)			
<input type="checkbox"/> Surface Soil Cracks (B6)	<input type="checkbox"/> Recent Iron Reduction in Plowed Soils (C6)	<input type="checkbox"/> Crayfish Burrows (C8)			
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)	<input type="checkbox"/> Other (Explain in Remarks)	<input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)			
<input type="checkbox"/> Water-Stained Leaves (B9)		<input type="checkbox"/> Shallow Aquitard (D3)			
		<input type="checkbox"/> FAC-Neutral Test (D5)			
Field Observations:					
Surface Water Present?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	Depth (inches):	6-12	
Water Table Present?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	Depth (inches):		
Saturation Present? (includes capillary fringe)	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	Depth (inches):		
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:				Wetland Hydrology Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	
Remarks:					

WETLAND DETERMINATION DATA FORM - Arid West Region

Project/Site: 2 Gates/Connection Slough City/County: Bacon Island, San Joaquin Sampling Date: 9/9/08
 Applicant/Owner: Contra Costa Water District State: CA Sampling Point: 21B
 Investigator(s): T. Mahony, A. Richey Section, Township, Range: T2N, R4E sec 22
 Landform (hillslope, terrace, etc.): terrace (field) Local relief (concave, convex, none): slight convex Slope (%): 0-2
 Subregion (LRR): C - Mediterranean California Lat: 37° 59' 59" Long: 121° 31' 33" Datum: NAD 83

Soil Map Unit Name: Itano silty clay, paritally drained, 0-2% slopes NWI classification: _____
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes ☒ No ☐ (If no, explain in Remarks.)
 Are Vegetation ☐ Soil ☐ or Hydrology ☐ significantly disturbed? Are "Normal Circumstances" present? Yes ☒ No ☐
 Are Vegetation ☐ Soil ☐ or Hydrology ☐ naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>	Is the Sampled Area within a Wetland?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>
Hydric Soil Present?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>			
Wetland Hydrology Present?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>			
Remarks: <u>Located in fallow field upslope of ditch described in 21A.</u>					

VEGETATION

Tree Stratum (Use scientific names.)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:	
1.				Number of Dominant Species That Are OBL, FACW, or FAC:	<u>1</u> (A)
2.				Total Number of Dominant Species Across All Strata:	<u>2</u> (B)
3.				Percent of Dominant Species That Are OBL, FACW, or FAC:	<u>50</u> % (A/B)
4.					
Total Cover: _____ %					
Sapling/Shrub Stratum				Prevalence Index worksheet:	
1.				Total % Cover of:	Multiply by:
2.				OBL species	x 1 = 0
3.				FACW species	x 2 = 0
4.				FAC species	x 3 = 0
5.				FACU species	x 4 = 0
Total Cover: _____ %				UPL species	x 5 = 0
				Column Totals:	(A) 0 (B)
Herb Stratum				Prevalence Index = B/A = _____	
1. <u>Cynodon dactylon</u>	<u>50</u>	<u>y</u>	<u>FAC</u>	Hydrophytic Vegetation Indicators:	
2. <u>Convolvulus arvensis</u>	<u>45</u>	<u>y</u>	<u>NL</u>	<input checked="" type="checkbox"/> Dominance Test is >50%	
3. <u>Paspalum sativa</u>	<u>5</u>	<u>y</u>	<u>NL</u>	<input checked="" type="checkbox"/> Prevalence Index is ≤3.0 ¹	
4.				<input type="checkbox"/> Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)	
5.				<input type="checkbox"/> Problematic Hydrophytic Vegetation ¹ (Explain)	
6.				¹ Indicators of hydric soil and wetland hydrology must be present.	
7.					
8.					
Total Cover: _____ %					
Woody Vine Stratum				Hydrophytic Vegetation Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	
1.					
2.					
Total Cover: _____ %					
% Bare Ground in Herb Stratum _____ % % Cover of Biotic Crust _____ %					
Remarks:					

SOIL

Sampling Point: 218

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth (inches)	Matrix		Redox Features		Type ¹	Loc ²	Texture ³	Remarks
	Color (moist)	%	Color (moist)	%				
0-16	10YR 2/2	99	10YR 4/6	<1	C	m	silty clay	

¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix. ²Location: PL=Pore Lining, RC=Root Channel, M=Matrix.³Soil Textures: Clay, Silty Clay, Sandy Clay, Loam, Sandy Clay Loam, Sandy Loam, Clay Loam, Silty Clay Loam, Silt Loam, Silt, Loamy Sand, Sand.

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)

- ☐ Histosol (A1)
☐ Histic Epipedon (A2)
☐ Black Histic (A3)
☐ Hydrogen Sulfide (A4)
☐ Stratified Layers (A5) (LRR C)
☐ 1 cm Muck (A9) (LRR D)
☐ Depleted Below Dark Surface (A11)
☐ Thick Dark Surface (A12)
☐ Sandy Mucky Mineral (S1)
☐ Sandy Gleyed Matrix (S4)

- ☐ Sandy Redox (S5)
☐ Stripped Matrix (S6)
☐ Loamy Mucky Mineral (F1)
☐ Loamy Gleyed Matrix (F2)
☐ Depleted Matrix (F3)
☐ Redox Dark Surface (F6)
☐ Depleted Dark Surface (F7)
☐ Redox Depressions (F8)
☐ Vernal Pools (F9)

Indicators for Problematic Hydric Soils:

- ☐ 1 cm Muck (A9) (LRR C)
☐ 2 cm Muck (A10) (LRR B)
☐ Reduced Vertic (F18)
☐ Red Parent Material (TF2)
☐ Other (Explain in Remarks)

⁴Indicators of hydrophytic vegetation and wetland hydrology must be present.

Restrictive Layer (if present):

Type: _____

Depth (inches): _____

Hydric Soil Present? Yes ☐ No ☒

Remarks:

No hydric soil indicators observed.

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (any one indicator is sufficient)

- ☐ Surface Water (A1)
☐ High Water Table (A2)
☐ Saturation (A3)
☐ Water Marks (B1) (Nonriverine)
☐ Sediment Deposits (B2) (Nonriverine)
☐ Drift Deposits (B3) (Nonriverine)
☐ Surface Soil Cracks (B6)
☐ Inundation Visible on Aerial Imagery (B7)
☐ Water-Stained Leaves (B9)
☐ Salt Crust (B11)
☐ Biotic Crust (B12)
☐ Aquatic Invertebrates (B13)
☐ Hydrogen Sulfide Odor (C1)
☐ Oxidized Rhizospheres along Living Roots (C3)
☐ Presence of Reduced Iron (C4)
☐ Recent Iron Reduction in Plowed Soils (C6)
☐ Other (Explain in Remarks)

Secondary Indicators (2 or more required)

- ☐ Water Marks (B1) (Riverine)
☐ Sediment Deposits (B2) (Riverine)
☐ Drift Deposits (B3) (Riverine)
☐ Drainage Patterns (B10)
☐ Dry-Season Water Table (C2)
☐ Thin Muck Surface (C7)
☐ Crayfish Burrows (C8)
☐ Saturation Visible on Aerial Imagery (C9)
☐ Shallow Aquitard (D3)
☐ FAC-Neutral Test (D5)

Field Observations:

Surface Water Present? Yes ☐ No ☐ Depth (inches): _____Water Table Present? Yes ☐ No ☐ Depth (inches): _____Saturation Present? (includes capillary fringe) Yes ☐ No ☐ Depth (inches): _____Wetland Hydrology Present? Yes ☐ No ☒

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:

No hydrology indicators observed.

WETLAND DETERMINATION DATA FORM - Arid West Region

Project/Site: 2 Gates/Connection Slough City/County: Bacon Island, San Joaquin Sampling Date: 9/9/08
 Applicant/Owner: Contra Costa Water District State: CA Sampling Point: 22 A
 Investigator(s): T. Mahony, A. Richey Section, Township, Range: T2N R4E sec 22
 Landform (hillslope, terrace, etc.): slight basin Local relief (concave, convex, none): concave Slope (%): 0-2
 Subregion (LRR): C - Mediterranean California Lat: 38° 0' 0.8" Long: 121° 31' 32" Datum: NAD 83

Soil Map Unit Name: Itano silty clay, paritally drained, 0-2% slopes NWI classification: _____
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes ☐ No ☐ (If no, explain in Remarks.)
 Are Vegetation ☐ Soil ☐ or Hydrology ☐ significantly disturbed? Are "Normal Circumstances" present? Yes ☐ No ☐
 Are Vegetation ☒ Soil ☐ or Hydrology ☐ naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes <input checked="" type="radio"/>	No <input type="radio"/>	Is the Sampled Area within a Wetland?	Yes <input type="radio"/> No <input type="radio"/>
Hydric Soil Present?	Yes <input checked="" type="radio"/>	No <input type="radio"/>		
Wetland Hydrology Present?	Yes <input checked="" type="radio"/>	No <input type="radio"/>		
Remarks: <u>Vegetation is very sparse, but ≥5% cover. One plant which is a dominant, was not identifiable at this time, but is most likely a FAC species.</u>				

VEGETATION

Tree Stratum (Use scientific names.)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: <u>2</u> (A) Total Number of Dominant Species Across All Strata: <u>3</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>66</u> % (A/B)																					
1.																									
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Total Cover: _____ %				Prevalence Index worksheet: <table border="1"> <thead> <tr> <th>Total % Cover of:</th> <th>Multiply by:</th> <th></th> </tr> </thead> <tbody> <tr><td>OBL species</td><td>x 1 =</td><td>0</td></tr> <tr><td>FACW species</td><td>x 2 =</td><td>0</td></tr> <tr><td>FAC species</td><td>x 3 =</td><td>0</td></tr> <tr><td>FACU species</td><td>x 4 =</td><td>0</td></tr> <tr><td>UPL species</td><td>x 5 =</td><td>0</td></tr> <tr><td>Column Totals:</td><td>(A)</td><td>0 (B)</td></tr> </tbody> </table> Prevalence Index = B/A = _____	Total % Cover of:	Multiply by:		OBL species	x 1 =	0	FACW species	x 2 =	0	FAC species	x 3 =	0	FACU species	x 4 =	0	UPL species	x 5 =	0	Column Totals:	(A)	0 (B)
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1.																									
2.																									
3.																									
4.																									
5.																									
Total Cover: _____ %																									
Herb Stratum																									
1. <u>Cyperus eragrostis</u>	<u>3</u>	<u>y</u>	<u>FACW</u>	Hydrophytic Vegetation Indicators: <input checked="" type="checkbox"/> Dominance Test is >50% <input type="checkbox"/> Prevalence Index is ≤3.0 ¹ <input type="checkbox"/> Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) <input type="checkbox"/> Problematic Hydrophytic Vegetation ¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology must be present.																					
2. <u>Polygonum arenarium</u>	<u>3</u>	<u>y</u>	<u>NL</u>																						
3. <u>Apocynum sp (?)</u>	<u>3</u>	<u>y</u>	<u>FAC</u>																						
4.																									
5.																									
6.																									
7.																									
8.																									
Total Cover: _____ %																									
Woody Vine Stratum																									
1.																									
2.																									
Total Cover: _____ %																									
% Bare Ground in Herb Stratum <u>91</u> %	% Cover of Biotic Crust _____ %			Hydrophytic Vegetation Present? Yes <input checked="" type="radio"/> No <input type="radio"/>																					
Remarks: <u>In other areas of basin, an Asclepias sp. (possibly A. cortifolia), FAC (or an Apocynum sp., possibly A. cannabinum) FAC</u>																									

SOIL

Sampling Point: 22A

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth (inches)	Matrix		Redox Features		Type ¹	Loc ²	Texture ³	Remarks
	Color (moist)	%	Color (moist)	%				
0-16	10YR 4/2	75	5YR 5/8	25	C	M	Silty clay	

¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix. ²Location: PL=Pore Lining, RC=Root Channel, M=Matrix.³Soil Textures: Clay, Silty Clay, Sandy Clay, Loam, Sandy Clay Loam, Sandy Loam, Clay Loam, Silty Clay Loam, Silt Loam, Silt, Loamy Sand, Sand.

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- ☐ Histosol (A1)
☐ Histic Epipedon (A2)
☐ Black Histic (A3)
☐ Hydrogen Sulfide (A4)
☐ Stratified Layers (A5) (LRR C)
☐ 1 cm Muck (A9) (LRR D)
☐ Depleted Below Dark Surface (A11)
☐ Thick Dark Surface (A12)
☐ Sandy Mucky Mineral (S1)
☐ Sandy Gleyed Matrix (S4)

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☐ Stripped Matrix (S6)
☐ Loamy Mucky Mineral (F1)
☐ Loamy Gleyed Matrix (F2)
☐ Depleted Matrix (F3)
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☐ Redox Depressions (F8)
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Indicators for Problematic Hydric Soils:

- ☐ 1 cm Muck (A9) (LRR C)
☐ 2 cm Muck (A10) (LRR B)
☐ Reduced Vertic (F18)
☐ Red Parent Material (TF2)
☐ Other (Explain in Remarks)

⁴Indicators of hydrophytic vegetation and wetland hydrology must be present.

Restrictive Layer (if present):

Type: _____

Depth (inches): _____

Hydric Soil Present? Yes ☒ No ☐

Remarks:

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (any one indicator is sufficient)

- ☐ Surface Water (A1)
☐ High Water Table (A2)
☐ Saturation (A3)
☐ Water Marks (B1) (Nonriverine)
☒ Sediment Deposits (B2) (Nonriverine)
☐ Drift Deposits (B3) (Nonriverine)
☐ Surface Soil Cracks (B6)
☐ Inundation Visible on Aerial Imagery (B7)
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☐ Presence of Reduced Iron (C4)
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☒ Other (Explain in Remarks)

Secondary Indicators (2 or more required)

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☐ Saturation Visible on Aerial Imagery (C9)
☐ Shallow Aquitard (D3)
☐ FAC-Neutral Test (D5)

Field Observations:

Surface Water Present?

Yes ☐No ☒

Depth (inches): _____

Water Table Present?

Yes ☐No ☒

Depth (inches): _____

Saturation Present?

Yes ☐No ☒

Depth (inches): _____

(includes capillary fringe)

Wetland Hydrology Present? Yes ☒ No ☐

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:

Weak sediment deposits. Large areas of Bare Ground co-incident with break in topography. Hydrology is probably a combo. of direct precipitation, sheet flow, or live seepage

WETLAND DETERMINATION DATA FORM - Arid West Region

Project/Site: 2 Gates/Connection Slough City/County: Bacon Island, San Joaquin Sampling Date: 9/9/08
 Applicant/Owner: Contra Costa Water District State: CA Sampling Point: 228
 Investigator(s): T. Mahony, A. Richey Section, Township, Range: T2N R4E Sec 22
 Landform (hillslope, terrace, etc.): terrace Local relief (concave, convex, none): none Slope (%): 0-2
 Subregion (LRR): C - Mediterranean California Lat: 38° 0' 0.8" Long: 121° 31' 32" Datum: NAD 83
 Soil Map Unit Name: Itano silty clay, paritally drained, 0-2% slopes NWI classification:

Are climatic / hydrologic conditions on the site typical for this time of year? Yes ☒ No ☐ (If no, explain in Remarks.)
 Are Vegetation ☐ Soil ☐ or Hydrology ☐ significantly disturbed? Are "Normal Circumstances" present? Yes ☒ No ☐
 Are Vegetation ☐ Soil ☐ or Hydrology ☐ naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>	Is the Sampled Area within a Wetland?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>
Hydric Soil Present?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>			
Wetland Hydrology Present?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>			
Remarks:					

VEGETATION

Tree Stratum (Use scientific names.)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:	
1.				Number of Dominant Species That Are OBL, FACW, or FAC:	0 (A)
2.				Total Number of Dominant Species Across All Strata:	10 (B)
3.				Percent of Dominant Species That Are OBL, FACW, or FAC:	0 % (A/B)
4.					
Total Cover:			%		
Prevalence Index worksheet:					
Sapling/Shrub Stratum				Total % Cover of:	Multiply by:
1.				OBL species	x 1 = 0
2.				FACW species	x 2 = 0
3.				FAC species	x 3 = 0
4.				FACU species	x 4 = 0
5.				UPL species	x 5 = 0
Total Cover:			%	Column Totals:	(A) 0 (B)
				Prevalence Index = B/A =	
Hydrophytic Vegetation Indicators:					
<input checked="" type="checkbox"/> Dominance Test is >50% <input checked="" type="checkbox"/> Prevalence Index is ≤3.0 ¹ <input type="checkbox"/> Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) <input type="checkbox"/> Problematic Hydrophytic Vegetation ¹ (Explain)					
¹ Indicators of hydric soil and wetland hydrology must be present.					
Hydrophytic Vegetation Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>					
Herb Stratum 1. <u>Bromus diandrus</u> 15 4 NL 2. <u>Lophanthus setiva</u> 10 NL 3. 4. 5. 6. 7. 8. Total Cover: % Woody Vine Stratum 1. 2. Total Cover: % % Bare Ground in Herb Stratum <u>75%</u> % Cover of Biotic Crust % Remarks:					

SOIL

Sampling Point: 22B

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth (inches)	Matrix		Redox Features		Type ¹	Loc ²	Texture ³	Remarks
	Color (moist)	%	Color (moist)	%				
0-16	10YR 4/2	99	10YR 4/6	1	C	m	silty clay	

¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix. ²Location: PL=Pore Lining, RC=Root Channel, M=Matrix.³Soil Textures: Clay, Silty Clay, Sandy Clay, Loam, Sandy Clay Loam, Sandy Loam, Clay Loam, Silty Clay Loam, Silt Loam, Silt, Loamy Sand, Sand.

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)

- | | |
|--|---|
| <input type="checkbox"/> Histosol (A1) | <input type="checkbox"/> Sandy Redox (S5) |
| <input type="checkbox"/> Histic Epipedon (A2) | <input type="checkbox"/> Stripped Matrix (S6) |
| <input type="checkbox"/> Black Histic (A3) | <input type="checkbox"/> Loamy Mucky Mineral (F1) |
| <input type="checkbox"/> Hydrogen Sulfide (A4) | <input type="checkbox"/> Loamy Gleyed Matrix (F2) |
| <input type="checkbox"/> Stratified Layers (A5) (LRR C) | <input type="checkbox"/> Depleted Matrix (F3) |
| <input type="checkbox"/> 1 cm Muck (A9) (LRR D) | <input type="checkbox"/> Redox Dark Surface (F6) |
| <input type="checkbox"/> Depleted Below Dark Surface (A11) | <input type="checkbox"/> Depleted Dark Surface (F7) |
| <input type="checkbox"/> Thick Dark Surface (A12) | <input type="checkbox"/> Redox Depressions (F8) |
| <input type="checkbox"/> Sandy Mucky Mineral (S1) | <input type="checkbox"/> Vernal Pools (F9) |
| <input type="checkbox"/> Sandy Gleyed Matrix (S4) | |

Indicators for Problematic Hydric Soils:⁴

- | |
|---|
| <input type="checkbox"/> 1 cm Muck (A9) (LRR C) |
| <input type="checkbox"/> 2 cm Muck (A10) (LRR B) |
| <input type="checkbox"/> Reduced Vertic (F18) |
| <input type="checkbox"/> Red Parent Material (TF2) |
| <input type="checkbox"/> Other (Explain in Remarks) |

⁴Indicators of hydrophytic vegetation and wetland hydrology must be present.

Restrictive Layer (if present):

Type: _____

Depth (inches): _____

Hydric Soil Present? Yes ☐ No ☒Remarks: No soils indicators observed

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (any one indicator is sufficient)

- | | |
|--|--|
| <input type="checkbox"/> Surface Water (A1) | <input type="checkbox"/> Salt Crust (B11) |
| <input type="checkbox"/> High Water Table (A2) | <input type="checkbox"/> Biotic Crust (B12) |
| <input type="checkbox"/> Saturation (A3) | <input type="checkbox"/> Aquatic Invertebrates (B13) |
| <input type="checkbox"/> Water Marks (B1) (Nonriverine) | <input type="checkbox"/> Hydrogen Sulfide Odor (C1) |
| <input type="checkbox"/> Sediment Deposits (B2) (Nonriverine) | <input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3) |
| <input type="checkbox"/> Drift Deposits (B3) (Nonriverine) | <input type="checkbox"/> Presence of Reduced Iron (C4) |
| <input type="checkbox"/> Surface Soil Cracks (B6) | <input type="checkbox"/> Recent Iron Reduction in Plowed Soils (C6) |
| <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7) | <input type="checkbox"/> Other (Explain in Remarks) |
| <input type="checkbox"/> Water-Stained Leaves (B9) | |

Secondary Indicators (2 or more required)

- | |
|--|
| <input type="checkbox"/> Water Marks (B1) (Riverine) |
| <input type="checkbox"/> Sediment Deposits (B2) (Riverine) |
| <input type="checkbox"/> Drift Deposits (B3) (Riverine) |
| <input type="checkbox"/> Drainage Patterns (B10) |
| <input type="checkbox"/> Dry-Season Water Table (C2) |
| <input type="checkbox"/> Thin Muck Surface (C7) |
| <input type="checkbox"/> Crayfish Burrows (C8) |
| <input type="checkbox"/> Saturation Visible on Aerial Imagery (C9) |
| <input type="checkbox"/> Shallow Aquitard (D3) |
| <input type="checkbox"/> FAC-Neutral Test (D5) |

Field Observations:

Surface Water Present? Yes ☐ No ☐ Depth (inches): _____Water Table Present? Yes ☐ No ☐ Depth (inches): _____Saturation Present? Yes ☐ No ☐ Depth (inches): _____
(includes capillary fringe)Wetland Hydrology Present? Yes ☐ No ☒

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks: No hydrology indicators observed

WETLAND DETERMINATION DATA FORM - Arid West Region

Project/Site: 2 Gates/Connection Slough City/County: Bacon Island, San Joaquin Sampling Date: 9/9/08
 Applicant/Owner: Contra Costa Water District State: CA Sampling Point: 23 A
 Investigator(s): T. Mahony, A. Richey Section, Township, Range: T2N R4E Sec 22
 Landform (hillslope, terrace, etc.): hummocky basin Local relief (concave, convex, none): hummock Slope (%): 0-2
 Subregion (LRR): C - Mediterranean California Lat: 38° 0' 2.4" Long: 121° 31' 33" Datum: NAD 83
 Soil Map Unit Name: Itano silty clay, paritally drained, 0-2% slopes NWI classification: _____

Are climatic / hydrologic conditions on the site typical for this time of year? Yes ☒ No ☐ (If no, explain in Remarks.)
 Are Vegetation ☐ Soil ☐ or Hydrology ☐ significantly disturbed? Are "Normal Circumstances" present? Yes ☒ No ☐
 Are Vegetation ☐ Soil ☐ or Hydrology ☐ naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	Is the Sampled Area within a Wetland?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Hydric Soil Present?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>		
Wetland Hydrology Present?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>		
Remarks:				

VEGETATION

Tree Stratum (Use scientific names.)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:		
1. _____				Number of Dominant Species That Are OBL, FACW, or FAC:	<u>2</u>	(A)
2. _____				Total Number of Dominant Species Across All Strata:	<u>2</u>	(B)
3. _____				Percent of Dominant Species That Are OBL, FACW, or FAC:	<u>100</u> %	(A/B)
4. _____				Total Cover: _____ %		
Sapling/Shrub Stratum				Prevalence Index worksheet:		
1. _____				Total % Cover of:	Multiply by:	
2. _____				OBL species	x 1 =	0
3. _____				FACW species	x 2 =	0
4. _____				FAC species	x 3 =	0
5. _____				FACU species	x 4 =	0
Total Cover: _____ %				UPL species	x 5 =	0
Herb Stratum				Column Totals:	(A)	0 (B)
1. <u>Cynodon dactylon</u>	<u>25</u>	<u>Y</u>	<u>FAC</u>	Prevalence Index = B/A = _____		
2. <u>Cyperus eragrostis</u>	<u>5</u>	<u>N</u>	<u>FACW</u>	Hydrophytic Vegetation Indicators:		
3. <u>Vulpia bromoides</u>	<u>25</u>	<u>Y</u>	<u>FACW</u>	<input checked="" type="checkbox"/> Dominance Test is >50%		
4. <u>Raphanus sativa</u>	<u>5</u>		<u>NL</u>	<input checked="" type="checkbox"/> Prevalence Index is ≤3.0 ¹		
5. _____				<input type="checkbox"/> Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)		
6. _____				<input type="checkbox"/> Problematic Hydrophytic Vegetation ¹ (Explain)		
7. _____				¹ Indicators of hydric soil and wetland hydrology must be present.		
8. _____				Total Cover: _____ %		
Woody Vine Stratum				Hydrophytic Vegetation Present?		
1. _____				Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>		
2. _____				Total Cover: _____ %		
% Bare Ground in Herb Stratum <u>40</u> %				% Cover of Biotic Crust _____ %		

Remarks:

SOIL

Sampling Point: 23A

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth (inches)	Matrix		Redox Features		Type ¹	Loc ²	Texture ³	Remarks
	Color (moist)	%	Color (moist)	%				
0-16	10YR 2/1	85	5YR 4/6 5/8	15	C	M	silt loam	

¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix. ²Location: PL=Pore Lining, RC=Root Channel, M=Matrix.³Soil Textures: Clay, Silty Clay, Sandy Clay, Loam, Sandy Clay Loam, Sandy Loam, Clay Loam, Silty Clay Loam, Silt Loam, Silt, Loamy Sand, Sand.

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)

- ☐ Histosol (A1)
☐ Histic Epipedon (A2)
☐ Black Histic (A3)
☐ Hydrogen Sulfide (A4)
☐ Stratified Layers (A5) (LRR C)
☐ 1 cm Muck (A9) (LRR D)
☐ Depleted Below Dark Surface (A11)
☐ Thick Dark Surface (A12)
☐ Sandy Mucky Mineral (S1)
☐ Sandy Gleyed Matrix (S4)

- ☐ Sandy Redox (S5)
☐ Stripped Matrix (S6)
☐ Loamy Mucky Mineral (F1)
☐ Loamy Gleyed Matrix (F2)
☐ Depleted Matrix (F3)
☒ Redox Dark Surface (F6)
☐ Depleted Dark Surface (F7)
☐ Redox Depressions (F8)
☐ Vernal Pools (F9)

Indicators for Problematic Hydric Soils:⁴

- ☐ 1 cm Muck (A9) (LRR C)
☐ 2 cm Muck (A10) (LRR B)
☐ Reduced Vertic (F18)
☐ Red Parent Material (TF2)
☐ Other (Explain in Remarks)

⁴Indicators of hydrophytic vegetation and wetland hydrology must be present.

Restrictive Layer (if present):

Type: _____
 Depth (inches): _____

Hydric Soil Present? Yes ☒ No ☐

Remarks:

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (any one indicator is sufficient)

- ☐ Surface Water (A1)
☐ High Water Table (A2)
☐ Saturation (A3)
☐ Water Marks (B1) (Nonriverine)
☐ Sediment Deposits (B2) (Nonriverine)
☐ Drift Deposits (B3) (Nonriverine)
☐ Surface Soil Cracks (B6)
☐ Inundation Visible on Aerial Imagery (B7)
☐ Water-Stained Leaves (B9)
☐ Salt Crust (B11)
☐ Biotic Crust (B12)
☐ Aquatic Invertebrates (B13)
☐ Hydrogen Sulfide Odor (C1)
☒ Oxidized Rhizospheres along Living Roots (C3)
☐ Presence of Reduced Iron (C4)
☐ Recent Iron Reduction in Plowed Soils (C6)
☒ Other (Explain in Remarks)

Secondary Indicators (2 or more required)

- ☐ Water Marks (B1) (Riverine)
☐ Sediment Deposits (B2) (Riverine)
☐ Drift Deposits (B3) (Riverine)
☐ Drainage Patterns (B10)
☐ Dry-Season Water Table (C2)
☐ Thin Muck Surface (C7)
☐ Crayfish Burrows (C8)
☐ Saturation Visible on Aerial Imagery (C9)
☐ Shallow Aquitard (D3)
☐ FAC-Neutral Test (D5)

Field Observations:

Surface Water Present? Yes ☐ No ☒ Depth (inches): _____
 Water Table Present? Yes ☐ No ☒ Depth (inches): _____
 Saturation Present? (includes capillary fringe) Yes ☐ No ☒ Depth (inches): _____

Wetland Hydrology Present? Yes ☒ No ☐

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks: *other: bare grounds "scald" area. Groundwater seepage seems important here.*

WETLAND DETERMINATION DATA FORM - Arid West Region

Project/Site: 2 Gates/Connection Slough City/County: Bacon Island, San Joaquin Sampling Date: 9/9/08
 Applicant/Owner: Contra Costa Water District State: CA Sampling Point: 23B
 Investigator(s): T. Mahony, A. Richey Section, Township, Range: T2N R4E Sec 22
 Landform (hillslope, terrace, etc.): terrace Local relief (concave, convex, none): hummock Slope (%): 0-2
 Subregion (LRR): C - Mediterranean California Lat: 38° 0' 2.4" Long: 121° 31' 33" Datum: NAD 83
 Soil Map Unit Name: Itano silty clay, partially drained, 0-2% slopes NWI classification: _____

Are climatic / hydrologic conditions on the site typical for this time of year? Yes ☒ No ☐ (If no, explain in Remarks.)
 Are Vegetation ☐ Soil ☐ or Hydrology ☐ significantly disturbed? Are "Normal Circumstances" present? Yes ☐ No ☐
 Are Vegetation ☐ Soil ☐ or Hydrology ☐ naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	Is the Sampled Area within a Wetland?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>
Hydric Soil Present?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>			
Wetland Hydrology Present?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>			
Remarks: <u>Area seems to be a compacted area w/ fire tracks</u>					

VEGETATION

Tree Stratum (Use scientific names.)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:	
1. _____				Number of Dominant Species That Are OBL, FACW, or FAC:	<u>1</u> (A)
2. _____				Total Number of Dominant Species Across All Strata:	<u>1</u> (B)
3. _____				Percent of Dominant Species That Are OBL, FACW, or FAC:	<u>100</u> % (A/B)
4. _____					
Total Cover: _____ %					
Sapling/Shrub Stratum				Prevalence Index worksheet:	
1. _____				Total % Cover of:	Multiply by:
2. _____				OBL species	x 1 = <u>0</u>
3. _____				FACW species	x 2 = <u>0</u>
4. _____				FAC species	x 3 = <u>0</u>
5. _____				FACU species	x 4 = <u>0</u>
Total Cover: _____ %				UPL species	x 5 = <u>0</u>
				Column Totals:	(A) <u>0</u> (B)
				Prevalence Index = B/A = _____	
Herb Stratum				Hydrophytic Vegetation Indicators:	
1. <u>Cynodon dactylon</u>	<u>95</u>	<u>y</u>	<u>FAC</u>	Dominance Test is >50% <input type="checkbox"/>	
2. _____				Prevalence Index is ≤3.0 ¹ <input type="checkbox"/>	
3. _____				<input type="checkbox"/> Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)	
4. _____				<input type="checkbox"/> Problematic Hydrophytic Vegetation ¹ (Explain)	
5. _____					
6. _____					
7. _____					
8. _____					
Total Cover: _____ %				¹ Indicators of hydric soil and wetland hydrology must be present.	
Woody Vine Stratum				Hydrophytic Vegetation Present?	
1. _____				Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
2. _____					
Total Cover: _____ %					
% Bare Ground in Herb Stratum <u>5</u> %			% Cover of Biotic Crust _____ %		
Remarks:					

SOIL

Sampling Point: 23B

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)								
Depth (inches)	Matrix		Redox Features		Type ¹	Loc ²	Texture ³	Remarks
	Color (moist)	%	Color (moist)	%				
0-16	10YR 3/2	99	10YR 4/6	<1	C	M	silty clay loam	

¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix. ²Location: PL=Pore Lining, RC=Root Channel, M=Matrix.
³Soil Textures: Clay, Silty Clay, Sandy Clay, Loam, Sandy Clay Loam, Sandy Loam, Clay Loam, Silty Clay Loam, Silt Loam, Silt, Loamy Sand, Sand.

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)

<input type="checkbox"/> Histosol (A1)	<input type="checkbox"/> Sandy Redox (S5)	Indicators for Problematic Hydric Soils:⁴
<input type="checkbox"/> Histic Epipedon (A2)	<input type="checkbox"/> Stripped Matrix (S6)	
<input type="checkbox"/> Black Histic (A3)	<input type="checkbox"/> Loamy Mucky Mineral (F1)	
<input type="checkbox"/> Hydrogen Sulfide (A4)	<input type="checkbox"/> Loamy Gleyed Matrix (F2)	
<input type="checkbox"/> Stratified Layers (A5) (LRR C)	<input type="checkbox"/> Depleted Matrix (F3)	
<input type="checkbox"/> 1 cm Muck (A9) (LRR D)	<input type="checkbox"/> Redox Dark Surface (F6)	
<input type="checkbox"/> Depleted Below Dark Surface (A11)	<input type="checkbox"/> Depleted Dark Surface (F7)	
<input type="checkbox"/> Thick Dark Surface (A12)	<input type="checkbox"/> Redox Depressions (F8)	
<input type="checkbox"/> Sandy Mucky Mineral (S1)	<input type="checkbox"/> Vernal Pools (F9)	
<input type="checkbox"/> Sandy Gleyed Matrix (S4)		

⁴Indicators of hydrophytic vegetation and wetland hydrology must be present.

Restrictive Layer (if present):

Type: _____

Depth (inches): _____

Hydric Soil Present? Yes ☐ No ☒

Remarks: *no soils indicators present. soils more compacted with a restrictive layer about 12 inches below surface*

HYDROLOGY

Wetland Hydrology Indicators:				Secondary Indicators (2 or more required)	
Primary Indicators (any one indicator is sufficient)					
<input type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Salt Crust (B11)	<input type="checkbox"/> Water Marks (B1) (Riverine)			
<input type="checkbox"/> High Water Table (A2)	<input type="checkbox"/> Biotic Crust (B12)	<input type="checkbox"/> Sediment Deposits (B2) (Riverine)			
<input type="checkbox"/> Saturation (A3)	<input type="checkbox"/> Aquatic Invertebrates (B13)	<input type="checkbox"/> Drift Deposits (B3) (Riverine)			
<input type="checkbox"/> Water Marks (B1) (Nonriverine)	<input type="checkbox"/> Hydrogen Sulfide Odor (C1)	<input type="checkbox"/> Drainage Patterns (B10)			
<input type="checkbox"/> Sediment Deposits (B2) (Nonriverine)	<input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3)	<input type="checkbox"/> Dry-Season Water Table (C2)			
<input type="checkbox"/> Drift Deposits (B3) (Nonriverine)	<input type="checkbox"/> Presence of Reduced Iron (C4)	<input type="checkbox"/> Thin Muck Surface (C7)			
<input type="checkbox"/> Surface Soil Cracks (B6)	<input type="checkbox"/> Recent Iron Reduction in Plowed Soils (C6)	<input type="checkbox"/> Crayfish Burrows (C8)			
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)	<input type="checkbox"/> Other (Explain in Remarks)	<input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)			
<input type="checkbox"/> Water-Stained Leaves (B9)		<input type="checkbox"/> Shallow Aquitard (D3)			
		<input type="checkbox"/> FAC-Neutral Test (D5)			
Field Observations:					
Surface Water Present?	Yes <input type="radio"/> No <input type="radio"/>	Depth (inches):			
Water Table Present?	Yes <input type="radio"/> No <input type="radio"/>	Depth (inches):			
Saturation Present?	Yes <input type="radio"/> No <input type="radio"/>	Depth (inches):			
(includes capillary fringe)				Wetland Hydrology Present? Yes <input type="radio"/> No <input checked="" type="radio"/>	
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:					
Remarks: <i>no hydrology indicators present. compacted soils may be preventing groundwater seepage in this area.</i>					

WETLAND DETERMINATION DATA FORM - Arid West Region

Project/Site: 2 Gates/Connection Slough City/County: Bacon Island, San Joaquin Sampling Date: 9/9/08
 Applicant/Owner: Contra Costa Water District State: CA Sampling Point: 24A
 Investigator(s): T. Mahony, A. Richey Section, Township, Range: T2N R4E Sec 22
 Landform (hillslope, terrace, etc.): hummocky basin Local relief (concave, convex, none): slight concave Slope (%): 0-2
 Subregion (LRR): C - Mediterranean California Lat: 38° 0' 2.6" Long: 121° 31' 32.5" Datum: NAD 83
 Soil Map Unit Name: Itano silty clay, paritally drained, 0-2% slopes NWI classification: _____

Are climatic / hydrologic conditions on the site typical for this time of year? Yes ☒ No ☐ (If no, explain in Remarks.)
 Are Vegetation ☐ Soil ☐ or Hydrology ☐ significantly disturbed? Are "Normal Circumstances" present? Yes ☒ No ☐
 Are Vegetation ☐ Soil ☐ or Hydrology ☐ naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	Is the Sampled Area within a Wetland?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
Hydric Soil Present?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>			
Wetland Hydrology Present?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>			
Remarks:					

VEGETATION

Tree Stratum (Use scientific names.)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:	
1. _____				Number of Dominant Species That Are OBL, FACW, or FAC:	<u>28</u> (A)
2. _____				Total Number of Dominant Species Across All Strata:	<u>28</u> (B)
3. _____				Percent of Dominant Species That Are OBL, FACW, or FAC:	<u>100</u> % (A/B)
4. _____				Prevalence Index worksheet:	
Total Cover: _____ %				Total % Cover of:	Multiply by:
Sapling/Shrub Stratum				OBL species	x 1 = 0
1. _____				FACW species	x 2 = 0
2. _____				FAC species	x 3 = 0
3. _____				FACU species	x 4 = 0
4. _____				UPL species	x 5 = 0
5. _____				Column Totals:	(A) 0 (B)
Total Cover: _____ %				Prevalence Index = B/A = _____	
Herb Stratum				Hydrophytic Vegetation Indicators:	
1. <u>Vulpia bromoides</u>	<u>15</u>	<u>y</u>	<u>FACW</u>	<input checked="" type="checkbox"/> Dominance Test is >50%	
2. <u>Cynodon dactylon</u>	<u>20</u>	<u>y</u>	<u>FAC</u>	<input checked="" type="checkbox"/> Prevalence Index is ≤3.0 ¹	
3. <u>Convolvulus arvensis</u>	<u>53</u>		<u>NL</u>	<input type="checkbox"/> Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)	
4. <u>Polygonum arenastrum</u>	<u>2</u>			<input type="checkbox"/> Problematic Hydrophytic Vegetation ¹ (Explain)	
5. _____				¹ Indicators of hydric soil and wetland hydrology must be present.	
6. _____				Hydrophytic Vegetation Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	
7. _____					
8. _____					
Total Cover: _____ %					
Woody Vine Stratum					
1. _____					
2. _____					
Total Cover: _____ %					
% Bare Ground in Herb Stratum <u>60</u> %				% Cover of Biotic Crust _____ %	
Remarks:					

Sampling Point: 208 A

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

[illegible]

¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix. ²Location: PL=Pore Lining, RC=Root Channel, M=Matrix.

³Soil Textures: Clay, Silty Clay, Sandy Clay, Loam, Sandy Clay Loam, Sandy Loam, Clay Loam, Silty Clay Loam, Silt Loam, Silt, Loamy Sand, Sand.

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)

- | | | | |
|--------------------------|---|-------------------------------------|----------------------------|
| <input type="checkbox"/> | Histosol (A1) | <input type="checkbox"/> | Sandy Redox (S5) |
| <input type="checkbox"/> | Histic Epipedon (A2) | <input type="checkbox"/> | Stripped Matrix (S6) |
| <input type="checkbox"/> | Black Histic (A3) | <input type="checkbox"/> | Loamy Mucky Mineral (F1) |
| <input type="checkbox"/> | Hydrogen Sulfide (A4) | <input type="checkbox"/> | Loamy Gleyed Matrix (F2) |
| <input type="checkbox"/> | Stratified Layers (A5) (LRR C) | <input type="checkbox"/> | Depleted Matrix (F3) |
| <input type="checkbox"/> | 1 cm Muck (A9) (LRR D) | <input checked="" type="checkbox"/> | Redox Dark Surface (F6) |
| <input type="checkbox"/> | Depleted Below Dark Surface (A11) | <input type="checkbox"/> | Depleted Dark Surface (F7) |
| <input type="checkbox"/> | Thick Dark Surface (A12) | <input type="checkbox"/> | Redox Depressions (F8) |
| <input type="checkbox"/> | Sandy Mucky Mineral (S1) | <input type="checkbox"/> | Vernal Pools (F9) |
| <input type="checkbox"/> | Sandy Gleyed Matrix (S4) | | |

Indicators for Problematic Hydric Soils:⁴

- ☐ 1 cm Muck (A9) (**LRR C**)
☐ 2 cm Muck (A10) (**LRR B**)
☐ Reduced Vertic (F18)
☐ Red Parent Material (TF2)
☐ Other (Explain in Remarks)

⁴Indicators of hydrophytic vegetation and wetland hydrology must be present.

Restrictive Layer (if present):

Type: _____

Depth (inches): _____

Hydric Soil Present? Yes ☒ No ☐

Remarks:

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (any one indicator is sufficient)

- | | |
|---|---|
| <input type="checkbox"/> Surface Water (A1) | <input type="checkbox"/> Salt Crust (B11) |
| <input type="checkbox"/> High Water Table (A2) | <input type="checkbox"/> Biotic Crust (B12) |
| <input type="checkbox"/> Saturation (A3) | <input type="checkbox"/> Aquatic Invertebrates (B13) |
| <input type="checkbox"/> Water Marks (B1) (Nonriverine) | <input type="checkbox"/> Hydrogen Sulfide Odor (C1) |
| <input checked="" type="checkbox"/> Sediment Deposits (B2) (Nonriverine) | <input checked="" type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3) |
| <input type="checkbox"/> Drift Deposits (B3) (Nonriverine) | <input type="checkbox"/> Presence of Reduced Iron (C4) |
| <input type="checkbox"/> Surface Soil Cracks (B6) | <input type="checkbox"/> Recent Iron Reduction in Plowed Soils (C6) |
| <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7) | <input checked="" type="checkbox"/> Other (Explain in Remarks) |
| <input type="checkbox"/> Water-Stained Leaves (B9) | |

Secondary Indicators (2 or more required)

- ☐ Water Marks (B1) (**Riverine**)
- ☐ Sediment Deposits (B2) (**Riverine**)
- ☐ Drift Deposits (B3) (**Riverine**)
- ☐ Drainage Patterns (B10)
- ☐ Dry-Season Water Table (C2)
- ☐ Thin Muck Surface (C7)
- ☐ Crayfish Burrows (C8)
- ☐ Saturation Visible on Aerial Imagery (C9)
- ☐ Shallow Aquitard (D3)
- ☐ FAC-Neutral Test (D5)

Field Observations:

Surface Water Present? Yes ☐ No ☒ Depth (inches):

Water Table Present? Yes ☐ No ☒ Depth (inches):

Saturation Present? Yes ☐ No ☒ Depth (inches):
(includes capillary fringe)

Wetland Hydrology Present? Yes ☐ No ☐

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:

Bare areas indicative of ponding conditions

WETLAND DETERMINATION DATA FORM - Arid West Region

Project/Site: 2 Gates/Connection Slough City/County: Bacon Island, San Joaquin Sampling Date: 9/9/08
 Applicant/Owner: Contra Costa Water District State: CA Sampling Point: 24.8
 Investigator(s): T. Mahony, A. Richey Section, Township, Range: T2N R4E Sec22
 Landform (hillslope, terrace, etc.): hummock Local relief (concave, convex, none): convex Slope (%): 0-2
 Subregion (LRR): C - Mediterranean California Lat: 38° 0' 2.6" Long: 121° 31' 32.5" Datum: NAD 83
 Soil Map Unit Name: Itano silty clay, paritally drained, 0-2% slopes NWI classification: _____

Are climatic / hydrologic conditions on the site typical for this time of year? Yes ☒ No ☐ (If no, explain in Remarks.)
 Are Vegetation ☐ Soil ☐ or Hydrology ☐ significantly disturbed? Are "Normal Circumstances" present? Yes ☒ No ☐
 Are Vegetation ☐ Soil ☐ or Hydrology ☐ naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>	Is the Sampled Area within a Wetland?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>
Hydric Soil Present?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>			
Wetland Hydrology Present?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>			
Remarks:					

VEGETATION

Tree Stratum (Use scientific names.)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:	
1. _____				Number of Dominant Species That Are OBL, FACW, or FAC:	0 (A)
2. _____				Total Number of Dominant Species Across All Strata:	2 (B)
3. _____				Percent of Dominant Species That Are OBL, FACW, or FAC:	0 % (A/B)
4. _____					
Total Cover: _____ %					
Sapling/Shrub Stratum				Prevalence Index worksheet:	
1. _____				Total % Cover of:	Multiply by:
2. _____				OBL species	x 1 = 0
3. _____				FACW species	x 2 = 0
4. _____				FAC species	x 3 = 0
5. _____				FACU species	x 4 = 0
Total Cover: _____ %				UPL species	x 5 = 0
Herb Stratum				Column Totals:	(A) 0 (B)
1. <u>Bromus diandrus</u>	<u>40</u>	<u>Y</u>	<u>NL</u>	Prevalence Index = B/A =	
2. <u>Convolvulus arvensis</u>	<u>30</u>	<u>Y</u>	<u>NL</u>		
3. <u>Raphanus sativa</u>	<u>5</u>		<u>NL</u>		
4. <u>Polygonum arenastrum</u>	<u>15</u>		<u>NL</u>		
5. _____					
6. _____					
7. _____					
8. _____					
Total Cover: _____ %					
Woody Vine Stratum				Hydrophytic Vegetation Indicators:	
1. _____				Dominance Test is >50%	
2. _____				Prevalence Index is ≤3.0 ¹	
Total Cover: _____ %				<input type="checkbox"/> Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)	
% Bare Ground in Herb Stratum <u>10</u> %				<input type="checkbox"/> Problematic Hydrophytic Vegetation ¹ (Explain)	
% Cover of Biotic Crust _____ %				¹ Indicators of hydric soil and wetland hydrology must be present.	
Remarks:				Hydrophytic Vegetation Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	

Sampling Point: 24B

[illegible]

Wetland Hydrology Indicators:			Secondary Indicators (2 or more required)	
Primary Indicators (any one indicator is sufficient)				
<input type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Salt Crust (B11)	<input type="checkbox"/> Water Marks (B1) (Riverine)		
<input type="checkbox"/> High Water Table (A2)	<input type="checkbox"/> Biotic Crust (B12)	<input type="checkbox"/> Sediment Deposits (B2) (Riverine)		
<input type="checkbox"/> Saturation (A3)	<input type="checkbox"/> Aquatic Invertebrates (B13)	<input type="checkbox"/> Drift Deposits (B3) (Riverine)		
<input type="checkbox"/> Water Marks (B1) (Nonriverine)	<input type="checkbox"/> Hydrogen Sulfide Odor (C1)	<input type="checkbox"/> Drainage Patterns (B10)		
<input type="checkbox"/> Sediment Deposits (B2) (Nonriverine)	<input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3)	<input type="checkbox"/> Dry-Season Water Table (C2)		
<input type="checkbox"/> Drift Deposits (B3) (Nonriverine)	<input type="checkbox"/> Presence of Reduced Iron (C4)	<input type="checkbox"/> Thin Muck Surface (C7)		
<input type="checkbox"/> Surface Soil Cracks (B6)	<input type="checkbox"/> Recent Iron Reduction in Plowed Soils (C6)	<input type="checkbox"/> Crayfish Burrows (C8)		
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)	<input type="checkbox"/> Other (Explain in Remarks)	<input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)		
<input type="checkbox"/> Water-Stained Leaves (B9)		<input type="checkbox"/> Shallow Aquitard (D3)		
		<input type="checkbox"/> FAC-Neutral Test (D5)		
Field Observations:				
Surface Water Present?	Yes <input type="radio"/> No <input type="radio"/>	Depth (inches): _____		
Water Table Present?	Yes <input type="radio"/> No <input type="radio"/>	Depth (inches): _____		
Saturation Present? (includes capillary fringe)	Yes <input type="radio"/> No <input type="radio"/>	Depth (inches): _____		
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:			Wetland Hydrology Present? Yes <input type="radio"/> No <input checked="" type="radio"/>	
Remarks: <i>no hydrology indicators present</i>				

WETLAND DETERMINATION DATA FORM - Arid West Region

Project/Site: 2 Gates/Connection Slough City/County: Bacon Island, San Joaquin Sampling Date: 9/9/08
 Applicant/Owner: Contra Costa Water District State: CA Sampling Point: 25A
 Investigator(s): T. Mahony, A. Richey Section, Township, Range: 72N R4E sec 22
 Landform (hillslope, terrace, etc.): basin Local relief (concave, convex, none): concave Slope (%): 0-2
 Subregion (LRR): C - Mediterranean California Lat: 38° 0' 2.6" Long: 121° 31' 31.5" Datum: NAD 83
 Soil Map Unit Name: Itano silty clay, paritally drained, 0-2% slopes NWI classification: _____

Are climatic / hydrologic conditions on the site typical for this time of year? Yes ☒ No ☐ (If no, explain in Remarks.)
 Are Vegetation ☐ Soil ☐ or Hydrology ☐ significantly disturbed? Are "Normal Circumstances" present? Yes ☒ No ☐
 Are Vegetation ☒ Soil ☐ or Hydrology ☐ naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	Is the Sampled Area within a Wetland?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Hydric Soil Present?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>		
Wetland Hydrology Present?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>		
Remarks:				

VEGETATION

Tree Stratum (Use scientific names.)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:		
1. _____				Number of Dominant Species That Are OBL, FACW, or FAC: <u>10</u> (A)		
2. _____				Total Number of Dominant Species Across All Strata: <u>10</u> (B)		
3. _____				Percent of Dominant Species That Are OBL, FACW, or FAC: <u>100</u> % (A/B)		
4. _____				Prevalence Index worksheet:		
Total Cover: _____ %				Total % Cover of: _____ Multiply by:		
Sapling/Shrub Stratum				OBL species x 1 = <u>0</u>		
1. _____				FACW species x 2 = <u>0</u>		
2. _____				FAC species x 3 = <u>0</u>		
3. _____				FACU species x 4 = <u>0</u>		
4. _____				UPL species x 5 = <u>0</u>		
5. _____				Column Totals: (A) <u>0</u> (B) <u>0</u>		
Total Cover: _____ %				Prevalence Index = B/A = _____		
Herb Stratum				Hydrophytic Vegetation Indicators:		
1. <u>Vulpia bromoides</u>	<u>80</u>	<u>y</u>	<u>FACW</u>	<input checked="" type="checkbox"/> Dominance Test is >50%		
2. <u>Hordeum maritimum</u>	<u>10</u>	<u>NI</u>		<input checked="" type="checkbox"/> Prevalence Index is ≤3.0 ¹		
3. _____				<input type="checkbox"/> Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)		
4. _____				<input type="checkbox"/> Problematic Hydrophytic Vegetation ¹ (Explain)		
5. _____				¹ Indicators of hydric soil and wetland hydrology must be present.		
6. _____				Hydrophytic Vegetation Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>		
7. _____						
8. _____						
Total Cover: _____ %						
Woody Vine Stratum						
1. _____						
2. _____						
Total Cover: _____ %						
% Bare Ground in Herb Stratum <u>10</u> % % Cover of Biotic Crust _____ %						

Remarks: Vegetation community is naturally problematic. Strong thatch layer of Vulpia bromoides & Hordeum maritimum. Currently, in driest part of year, dominant is Convolvulus arvensis. There has been a seasonal community shift to upland spp. Some Raphanus sativa and Cirsium vulgare present.

SOIL

Sampling Point: 25A

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)							
Depth (inches)	Matrix		Redox Features			Texture ³	Remarks
	Color (moist)	%	Color (moist)	%	Type ¹		
0-16	10 YR 3/2	75	10YR 4/6	25	C	m	Silty clay loam

¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix. ²Location: PL=Pore Lining, RC=Root Channel, M=Matrix.
³Soil Textures: Clay, Silty Clay, Sandy Clay, Loam, Sandy Clay Loam, Sandy Loam, Clay Loam, Silty Clay Loam, Silt Loam, Silt, Loamy Sand, Sand.

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)

<input type="checkbox"/> Histosol (A1)	<input type="checkbox"/> Sandy Redox (S5)
<input type="checkbox"/> Histic Epipedon (A2)	<input type="checkbox"/> Stripped Matrix (S6)
<input type="checkbox"/> Black Histic (A3)	<input type="checkbox"/> Loamy Mucky Mineral (F1)
<input type="checkbox"/> Hydrogen Sulfide (A4)	<input type="checkbox"/> Loamy Gleyed Matrix (F2)
<input type="checkbox"/> Stratified Layers (A5) (LRR C)	<input type="checkbox"/> Depleted Matrix (F3)
<input type="checkbox"/> 1 cm Muck (A9) (LRR D)	<input checked="" type="checkbox"/> Redox Dark Surface (F6)
<input type="checkbox"/> Depleted Below Dark Surface (A11)	<input type="checkbox"/> Depleted Dark Surface (F7)
<input type="checkbox"/> Thick Dark Surface (A12)	<input type="checkbox"/> Redox Depressions (F8)
<input type="checkbox"/> Sandy Mucky Mineral (S1)	<input type="checkbox"/> Vernal Pools (F9)
<input type="checkbox"/> Sandy Gleyed Matrix (S4)	

Indicators for Problematic Hydric Soils:⁴

- ☐ 1 cm Muck (A9) (**LRR C**)
- ☐ 2 cm Muck (A10) (**LRR B**)
- ☐ Reduced Vertic (F18)
- ☐ Red Parent Material (TF2)
- ☐ Other (Explain in Remarks)

⁴Indicators of hydrophytic vegetation and wetland hydrology must be present.

Restrictive Layer (if present): Type: _____ Depth (inches): _____	Hydric Soil Present? Yes <input checked="" type="radio"/> No <input type="radio"/>
Remarks: Very strong redox	

HYDROLOGY

Wetland Hydrology Indicators:			Secondary Indicators (2 or more required)	
Primary Indicators (any one indicator is sufficient)				
<input type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Salt Crust (B11)	<input type="checkbox"/> Water Marks (B1) (Riverine)		
<input type="checkbox"/> High Water Table (A2)	<input type="checkbox"/> Biotic Crust (B12)	<input type="checkbox"/> Sediment Deposits (B2) (Riverine)		
<input type="checkbox"/> Saturation (A3)	<input type="checkbox"/> Aquatic Invertebrates (B13)	<input type="checkbox"/> Drift Deposits (B3) (Riverine)		
<input type="checkbox"/> Water Marks (B1) (Nonriverine)	<input type="checkbox"/> Hydrogen Sulfide Odor (C1)	<input type="checkbox"/> Drainage Patterns (B10)		
<input type="checkbox"/> Sediment Deposits (B2) (Nonriverine)	<input checked="" type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3)	<input type="checkbox"/> Dry-Season Water Table (C2)		
<input type="checkbox"/> Drift Deposits (B3) (Nonriverine)	<input type="checkbox"/> Presence of Reduced Iron (C4)	<input type="checkbox"/> Thin Muck Surface (C7)		
<input type="checkbox"/> Surface Soil Cracks (B6)	<input type="checkbox"/> Recent Iron Reduction in Plowed Soils (C6)	<input type="checkbox"/> Crayfish Burrows (C8)		
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)	<input type="checkbox"/> Other (Explain in Remarks)	<input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)		
<input type="checkbox"/> Water-Stained Leaves (B9)		<input type="checkbox"/> Shallow Aquitard (D3)		
		<input type="checkbox"/> FAC-Neutral Test (D5)		
Field Observations:				
Surface Water Present?	Yes <input type="radio"/> No <input checked="" type="radio"/>	Depth (inches):		
Water Table Present?	Yes <input type="radio"/> No <input checked="" type="radio"/>	Depth (inches):		
Saturation Present? (includes capillary fringe)	Yes <input type="radio"/> No <input checked="" type="radio"/>	Depth (inches):		
			Wetland Hydrology Present? Yes <input checked="" type="radio"/> No <input type="radio"/>	
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:				
Remarks:				

WETLAND DETERMINATION DATA FORM - Arid West Region

Project/Site: 2 Gates/Connection Slough City/County: Bacon Island, San Joaquin Sampling Date: 9/9/08
 Applicant/Owner: Contra Costa Water District State: CA Sampling Point: 25 B
 Investigator(s): T. Mahony, A. Richey Section, Township, Range: T2N R4E sec 22
 Landform (hillslope, terrace, etc.): hummock Local relief (concave, convex, none): convex Slope (%): 0-2
 Subregion (LRR): C - Mediterranean California Lat: 38° 0' 2.6" Long: 121° 31' 31.5" Datum: NAD 83
 Soil Map Unit Name: Itano silty clay, paritally drained, 0-2% slopes NWI classification: _____

Are climatic / hydrologic conditions on the site typical for this time of year? Yes ☒ No ☐ (If no, explain in Remarks.)
 Are Vegetation ☐ Soil ☐ or Hydrology ☐ significantly disturbed? Are "Normal Circumstances" present? Yes ☒ No ☐
 Are Vegetation ☐ Soil ☐ or Hydrology ☐ naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>	Is the Sampled Area within a Wetland?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>
Hydric Soil Present?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>			
Wetland Hydrology Present?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>			
Remarks:					

VEGETATION

Tree Stratum (Use scientific names.)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: <u>0</u> (A) Total Number of Dominant Species Across All Strata: <u>10</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>0</u> % (A/B)																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																											
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Total Cover: <u> </u> %				Prevalence Index worksheet: <table border="0"> <tr> <td>Total % Cover of:</td> <td>Multiply by:</td> </tr> <tr> <td>OBL species</td> <td>x 1 = <u>0</u></td> </tr> <tr> <td>FACW species</td> <td>x 2 = <u>0</u></td> </tr> <tr> <td>FAC species</td> <td>x 3 = <u>0</u></td> </tr> <tr> <td>FACU species</td> <td>x 4 = <u>0</u></td> </tr> <tr> <td>UPL species</td> <td>x 5 = <u>0</u></td> </tr> <tr> <td>Column Totals:</td> <td>(A) <u>0</u> (B) <u>0</u></td> </tr> <tr> <td colspan="3">Prevalence Index = B/A = <u> </u></td> <td></td> </tr> <tr> <td colspan="4"> Hydrophytic Vegetation Indicators: <input type="checkbox"/> Dominance Test is >50% <input type="checkbox"/> Prevalence Index is ≤3.0¹ <input type="checkbox"/> Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet) <input type="checkbox"/> Problematic Hydrophytic Vegetation¹ (Explain) </td> <td rowspan="5"> Hydrophytic Vegetation Present? 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SOIL

Sampling Point: 25B

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth (inches)	Matrix		Redox Features		Type ¹	Loc ²	Texture ³	Remarks
	Color (moist)	%	Color (moist)	%				
0-16	10 YR 3/2	99	10 YR 4/6	<1	C	m	silty clay loam	

¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix. ²Location: PL=Pore Lining, RC=Root Channel, M=Matrix.³Soil Textures: Clay, Silty Clay, Sandy Clay, Loam, Sandy Clay Loam, Sandy Loam, Clay Loam, Silty Clay Loam, Silt Loam, Silt, Loamy Sand, Sand.

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)

- ☐ Histosol (A1)
☐ Histic Epipedon (A2)
☐ Black Histic (A3)
☐ Hydrogen Sulfide (A4)
☐ Stratified Layers (A5) (LRR C)
☐ 1 cm Muck (A9) (LRR D)
☐ Depleted Below Dark Surface (A11)
☐ Thick Dark Surface (A12)
☐ Sandy Mucky Mineral (S1)
☐ Sandy Gleyed Matrix (S4)

- ☐ Sandy Redox (S5)
☐ Stripped Matrix (S6)
☐ Loamy Mucky Mineral (F1)
☐ Loamy Gleyed Matrix (F2)
☐ Depleted Matrix (F3)
☐ Redox Dark Surface (F6)
☐ Depleted Dark Surface (F7)
☐ Redox Depressions (F8)
☐ Vernal Pools (F9)

Indicators for Problematic Hydric Soils:⁴

- ☐ 1 cm Muck (A9) (LRR C)
☐ 2 cm Muck (A10) (LRR B)
☐ Reduced Vertic (F18)
☐ Red Parent Material (TF2)
☐ Other (Explain in Remarks)

⁴Indicators of hydrophytic vegetation and wetland hydrology must be present.

Restrictive Layer (if present):

Type: _____

Depth (inches): _____

Hydric Soil Present? Yes ☐ No ☒

Remarks:

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (any one indicator is sufficient)

- ☐ Surface Water (A1)
☐ High Water Table (A2)
☐ Saturation (A3)
☐ Water Marks (B1) (Nonriverine)
☐ Sediment Deposits (B2) (Nonriverine)
☐ Drift Deposits (B3) (Nonriverine)
☐ Surface Soil Cracks (B6)
☐ Inundation Visible on Aerial Imagery (B7)
☐ Water-Stained Leaves (B9)
☐ Salt Crust (B11)
☐ Biotic Crust (B12)
☐ Aquatic Invertebrates (B13)
☐ Hydrogen Sulfide Odor (C1)
☐ Oxidized Rhizospheres along Living Roots (C3)
☐ Presence of Reduced Iron (C4)
☐ Recent Iron Reduction in Plowed Soils (C6)
☐ Other (Explain in Remarks)

Secondary Indicators (2 or more required)

- ☐ Water Marks (B1) (Riverine)
☐ Sediment Deposits (B2) (Riverine)
☐ Drift Deposits (B3) (Riverine)
☐ Drainage Patterns (B10)
☐ Dry-Season Water Table (C2)
☐ Thin Muck Surface (C7)
☐ Crayfish Burrows (C8)
☐ Saturation Visible on Aerial Imagery (C9)
☐ Shallow Aquitard (D3)
☐ FAC-Neutral Test (D5)

Field Observations:

Surface Water Present? Yes ☐ No ☒ Depth (inches): _____Water Table Present? Yes ☐ No ☒ Depth (inches): _____Saturation Present? (includes capillary fringe) Yes ☐ No ☒ Depth (inches): _____Wetland Hydrology Present? Yes ☐ No ☒

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:

WETLAND DETERMINATION DATA FORM - Arid West Region

Project/Site: 2 Gates/Connection Slough City/County: Bacon Island, San Joaquin Sampling Date: 9/9/08
 Applicant/Owner: Contra Costa Water District State: CA Sampling Point: 26
 Investigator(s): T. Mahony, A. Richey Section, Township, Range: T2N R4E Sec 22
 Landform (hillslope, terrace, etc.): field Local relief (concave, convex, none): none Slope (%): 0-2
 Subregion (LRR): C - Mediterranean California Lat: 38° 0' 6.36" Long: 121° 31' 31" Datum: NAD 83
 Soil Map Unit Name: Itano silty clay, paritally drained, 0-2% slopes NWI classification: _____

Are climatic / hydrologic conditions on the site typical for this time of year? Yes ☒ No ☐ (If no, explain in Remarks.)
 Are Vegetation ☐ Soil ☐ or Hydrology ☐ significantly disturbed? Are "Normal Circumstances" present? Yes ☒ No ☐
 Are Vegetation ☐ Soil ☐ or Hydrology ☐ naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>	Is the Sampled Area within a Wetland?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>
Hydric Soil Present?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>			
Wetland Hydrology Present?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>			
Remarks: <u>Situated in fallow aquacultural field, nearby an active ground squirrel colony.</u>					

VEGETATION

Tree Stratum (Use scientific names.)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:	
1.				Number of Dominant Species That Are OBL, FACW, or FAC:	0 (A)
2.				Total Number of Dominant Species Across All Strata:	2* (B)
3.				Percent of Dominant Species That Are OBL, FACW, or FAC:	0 % (A/B)
4.					
Total Cover: %					
Sapling/Shrub Stratum				Prevalence Index worksheet:	
1.				Total % Cover of:	Multiply by:
2.				OBL species	x 1 = 0
3.				FACW species	x 2 = 0
4.				FAC species	x 3 = 0
5.				FACU species	x 4 = 0
Total Cover: %				UPL species	x 5 = 0
Herb Stratum				Column Totals:	(A) 0 (B)
1. <u>Bromus diandrus</u>	<u>55</u>	<u>y</u>	<u>NL</u>	Prevalence Index = B/A =	
2. <u>Convolvulus arvensis</u>	<u>20</u>	<u>y</u>	<u>NL</u>	Hydrophytic Vegetation Indicators:	
3. <u>Hirschfeldia incana</u>	<u>15</u>		<u>NL</u>	<input type="checkbox"/> Dominance Test is >50%	
4. <u>Raphanus sativa</u>	<u>5</u>		<u>NL</u>	<input type="checkbox"/> Prevalence Index is ≤3.0 ¹	
5.				<input type="checkbox"/> Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)	
6.				<input type="checkbox"/> Problematic Hydrophytic Vegetation ¹ (Explain)	
7.				¹ Indicators of hydric soil and wetland hydrology must be present.	
8.				Hydrophytic Vegetation Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	
Total Cover: %					
Woody Vine Stratum					
1.					
2.					
Total Cover: %					
% Bare Ground in Herb Stratum <u>5</u> %					
% Cover of Biotic Crust %					
Remarks:					

SOIL

Sampling Point: 26

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)								
Depth (inches)	Matrix		Redox Features				Texture ³	Remarks
	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²		
0-16	10YR 3/2	99	10YR 4/6	1	C	M	silty clay loam	

¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix. ²Location: PL=Pore Lining, RC=Root Channel, M=Matrix.

³Soil Textures: Clay, Silty Clay, Sandy Clay, Loam, Sandy Clay Loam, Sandy Loam, Clay Loam, Silty Clay Loam, Silt Loam, Silt, Loamy Sand, Sand.

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)

<input type="checkbox"/> Histosol (A1)	<input type="checkbox"/> Sandy Redox (S5)
<input type="checkbox"/> Histic Epipedon (A2)	<input type="checkbox"/> Stripped Matrix (S6)
<input type="checkbox"/> Black Histic (A3)	<input type="checkbox"/> Loamy Mucky Mineral (F1)
<input type="checkbox"/> Hydrogen Sulfide (A4)	<input type="checkbox"/> Loamy Gleyed Matrix (F2)
<input type="checkbox"/> Stratified Layers (A5) (LRR C)	<input type="checkbox"/> Depleted Matrix (F3)
<input type="checkbox"/> 1 cm Muck (A9) (LRR D)	<input type="checkbox"/> Redox Dark Surface (F6)
<input type="checkbox"/> Depleted Below Dark Surface (A11)	<input type="checkbox"/> Depleted Dark Surface (F7)
<input type="checkbox"/> Thick Dark Surface (A12)	<input type="checkbox"/> Redox Depressions (F8)
<input type="checkbox"/> Sandy Mucky Mineral (S1)	<input type="checkbox"/> Vernal Pools (F9)
<input type="checkbox"/> Sandy Gleyed Matrix (S4)	

Indicators for Problematic Hydric Soils:⁴

- ☐ 1 cm Muck (A9) (**LRR C**)
- ☐ 2 cm Muck (A10) (**LRR B**)
- ☐ Reduced Vertic (F18)
- ☐ Red Parent Material (TF2)
- ☐ Other (Explain in Remarks)

⁴Indicators of hydrophytic vegetation and wetland hydrology must be present.

Restrictive Layer (if present): Type: _____ Depth (inches): _____ Remarks: _____	Hydric Soil Present? Yes <input type="radio"/> No <input checked="" type="radio"/>
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HYDROLOGY

Wetland Hydrology Indicators:			Secondary Indicators (2 or more required)	
Primary Indicators (any one indicator is sufficient)				
<input type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Salt Crust (B11)	<input type="checkbox"/> Water Marks (B1) (Riverine)		
<input type="checkbox"/> High Water Table (A2)	<input type="checkbox"/> Biotic Crust (B12)	<input type="checkbox"/> Sediment Deposits (B2) (Riverine)		
<input type="checkbox"/> Saturation (A3)	<input type="checkbox"/> Aquatic Invertebrates (B13)	<input type="checkbox"/> Drift Deposits (B3) (Riverine)		
<input type="checkbox"/> Water Marks (B1) (Nonriverine)	<input type="checkbox"/> Hydrogen Sulfide Odor (C1)	<input type="checkbox"/> Drainage Patterns (B10)		
<input type="checkbox"/> Sediment Deposits (B2) (Nonriverine)	<input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3)	<input type="checkbox"/> Dry-Season Water Table (C2)		
<input type="checkbox"/> Drift Deposits (B3) (Nonriverine)	<input type="checkbox"/> Presence of Reduced Iron (C4)	<input type="checkbox"/> Thin Muck Surface (C7)		
<input type="checkbox"/> Surface Soil Cracks (B6)	<input type="checkbox"/> Recent Iron Reduction in Plowed Soils (C6)	<input type="checkbox"/> Crayfish Burrows (C8)		
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)	<input type="checkbox"/> Other (Explain in Remarks)	<input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)		
<input type="checkbox"/> Water-Stained Leaves (B9)		<input type="checkbox"/> Shallow Aquitard (D3)		
		<input type="checkbox"/> FAC-Neutral Test (D5)		
Field Observations:				
Surface Water Present?	Yes <input type="radio"/> No <input type="radio"/>	Depth (inches):	Wetland Hydrology Present? Yes <input type="radio"/> No <input checked="" type="radio"/>	
Water Table Present?	Yes <input type="radio"/> No <input type="radio"/>	Depth (inches):		
Saturation Present?	Yes <input type="radio"/> No <input type="radio"/>	Depth (inches):		
(includes capillary fringe)				
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:				
Remarks: <i>No hydrology indicators observed.</i>				

WETLAND DETERMINATION DATA FORM - Arid West Region

Project/Site: 2 Gates/Connection Slough City/County: Bacon Island, San Joaquin Sampling Date: 9/9/08
 Applicant/Owner: Contra Costa Water District State: CA Sampling Point: 27 A
 Investigator(s): T. Mahony, A. Richey Section, Township, Range: T2N R4E sec 22
 Landform (hillslope, terrace, etc.): ditch Local relief (concave, convex, none): concave Slope (%): 0-2
 Subregion (LRR): C - Mediterranean California Lat: 38° 0' 9.8" Long: 121° 31' 41" Datum: NAD 83
 Soil Map Unit Name: Itano silty clay, paritally drained, 0-2% slopes NWI classification: _____

Are climatic / hydrologic conditions on the site typical for this time of year? Yes ☒ No ☐ (If no, explain in Remarks.)
 Are Vegetation ☒ Soil ☐ or Hydrology ☐ significantly disturbed? Are "Normal Circumstances" present? Yes ☒ No ☐
 Are Vegetation ☐ Soil ☐ or Hydrology ☐ naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	Is the Sampled Area within a Wetland? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Hydric Soil Present?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Wetland Hydrology Present?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Remarks: <u>Vegetation has been removed from ditch. Ditch averages 5 feet in width.</u>			

VEGETATION

Tree Stratum (Use scientific names.)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: <u>28</u> (A) Total Number of Dominant Species Across All Strata: <u>28</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>100</u> % (A/B)																					
1.																									
2.																									
3.																									
4.																									
Total Cover: _____ %				Prevalence Index worksheet: <table border="1"> <thead> <tr> <th>Total % Cover of:</th> <th>Multiply by:</th> <th></th> </tr> </thead> <tbody> <tr><td>OBL species</td><td>x 1 =</td><td>0</td></tr> <tr><td>FACW species</td><td>x 2 =</td><td>0</td></tr> <tr><td>FAC species</td><td>x 3 =</td><td>0</td></tr> <tr><td>FACU species</td><td>x 4 =</td><td>0</td></tr> <tr><td>UPL species</td><td>x 5 =</td><td>0</td></tr> <tr><td>Column Totals:</td><td>(A)</td><td>0 (B)</td></tr> </tbody> </table> Prevalence Index = B/A = _____	Total % Cover of:	Multiply by:		OBL species	x 1 =	0	FACW species	x 2 =	0	FAC species	x 3 =	0	FACU species	x 4 =	0	UPL species	x 5 =	0	Column Totals:	(A)	0 (B)
Total % Cover of:	Multiply by:																								
OBL species	x 1 =	0																							
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Column Totals:	(A)	0 (B)																							
Sapling/Shrub Stratum																									
1.																									
2.																									
3.																									
4.																									
5.																									
Total Cover: _____ %																									
Herb Stratum																									
1. <u>Typha latifolia</u>	<u>10</u>	<u>y</u>	<u>OBL</u>	Hydrophytic Vegetation Indicators: <input checked="" type="checkbox"/> Dominance Test is >50% <input type="checkbox"/> Prevalence Index is ≤3.0 ¹ <input type="checkbox"/> Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) <input type="checkbox"/> Problematic Hydrophytic Vegetation ¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology must be present.																					
2. <u>Polygonum hydropiperoides</u>	<u>15</u>	<u>y</u>	<u>OBL</u>																						
3. <u>Urtica dioica</u>	<u>5</u>		<u>FACW</u>																						
4.																									
5.																									
6.																									
7.																									
8.																									
Total Cover: _____ %																									
Woody Vine Stratum																									
1.																									
2.																									
Total Cover: _____ %																									
% Bare Ground in Herb Stratum <u>70</u> %	% Cover of Biotic Crust _____ %			Hydrophytic Vegetation Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>																					
Remarks: <u>Recently dredged ditch formerly supported more typha & polygonum.</u>																									

27A

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

[illegible]

¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix. ²Location: PL=Pore Lining, RC=Root Channel, M=Matrix.

³Soil Textures: Clay, Silty Clay, Sandy Clay, Loam, Sandy Clay Loam, Sandy Loam, Clay Loam, Silty Clay Loam, Silt Loam, Silt, Loamy Sand, Sand.

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)

Indicators for Problematic Hydric Soils:⁴

- | | | |
|--|---|---|
| <input type="checkbox"/> Histosol (A1) | <input type="checkbox"/> Sandy Redox (S5) | <input type="checkbox"/> 1 cm Muck (A9) (LRR C) |
| <input type="checkbox"/> Histic Epipedon (A2) | <input type="checkbox"/> Stripped Matrix (S6) | <input type="checkbox"/> 2 cm Muck (A10) (LRR B) |
| <input type="checkbox"/> Black Histic (A3) | <input type="checkbox"/> Loamy Mucky Mineral (F1) | <input type="checkbox"/> Reduced Vertic (F18) |
| <input type="checkbox"/> Hydrogen Sulfide (A4) | <input type="checkbox"/> Loamy Gleyed Matrix (F2) | <input type="checkbox"/> Red Parent Material (TF2) |
| <input type="checkbox"/> Stratified Layers (A5) (LRR C) | <input type="checkbox"/> Depleted Matrix (F3) | <input type="checkbox"/> Other (Explain in Remarks) |
| <input type="checkbox"/> 1 cm Muck (A9) (LRR D) | <input checked="" type="checkbox"/> Redox Dark Surface (F6) | |
| <input type="checkbox"/> Depleted Below Dark Surface (A11) | <input type="checkbox"/> Depleted Dark Surface (F7) | |
| <input type="checkbox"/> Thick Dark Surface (A12) | <input type="checkbox"/> Redox Depressions (F8) | |
| <input type="checkbox"/> Sandy Mucky Mineral (S1) | <input type="checkbox"/> Vernal Pools (F9) | |
| <input type="checkbox"/> Sandy Gleyed Matrix (S4) | | |
- ⁴Indicators of hydrophytic vegetation wetland hydrology must be

⁴Indicators of hydrophytic vegetation and wetland hydrology must be present.

Restrictive Layer (if present):

Type: _____

Depth (inches):

Hydric Soil Present? Yes ☒ No ☐

Remarks:

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (any one indicator is sufficient)

- | | | | |
|-------------------------------------|---|--------------------------|---|
| <input checked="" type="checkbox"/> | Surface Water (A1) | <input type="checkbox"/> | Salt Crust (B11) |
| <input type="checkbox"/> | High Water Table (A2) | <input type="checkbox"/> | Biotic Crust (B12) |
| <input checked="" type="checkbox"/> | Saturation (A3) | <input type="checkbox"/> | Aquatic Invertebrates (B13) |
| <input type="checkbox"/> | Water Marks (B1) (Nonriverine) | <input type="checkbox"/> | Hydrogen Sulfide Odor (C1) |
| <input type="checkbox"/> | Sediment Deposits (B2) (Nonriverine) | <input type="checkbox"/> | Oxidized Rhizospheres along Living Roots (C3) |
| <input type="checkbox"/> | Drift Deposits (B3) (Nonriverine) | <input type="checkbox"/> | Presence of Reduced Iron (C4) |
| <input type="checkbox"/> | Surface Soil Cracks (B6) | <input type="checkbox"/> | Recent Iron Reduction in Plowed Soils (C6) |
| <input type="checkbox"/> | Inundation Visible on Aerial Imagery (B7) | <input type="checkbox"/> | Other (Explain in Remarks) |
| <input type="checkbox"/> | Water-Stained Leaves (B9) | | |

Secondary Indicators (2 or more required)

- ☐ Water Marks (B1) (**Riverine**)
- ☐ Sediment Deposits (B2) (**Riverine**)
- ☐ Drift Deposits (B3) (**Riverine**)
- ☐ Drainage Patterns (B10)
- ☐ Dry-Season Water Table (C2)
- ☐ Thin Muck Surface (C7)
- ☐ Crayfish Burrows (C8)
- ☐ Saturation Visible on Aerial Imagery (C9)
- ☐ Shallow Aquitard (D3)
- ☐ FAC-Neutral Test (D5)

Field Observations:

Surface Water Present? Yes ☒ No ☐ Depth (inches): 4

Water Table Present? Yes ☒ No ☐ Depth (inches): _____

Saturation Present? Yes ☒ No ☐ Depth (inches): _____

Wetland Hydrology Present? Yes ☒ No ☐

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:

WETLAND DETERMINATION DATA FORM - Arid West Region

Project/Site: 2 Gates/Connection Slough City/County: Bacon Island, San Joaquin Sampling Date: 9/9/08
 Applicant/Owner: Contra Costa Water District State: CA Sampling Point: 27-B
 Investigator(s): T. Mahony, A. Richey Section, Township, Range: T2N R4E Sec 22
 Landform (hillslope, terrace, etc.): terrace/field Local relief (concave, convex, none): none Slope (%): 0-2
 Subregion (LRR): C - Mediterranean California Lat: 38° 0' 9.8" Long: 121° 31' 41" Datum: NAD 83
 Soil Map Unit Name: Itano silty clay, paritally drained, 0-2% slopes NWI classification:

Are climatic / hydrologic conditions on the site typical for this time of year? Yes ☐ No ☐ (If no, explain in Remarks.)
 Are Vegetation ☐ Soil ☐ or Hydrology ☐ significantly disturbed? Are "Normal Circumstances" present? Yes ☐ No ☐
 Are Vegetation ☐ Soil ☐ or Hydrology ☐ naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes <input checked="" type="radio"/>	No <input type="radio"/>	Is the Sampled Area within a Wetland?	Yes <input type="radio"/> No <input checked="" type="radio"/>
Hydric Soil Present?	Yes <input type="radio"/>	No <input checked="" type="radio"/>		
Wetland Hydrology Present?	Yes <input type="radio"/>	No <input checked="" type="radio"/>		
Remarks:				

VEGETATION

Tree Stratum (Use scientific names.)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: <u>10</u> (A) Total Number of Dominant Species Across All Strata: <u>10</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>100</u> % (A/B)																					
1.																									
2.																									
3.																									
4.																									
Total Cover: <u> </u> %				Prevalence Index worksheet: <table border="1"> <thead> <tr> <th>Total % Cover of:</th> <th>Multiply by:</th> <th></th> </tr> </thead> <tbody> <tr><td>OBL species</td><td>x 1 =</td><td><u>0</u></td></tr> <tr><td>FACW species</td><td>x 2 =</td><td><u>0</u></td></tr> <tr><td>FAC species</td><td>x 3 =</td><td><u>0</u></td></tr> <tr><td>FACU species</td><td>x 4 =</td><td><u>0</u></td></tr> <tr><td>UPL species</td><td>x 5 =</td><td><u>0</u></td></tr> <tr><td>Column Totals:</td><td>(A)</td><td><u>0</u> (B)</td></tr> </tbody> </table> Prevalence Index = B/A = <u> </u>	Total % Cover of:	Multiply by:		OBL species	x 1 =	<u>0</u>	FACW species	x 2 =	<u>0</u>	FAC species	x 3 =	<u>0</u>	FACU species	x 4 =	<u>0</u>	UPL species	x 5 =	<u>0</u>	Column Totals:	(A)	<u>0</u> (B)
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Sapling/Shrub Stratum																									
1.																									
2.																									
3.																									
4.																									
5.																									
Total Cover: <u> </u> %																									
Herb Stratum																									
1. <u>Cynodon dactylon</u>	<u>100</u>	<u>Y</u>	<u>FAC</u>	Hydrophytic Vegetation Indicators: Dominance Test is >50% Prevalence Index is ≤3.0 ¹ <input type="checkbox"/> Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) <input type="checkbox"/> Problematic Hydrophytic Vegetation ¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology must be present.																					
2.																									
3.																									
4.																									
5.																									
6.																									
7.																									
8.																									
Total Cover: <u> </u> %																									
Woody Vine Stratum																									
1.																									
2.																									
Total Cover: <u> </u> %																									
% Bare Ground in Herb Stratum <u> </u> %	% Cover of Biotic Crust <u> </u> %			Hydrophytic Vegetation Present? Yes <input checked="" type="radio"/> No <input type="radio"/>																					

Remarks:

Spots from ditch dredging also present, containing T. latifolia litter.

SOIL

Sampling Point: 278

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth (inches)	Matrix		Redox Features				Texture ³	Remarks
	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²		
0-16	10 yr 2/1	100	—	0	—	—	silt loam	

¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix. ²Location: PL=Pore Lining, RC=Root Channel, M=Matrix.³Soil Textures: Clay, Silty Clay, Sandy Clay, Loam, Sandy Clay Loam, Sandy Loam, Clay Loam, Silty Clay Loam, Silt Loam, Silt, Loamy Sand, Sand.

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)

- | | |
|--|---|
| <input type="checkbox"/> Histosol (A1) | <input type="checkbox"/> Sandy Redox (S5) |
| <input type="checkbox"/> Histic Epipedon (A2) | <input type="checkbox"/> Stripped Matrix (S6) |
| <input type="checkbox"/> Black Histic (A3) | <input type="checkbox"/> Loamy Mucky Mineral (F1) |
| <input type="checkbox"/> Hydrogen Sulfide (A4) | <input type="checkbox"/> Loamy Gleyed Matrix (F2) |
| <input type="checkbox"/> Stratified Layers (A5) (LRR C) | <input type="checkbox"/> Depleted Matrix (F3) |
| <input type="checkbox"/> 1 cm Muck (A9) (LRR D) | <input type="checkbox"/> Redox Dark Surface (F6) |
| <input type="checkbox"/> Depleted Below Dark Surface (A11) | <input type="checkbox"/> Depleted Dark Surface (F7) |
| <input type="checkbox"/> Thick Dark Surface (A12) | <input type="checkbox"/> Redox Depressions (F8) |
| <input type="checkbox"/> Sandy Mucky Mineral (S1) | <input type="checkbox"/> Vernal Pools (F9) |
| <input type="checkbox"/> Sandy Gleyed Matrix (S4) | |

Indicators for Problematic Hydric Soils:⁴

- ☐ 1 cm Muck (A9) (LRR C)
☐ 2 cm Muck (A10) (LRR B)
☐ Reduced Vertic (F18)
☐ Red Parent Material (TF2)
☐ Other (Explain in Remarks)

⁴Indicators of hydrophytic vegetation and wetland hydrology must be present.

Restrictive Layer (if present):

Type: _____

Depth (inches): _____

Hydric Soil Present? Yes ☐ No ☒

Remarks:

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (any one indicator is sufficient)

- | | |
|--|--|
| <input type="checkbox"/> Surface Water (A1) | <input type="checkbox"/> Salt Crust (B11) |
| <input type="checkbox"/> High Water Table (A2) | <input type="checkbox"/> Biotic Crust (B12) |
| <input type="checkbox"/> Saturation (A3) | <input type="checkbox"/> Aquatic Invertebrates (B13) |
| <input type="checkbox"/> Water Marks (B1) (Nonriverine) | <input type="checkbox"/> Hydrogen Sulfide Odor (C1) |
| <input type="checkbox"/> Sediment Deposits (B2) (Nonriverine) | <input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3) |
| <input type="checkbox"/> Drift Deposits (B3) (Nonriverine) | <input type="checkbox"/> Presence of Reduced Iron (C4) |
| <input type="checkbox"/> Surface Soil Cracks (B6) | <input type="checkbox"/> Recent Iron Reduction in Plowed Soils (C6) |
| <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7) | <input type="checkbox"/> Other (Explain in Remarks) |
| <input type="checkbox"/> Water-Stained Leaves (B9) | |

Secondary Indicators (2 or more required)

- ☐ Water Marks (B1) (Riverine)
☐ Sediment Deposits (B2) (Riverine)
☐ Drift Deposits (B3) (Riverine)
☐ Drainage Patterns (B10)
☐ Dry-Season Water Table (C2)
☐ Thin Muck Surface (C7)
☐ Crayfish Burrows (C8)
☐ Saturation Visible on Aerial Imagery (C9)
☐ Shallow Aquitard (D3)
☐ FAC-Neutral Test (D5)

Field Observations:

Surface Water Present? Yes ☐ No ☐ Depth (inches): _____Water Table Present? Yes ☐ No ☐ Depth (inches): _____Saturation Present? Yes ☐ No ☐ Depth (inches): _____
(includes capillary fringe)Wetland Hydrology Present? Yes ☐ No ☒

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:

No hydrology indicators present.

WETLAND DETERMINATION DATA FORM - Arid West Region

Project/Site: 2 Gates/Connection Slough City/County: Bacon Island, San Joaquin Sampling Date: 9/9/08
 Applicant/Owner: Contra Costa Water District State: CA Sampling Point: 28A
 Investigator(s): T. Mahony, A. Richey Section, Township, Range: T2N R4E sec 22
 Landform (hillslope, terrace, etc.): hillslope/levee Local relief (concave, convex, none): concave Slope (%): 0-2
 Subregion (LRR): C - Mediterranean California Lat: 38° 0' 10.8" Long: 121° 31' 39" Datum: NAD 83

Soil Map Unit Name: Itano silty clay, paritally drained, 0-2% slopes NWI classification: _____

Are climatic / hydrologic conditions on the site typical for this time of year? Yes ☒ No ☐ (If no, explain in Remarks.)
 Are Vegetation ☐ Soil ☐ or Hydrology ☐ significantly disturbed? Are "Normal Circumstances" present? Yes ☒ No ☐
 Are Vegetation ☐ Soil ☒ or Hydrology ☐ naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	Is the Sampled Area within a Wetland?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
Hydric Soil Present?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>			
Wetland Hydrology Present?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>			
Remarks: <u>Freshwater marsh. Poor soil development - see soil section.</u>					

VEGETATION

Tree Stratum (Use scientific names.)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: <u>10</u> (A) Total Number of Dominant Species Across All Strata: <u>10</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>100</u> % (A/B)																					
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1.																									
2.																									
3.																									
4.																									
5.																									
6.																									
7.																									
8.																									
Total Cover: _____ %				¹ Indicators of hydric soil and wetland hydrology must be present.																					
Total Cover: _____ %																									
Woody Vine Stratum 1. _____ 2. _____ Total Cover: _____ %				Hydrophytic Vegetation Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>																					
% Bare Ground in Herb Stratum <u>10</u> % % Cover of Biotic Crust _____ %																									
Remarks: <u>↓ water</u> <u>Sch. californicus goes right to edge of levee.</u>																									

28A

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

[illegible]

¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix. ²Location: PL=Pore Lining, RC=Root Channel, M=Matrix.

³Soil Textures: Clay, Silty Clay, Sandy Clay, Loam, Sandy Clay Loam, Sandy Loam, Clay Loam, Silty Clay Loam, Silt Loam, Silt, Loamy Sand, Sand.

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)

- | | | | |
|--------------------------|---|--------------------------|----------------------------|
| <input type="checkbox"/> | Histosol (A1) | <input type="checkbox"/> | Sandy Redox (S5) |
| <input type="checkbox"/> | Histic Epipedon (A2) | <input type="checkbox"/> | Stripped Matrix (S6) |
| <input type="checkbox"/> | Black Histic (A3) | <input type="checkbox"/> | Loamy Mucky Mineral (F1) |
| <input type="checkbox"/> | Hydrogen Sulfide (A4) | <input type="checkbox"/> | Loamy Gleyed Matrix (F2) |
| <input type="checkbox"/> | Stratified Layers (A5) (LRR C) | <input type="checkbox"/> | Depleted Matrix (F3) |
| <input type="checkbox"/> | 1 cm Muck (A9) (LRR D) | <input type="checkbox"/> | Redox Dark Surface (F6) |
| <input type="checkbox"/> | Depleted Below Dark Surface (A11) | <input type="checkbox"/> | Depleted Dark Surface (F7) |
| <input type="checkbox"/> | Thick Dark Surface (A12) | <input type="checkbox"/> | Redox Depressions (F8) |
| <input type="checkbox"/> | Sandy Mucky Mineral (S1) | <input type="checkbox"/> | Vernal Pools (F9) |
| <input type="checkbox"/> | Sandy Gleyed Matrix (S4) | | |

Indicators for Problematic Hydric Soils:

- ☐ 1 cm Muck (A9) (**LRR C**)
 - ☐ 2 cm Muck (A10) (**LRR B**)
 - ☐ Reduced Vertic (F18)
 - ☐ Red Parent Material (TF2)
 - ☐ Other (Explain in Remarks)

⁴Indicators of hydrophytic vegetation and wetland hydrology must be present.

Restrictive Layer (if present):

Type: _____

Depth (inches): _____

Hydric Soil Present? Yes ☐ No ☒

Remarks: mixture of soil & rip rap, unable to sample soil, no true soil profile has developed.

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (any one indicator is sufficient)

- | | | | |
|-------------------------------------|---|--------------------------|---|
| <input checked="" type="checkbox"/> | Surface Water (A1) | <input type="checkbox"/> | Salt Crust (B11) |
| <input type="checkbox"/> | High Water Table (A2) | <input type="checkbox"/> | Biotic Crust (B12) |
| <input type="checkbox"/> | Saturation (A3) | <input type="checkbox"/> | Aquatic Invertebrates (B13) |
| <input type="checkbox"/> | Water Marks (B1) (Nonriverine) | <input type="checkbox"/> | Hydrogen Sulfide Odor (C1) |
| <input type="checkbox"/> | Sediment Deposits (B2) (Nonriverine) | <input type="checkbox"/> | Oxidized Rhizospheres along Living Roots (C3) |
| <input type="checkbox"/> | Drift Deposits (B3) (Nonriverine) | <input type="checkbox"/> | Presence of Reduced Iron (C4) |
| <input type="checkbox"/> | Surface Soil Cracks (B6) | <input type="checkbox"/> | Recent Iron Reduction in Plowed Soils (C6) |
| <input type="checkbox"/> | Inundation Visible on Aerial Imagery (B7) | <input type="checkbox"/> | Other (Explain in Remarks) |
| <input type="checkbox"/> | Water-Stained Leaves (B9) | | |

Secondary Indicators (2 or more required)

- ☐ Water Marks (B1) (**Riverine**)
- ☐ Sediment Deposits (B2) (**Riverine**)
- ☐ Drift Deposits (B3) (**Riverine**)
- ☐ Drainage Patterns (B10)
- ☐ Dry-Season Water Table (C2)
- ☐ Thin Muck Surface (C7)
- ☐ Crayfish Burrows (C8)
- ☐ Saturation Visible on Aerial Imagery (C9)
- ☐ Shallow Aquitard (D3)
- ☐ FAC-Neutral Test (D5)

Field Observations:

Surface Water Present? Yes ☒ No ☐ Depth (inches): ~38

Water Table Present? Yes ☐ No ☐ Depth (inches): _____

Saturation Present? Yes ☐ No ☐ Depth (inches): _____
(includes capillary fringe)

Wetland Hydrology Present? Yes ☒ No ☐

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:

WETLAND DETERMINATION DATA FORM - Arid West Region

Project/Site: 2 Gates/Connection Slough City/County: Bacon Island, San Joaquin Sampling Date: 9/9/08
 Applicant/Owner: Contra Costa Water District State: CA Sampling Point: 28B
 Investigator(s): T. Mahony, A. Richey Section, Township, Range: T2N R4E Sec 22
 Landform (hillslope, terrace, etc.): hillslope/levee Local relief (concave, convex, none): convex Slope (%): 5-10
 Subregion (LRR): C - Mediterranean California Lat: 38° 0' 10.8" Long: 121° 31' 39" Datum: NAD 83
 Soil Map Unit Name: Itano silty clay, paritally drained, 0-2% slopes NWI classification: _____

Are climatic / hydrologic conditions on the site typical for this time of year? Yes ☐ No ☐ (If no, explain in Remarks.)
 Are Vegetation ☐ Soil ☐ or Hydrology ☐ significantly disturbed? Are "Normal Circumstances" present? Yes ☐ No ☐
 Are Vegetation ☐ Soil ☐ or Hydrology ☐ naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes <input type="radio"/>	No <input checked="" type="radio"/>	Is the Sampled Area within a Wetland?	Yes <input type="radio"/>	No <input checked="" type="radio"/>
Hydric Soil Present?	Yes <input type="radio"/>	No <input checked="" type="radio"/>			
Wetland Hydrology Present?	Yes <input type="radio"/>	No <input checked="" type="radio"/>			
Remarks:					

VEGETATION

Tree Stratum (Use scientific names.)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:		
1. _____				Number of Dominant Species That Are OBL, FACW, or FAC: <u>0</u> (A)		
2. _____				Total Number of Dominant Species Across All Strata: <u>20</u> (B)		
3. _____				Percent of Dominant Species That Are OBL, FACW, or FAC: <u>50</u> % (A/B)		
4. _____						
Total Cover: _____ %						
Sapling/Shrub Stratum				Prevalence Index worksheet:		
1. _____				Total % Cover of: _____ Multiply by:		
2. _____				OBL species	x 1 =	<u>0</u>
3. _____				FACW species	x 2 =	<u>0</u>
4. _____				FAC species	x 3 =	<u>0</u>
5. _____				FACU species	x 4 =	<u>0</u>
Total Cover: _____ %				UPL species	x 5 =	<u>0</u>
				Column Totals:	(A)	<u>0</u> (B)
				Prevalence Index = B/A = _____		
Herb Stratum				Hydrophytic Vegetation Indicators:		
1. <u>Cynodon dactylon</u>	<u>45</u>	<u>y</u>	<u>FAC</u>	<input checked="" type="checkbox"/> Dominance Test is >50%		
2. <u>Carduus pycnocephalus</u>	<u>45</u>	<u>y</u>	<u>NL</u>	<input checked="" type="checkbox"/> Prevalence Index is ≤3.0 ¹		
3. <u>Conyza canadensis</u>	<u>5</u>		<u>FAC</u>	<input type="checkbox"/> Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)		
4. <u>Cirsium vulgare</u>	<u>5</u>		<u>NL</u>	<input type="checkbox"/> Problematic Hydrophytic Vegetation ¹ (Explain)		
5. _____						
6. _____						
7. _____						
8. _____						
Total Cover: _____ %						
Woody Vine Stratum				¹ Indicators of hydric soil and wetland hydrology must be present.		
1. _____						
2. _____						
Total Cover: _____ %						
% Bare Ground in Herb Stratum _____ % % Cover of Biotic Crust _____ %				Hydrophytic Vegetation Present? Yes <input type="radio"/> No <input checked="" type="radio"/>		

Remarks:

SOIL

Sampling Point: 28 P

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

[illegible]

¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix. ²Location: PL=Pore Lining, RC=Root Channel, M=Matrix.

³Soil Textures: Clay, Silty Clay, Sandy Clay, Loam, Sandy Clay Loam, Sandy Loam, Clay Loam, Silty Clay Loam, Silt Loam, Silt, Loamy Sand, Sand.

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)

Indicators for Problematic Hydric Soils:⁴

- | | | |
|--|---|---|
| <input type="checkbox"/> Histosol (A1) | <input type="checkbox"/> Sandy Redox (S5) | <input type="checkbox"/> 1 cm Muck (A9) (LRR C) |
| <input type="checkbox"/> Histic Epipedon (A2) | <input type="checkbox"/> Stripped Matrix (S6) | <input type="checkbox"/> 2 cm Muck (A10) (LRR B) |
| <input type="checkbox"/> Black Histic (A3) | <input type="checkbox"/> Loamy Mucky Mineral (F1) | <input type="checkbox"/> Reduced Vertic (F18) |
| <input type="checkbox"/> Hydrogen Sulfide (A4) | <input type="checkbox"/> Loamy Gleyed Matrix (F2) | <input type="checkbox"/> Red Parent Material (TF2) |
| <input type="checkbox"/> Stratified Layers (A5) (LRR C) | <input type="checkbox"/> Depleted Matrix (F3) | <input type="checkbox"/> Other (Explain in Remarks) |
| <input type="checkbox"/> 1 cm Muck (A9) (LRR D) | <input type="checkbox"/> Redox Dark Surface (F6) | |
| <input type="checkbox"/> Depleted Below Dark Surface (A11) | <input type="checkbox"/> Depleted Dark Surface (F7) | |
| <input type="checkbox"/> Thick Dark Surface (A12) | <input type="checkbox"/> Redox Depressions (F8) | |
| <input type="checkbox"/> Sandy Mucky Mineral (S1) | <input type="checkbox"/> Vernal Pools (F9) | |
| <input type="checkbox"/> Sandy Gleyed Matrix (S4) | | |
- ⁴Indicators of hydrophytic vegetation and wetland hydrology must be present.

⁴Indicators of hydrophytic vegetation and wetland hydrology must be present.

Restrictive Layer (if present):

Type:

Depth (inches):

Hydric Soil Present? Yes ☐ No ☒

Remarks:

marks: No true soil development, but a conglomerate of gravel & soil used to construct levee.

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (any one indicator is sufficient)

- | | |
|--|--|
| <input type="checkbox"/> Surface Water (A1) | <input type="checkbox"/> Salt Crust (B11) |
| <input type="checkbox"/> High Water Table (A2) | <input type="checkbox"/> Biotic Crust (B12) |
| <input type="checkbox"/> Saturation (A3) | <input type="checkbox"/> Aquatic Invertebrates (B13) |
| <input type="checkbox"/> Water Marks (B1) (Nonriverine) | <input type="checkbox"/> Hydrogen Sulfide Odor (C1) |
| <input type="checkbox"/> Sediment Deposits (B2) (Nonriverine) | <input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3) |
| <input type="checkbox"/> Drift Deposits (B3) (Nonriverine) | <input type="checkbox"/> Presence of Reduced Iron (C4) |
| <input type="checkbox"/> Surface Soil Cracks (B6) | <input type="checkbox"/> Recent Iron Reduction in Plowed Soils (C6) |
| <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7) | <input type="checkbox"/> Other (Explain in Remarks) |
| <input type="checkbox"/> Water-Stained Leaves (B9) | |

Secondary Indicators (2 or more required)

- ☐ Water Marks (B1) **(Riverine)**
- ☐ Sediment Deposits (B2) **(Riverine)**
- ☐ Drift Deposits (B3) **(Riverine)**
- ☐ Drainage Patterns (B10)
- ☐ Dry-Season Water Table (C2)
- ☐ Thin Muck Surface (C7)
- ☐ Crayfish Burrows (C8)
- ☐ Saturation Visible on Aerial Imagery (C9)
- ☐ Shallow Aquitard (D3)
- ☐ FAC-Neutral Test (D5)

Field Observations:

Surface Water Present? Yes ☐ No ☐ Depth (inches):

Water Table Present? Yes ☐ No ☐ Depth (inches):

Saturation Present? Yes ☐ No ☐ Depth (inches):

Wetland Hydrology Present? Yes ☐ No ☒

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:

No hydrology indicators present.

WETLAND DETERMINATION DATA FORM - Arid West Region

Project/Site: 2 Gates/Connection Slough City/County: Bacon Island, San Joaquin Sampling Date: 9/9/08
 Applicant/Owner: Contra Costa Water District State: CA Sampling Point: 29 A
 Investigator(s): T. Mahony, A. Richey Section, Township, Range: T2N R4E Sec 22
 Landform (hillslope, terrace, etc.): levee/Connection Sl. Local relief (concave, convex, none): Concave Slope (%): 0-2
 Subregion (LRR): C - Mediterranean California Lat: 38° 0' 8.6" Long: 121° 31' 29" Datum: NAD 83
 Soil Map Unit Name: Itano silty clay, partially drained, 0-2% slopes NWI classification: _____

Are climatic / hydrologic conditions on the site typical for this time of year? Yes ☒ No ☐ (If no, explain in Remarks.)
 Are Vegetation ☐ Soil ☐ or Hydrology ☐ significantly disturbed? Are "Normal Circumstances" present? Yes ☒ No ☐
 Are Vegetation ☐ Soil ☒ or Hydrology ☐ naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	Is the Sampled Area within a Wetland?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Hydric Soil Present?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>		
Wetland Hydrology Present?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>		
Remarks: <u>Freshwater marsh. No true soil development- mix of rip rap & soil see soil section remarks. Marsh continues to wrack line. a couple (1-2) feet of bare rip rap in some areas, but we are including</u>				

VEGETATION Bare areas as Freshwater marsh.

Tree Stratum (Use scientific names.)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: <u>10</u> (A) Total Number of Dominant Species Across All Strata: <u>10</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>100</u> % (A/B)																					
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Hydrophytic Vegetation Present? Yes ☒ No ☐

¹Indicators of hydric soil and wetland hydrology must be present.

Prevalence Index = B/A = _____

Column Totals: (A) 0 (B) 0

Percent of Dominant Species That Are OBL, FACW, or FAC: 100 % (A/B)

Total Number of Dominant Species Across All Strata: 10 (B)

Number of Dominant Species That Are OBL, FACW, or FAC: 10 (A)

Is the Sampled Area within a Wetland? Yes ☒ No ☐

Wetland Hydrology Present? Yes ☒ No ☐

Hydric Soil Present? Yes ☐ No ☒

Hydrophytic Vegetation Present? Yes ☒ No ☐

Are "Normal Circumstances" present? Yes ☒ No ☐

(If needed, explain any answers in Remarks.)

naturally problematic?

Soil ☒ or Hydrology ☐

Vegetation ☐

Are climatic / hydrologic conditions on the site typical for this time of year?

Yes ☒ No ☐

NWI classification: _____

Datum: NAD 83

Long: 121° 31' 29"

Lat: 38° 0' 8.6"

Slope (%): 0-2

Local relief (concave, convex, none): Concave

Landform (hillslope, terrace, etc.): levee/Connection Sl.

Section, Township, Range: T2N R4E Sec 22

State: CA

Sampling Point: 29 A

Sampling Date: 9/9/08

City/County: Bacon Island, San Joaquin

Project/Site: 2 Gates/Connection Slough

WETLAND DETERMINATION DATA FORM - Arid West Region

SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	Is the Sampled Area within a Wetland?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Hydric Soil Present?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>		
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Is the Sampled Area within a Wetland? Yes ☒ No ☐

Wetland Hydrology Present? Yes ☒ No ☐

Hydric Soil Present? Yes ☐ No ☒

Hydrophytic Vegetation Present? Yes ☒ No ☐

Are "Normal Circumstances" present? Yes ☒ No ☐

(If needed, explain any answers in Remarks.)

naturally problematic?

Soil ☒ or Hydrology ☐

Vegetation ☐

Are climatic / hydrologic conditions on the site typical for this time of year?

Yes ☒ No ☐

NWI classification: _____

Datum: NAD 83

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Sampling Point: 29 A

Sampling Date: 9/9/08

City/County: Bacon Island, San Joaquin

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WETLAND DETERMINATION DATA FORM - Arid West Region

SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	Is the Sampled Area within a Wetland?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
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Is the Sampled Area within a Wetland? Yes ☒ No ☐

Wetland Hydrology Present? Yes ☒ No ☐

Hydric Soil Present? Yes ☐ No ☒

Hydrophytic Vegetation Present? Yes ☒ No ☐

Are "Normal Circumstances" present? Yes ☒ No ☐

(If needed, explain any answers in Remarks.)

naturally problematic?

Soil ☒ or Hydrology ☐

Vegetation ☐

Are climatic / hydrologic conditions on the site typical for this time of year?

Yes ☒ No ☐

NWI classification: _____

Datum: NAD 83

Long: 121° 31' 29"

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WETLAND DETERMINATION DATA FORM - Arid West Region

SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	Is the Sampled Area within a Wetland?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
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Remarks: <u>Freshwater marsh. No true soil development- mix of rip rap & soil see soil section remarks. Marsh continues to wrack line. a couple (1-2) feet of bare rip rap in some areas, but we are including</u>				

VEGETATION Bare areas as Freshwater marsh.

Tree Stratum (Use scientific names.)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: <u>10</u> (A) Total Number of Dominant Species Across All Strata: <u>10</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>100</u> % (A/B)																					
1.																									
2.																									
3.																									
4.																									
Total Cover: _____ %				Prevalence Index worksheet: <table border="1"> <thead> <tr> <th>Total % Cover of:</th> <th>Multiply by:</th> <th></th> </tr> </thead> <tbody> <tr><td>OBL species</td><td>x 1 =</td><td><u>0</u></td></tr> <tr><td>FACW species</td><td>x 2 =</td><td><u>0</u></td></tr> <tr><td>FAC species</td><td>x 3 =</td><td><u>0</u></td></tr> <tr><td>FACU species</td><td>x 4 =</td><td><u>0</u></td></tr> <tr><td>UPL species</td><td>x 5 =</td><td><u>0</u></td></tr> <tr><td>Column Totals:</td><td>(A)</td><td><u>0</u> (B)</td></tr> </tbody> </table> Prevalence Index = B/A = _____	Total % Cover of:	Multiply by:		OBL species	x 1 =	<u>0</u>	FACW species	x 2 =	<u>0</u>	FAC species	x 3 =	<u>0</u>	FACU species	x 4 =	<u>0</u>	UPL species	x 5 =	<u>0</u>	Column Totals:	(A)	<u>0</u> (B)
Total % Cover of:	Multiply by:																								
OBL species	x 1 =	<u>0</u>																							
FACW species	x 2 =	<u>0</u>																							
FAC species	x 3 =	<u>0</u>																							
FACU species	x 4 =	<u>0</u>																							
UPL species	x 5 =	<u>0</u>																							
Column Totals:	(A)	<u>0</u> (B)																							
Sapling/Shrub Stratum																									
1.																									
2.																									
3.																									
4.																									
5.																									
Total Cover: _____ %																									
Herb Stratum																									
1. <u>Scirpus californicus</u>	<u>90</u>	<u>y</u>	<u>OBL</u>	Hydrophytic Vegetation Indicators: <input checked="" type="checkbox"/> Dominance Test is >50% <input checked="" type="checkbox"/> Prevalence Index is ≤3.0 ¹ <input type="checkbox"/> Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) <input type="checkbox"/> Problematic Hydrophytic Vegetation ¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology must be present.																					
2.																									
3.																									
4.		</																							

SOIL

Sampling Point: 29A

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth (inches)	Matrix		Redox Features		Type ¹	Loc ²	Texture ³	Remarks
	Color (moist)	%	Color (moist)	%				

¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix. ²Location: PL=Pore Lining, RC=Root Channel, M=Matrix.³Soil Textures: Clay, Silty Clay, Sandy Clay, Loam, Sandy Clay Loam, Sandy Loam, Clay Loam, Silty Clay Loam, Silt Loam, Silt, Loamy Sand, Sand.

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)

- ☐ Histosol (A1)
☐ Histic Epipedon (A2)
☐ Black Histic (A3)
☐ Hydrogen Sulfide (A4)
☐ Stratified Layers (A5) (LRR C)
☐ 1 cm Muck (A9) (LRR D)
☐ Depleted Below Dark Surface (A11)
☐ Thick Dark Surface (A12)
☐ Sandy Mucky Mineral (S1)
☐ Sandy Gleyed Matrix (S4)

- ☐ Sandy Redox (S5)
☐ Stripped Matrix (S6)
☐ Loamy Mucky Mineral (F1)
☐ Loamy Gleyed Matrix (F2)
☐ Depleted Matrix (F3)
☐ Redox Dark Surface (F6)
☐ Depleted Dark Surface (F7)
☐ Redox Depressions (F8)
☐ Vernal Pools (F9)

Indicators for Problematic Hydric Soils:⁴

- ☐ 1 cm Muck (A9) (LRR C)
☐ 2 cm Muck (A10) (LRR B)
☐ Reduced Vertic (F18)
☐ Red Parent Material (TF2)
☐ Other (Explain in Remarks)

⁴Indicators of hydrophytic vegetation and wetland hydrology must be present.

Restrictive Layer (if present):

Type: _____

Depth (inches): _____

Hydric Soil Present? Yes ☐ No ☒

Remarks:

No true soil development. The tubes are growing in and among the riprap. Unable to sample soil with a pit.

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (any one indicator is sufficient)

- ☒ Surface Water (A1)
☐ High Water Table (A2)
☐ Saturation (A3)
☐ Water Marks (B1) (Nonriverine)
☐ Sediment Deposits (B2) (Nonriverine)
☐ Drift Deposits (B3) (Nonriverine)
☐ Surface Soil Cracks (B6)
☐ Inundation Visible on Aerial Imagery (B7)
☐ Water-Stained Leaves (B9)
☐ Salt Crust (B11)
☐ Biotic Crust (B12)
☐ Aquatic Invertebrates (B13)
☐ Hydrogen Sulfide Odor (C1)
☐ Oxidized Rhizospheres along Living Roots (C3)
☐ Presence of Reduced Iron (C4)
☐ Recent Iron Reduction in Plowed Soils (C6)
☐ Other (Explain in Remarks)

Secondary Indicators (2 or more required)

- ☐ Water Marks (B1) (Riverine)
☐ Sediment Deposits (B2) (Riverine)
☐ Drift Deposits (B3) (Riverine)
☐ Drainage Patterns (B10)
☐ Dry-Season Water Table (C2)
☐ Thin Muck Surface (C7)
☐ Crayfish Burrows (C8)
☐ Saturation Visible on Aerial Imagery (C9)
☐ Shallow Aquitard (D3)
☐ FAC-Neutral Test (D5)

Field Observations:

Surface Water Present? Yes ☒ No ☐ Depth (inches): _____Water Table Present? Yes ☐ No ☐ Depth (inches): _____Saturation Present? (includes capillary fringe) Yes ☐ No ☐ Depth (inches): _____Wetland Hydrology Present? Yes ☒ No ☐

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:

WETLAND DETERMINATION DATA FORM - Arid West Region

Project/Site: 2 Gates/Connection Slough City/County: Bacon Island, San Joaquin Sampling Date: 9/9/08
 Applicant/Owner: Contra Costa Water District State: CA Sampling Point: 29B
 Investigator(s): T. Mahony, A. Richey Section, Township, Range: T2N R4E Sec 22
 Landform (hillslope, terrace, etc.): levee/hillslope Local relief (concave, convex, none): convex Slope (%): 5-10
 Subregion (LRR): C - Mediterranean California Lat: 38° 0' 8.6" Long: 121° 31' 29" Datum: NAD 83
 Soil Map Unit Name: Itano silty clay, partially drained, 0-2% slopes NWI classification:

Are climatic / hydrologic conditions on the site typical for this time of year? Yes ☒ No ☐ (If no, explain in Remarks.)
 Are Vegetation ☐ Soil ☐ or Hydrology ☐ significantly disturbed? Are "Normal Circumstances" present? Yes ☒ No ☐
 Are Vegetation ☐ Soil ☒ or Hydrology ☐ naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>	Is the Sampled Area within a Wetland?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>
Hydric Soil Present?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>			
Wetland Hydrology Present?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>			

Remarks: No true soil development, see remarks for soils section.

VEGETATION

Tree Stratum (Use scientific names.)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:	
1.				Number of Dominant Species That Are OBL, FACW, or FAC:	<u>10</u> (A)
2.				Total Number of Dominant Species Across All Strata:	<u>20</u> (B)
3.				Percent of Dominant Species That Are OBL, FACW, or FAC:	<u>50</u> % (A/B)
4.					
Total Cover: <u> </u> %					
Sapling/Shrub Stratum				Prevalence Index worksheet:	
1.				Total % Cover of:	Multiply by:
2.				OBL species	x 1 = <u>0</u>
3.				FACW species	x 2 = <u>0</u>
4.				FAC species	x 3 = <u>0</u>
5.				FACU species	x 4 = <u>0</u>
Total Cover: <u> </u> %				UPL species	x 5 = <u>0</u>
				Column Totals:	(A) <u>0</u> (B)
Herb Stratum				Prevalence Index = B/A = <u> </u>	
1. <u>Artemisia douglasiana</u>	<u>50</u>	<u>4</u>	<u>FACW</u>	Hydrophytic Vegetation Indicators: <input checked="" type="checkbox"/> Dominance Test is >50% <input checked="" type="checkbox"/> Prevalence Index is ≤3.0 ¹ <input type="checkbox"/> Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) <input type="checkbox"/> Problematic Hydrophytic Vegetation ¹ (Explain)	
2. <u>Cordune pycnocephalus</u>	<u>25</u>	<u>4</u>	<u>NL</u>		
3. <u>Hirschfeldia incana</u>	<u>10</u>				
4.					
5.					
6.					
7.					
8.					
Total Cover: <u> </u> %					
Woody Vine Stratum				¹ Indicators of hydric soil and wetland hydrology must be present.	
1.				Hydrophytic Vegetation Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	
2.					
Total Cover: <u> </u> %					
% Bare Ground in Herb Stratum <u>15</u> %			% Cover of Biotic Crust <u> </u> %		

Remarks:

Sampling Point: 29B

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

[illegible]

¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix. ²Location: PL=Pore Lining, RC=Root Channel, M=Matrix.

³Soil Textures: Clay, Silty Clay, Sandy Clay, Loam, Sandy Clay Loam, Sandy Loam, Clay Loam, Silty Clay Loam, Silt Loam, Silt, Loamy Sand, Sand.

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)

- | | | | |
|--------------------------|---|--------------------------|----------------------------|
| <input type="checkbox"/> | Histosol (A1) | <input type="checkbox"/> | Sandy Redox (S5) |
| <input type="checkbox"/> | Histic Epipedon (A2) | <input type="checkbox"/> | Stripped Matrix (S6) |
| <input type="checkbox"/> | Black Histic (A3) | <input type="checkbox"/> | Loamy Mucky Mineral (F1) |
| <input type="checkbox"/> | Hydrogen Sulfide (A4) | <input type="checkbox"/> | Loamy Gleyed Matrix (F2) |
| <input type="checkbox"/> | Stratified Layers (A5) (LRR C) | <input type="checkbox"/> | Depleted Matrix (F3) |
| <input type="checkbox"/> | 1 cm Muck (A9) (LRR D) | <input type="checkbox"/> | Redox Dark Surface (F6) |
| <input type="checkbox"/> | Depleted Below Dark Surface (A11) | <input type="checkbox"/> | Depleted Dark Surface (F7) |
| <input type="checkbox"/> | Thick Dark Surface (A12) | <input type="checkbox"/> | Redox Depressions (F8) |
| <input type="checkbox"/> | Sandy Mucky Mineral (S1) | <input type="checkbox"/> | Vernal Pools (F9) |
| <input type="checkbox"/> | Sandy Gleyed Matrix (S4) | | |

Indicators for Problematic Hydric Soils:⁴

- ☐ 1 cm Muck (A9) (**LRR C**)
☐ 2 cm Muck (A10) (**LRR B**)
☐ Reduced Vertic (F18)
☐ Red Parent Material (TF2)
☐ Other (Explain in Remarks)

⁴Indicators of hydrophytic vegetation and wetland hydrology must be present.

Restrictive Layer (if present):

Type: _____

Depth (inches): _____

Hydric Soil Present? Yes ☐ No ☒

Remarks: "Soils" are a conglomerate of gravels, rip rap, and soil forming the levee. No true soil development.

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (any one indicator is sufficient)

- | | |
|--|--|
| <input type="checkbox"/> Surface Water (A1) | <input type="checkbox"/> Salt Crust (B11) |
| <input type="checkbox"/> High Water Table (A2) | <input type="checkbox"/> Biotic Crust (B12) |
| <input type="checkbox"/> Saturation (A3) | <input type="checkbox"/> Aquatic Invertebrates (B13) |
| <input type="checkbox"/> Water Marks (B1) (Nonriverine) | <input type="checkbox"/> Hydrogen Sulfide Odor (C1) |
| <input type="checkbox"/> Sediment Deposits (B2) (Nonriverine) | <input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3) |
| <input type="checkbox"/> Drift Deposits (B3) (Nonriverine) | <input type="checkbox"/> Presence of Reduced Iron (C4) |
| <input type="checkbox"/> Surface Soil Cracks (B6) | <input type="checkbox"/> Recent Iron Reduction in Plowed Soils (C6) |
| <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7) | <input type="checkbox"/> Other (Explain in Remarks) |
| <input type="checkbox"/> Water-Stained Leaves (B9) | |

Secondary Indicators (2 or more required)

- ☐ Water Marks (B1) **(Riverine)**
- ☐ Sediment Deposits (B2) **(Riverine)**
- ☐ Drift Deposits (B3) **(Riverine)**
- ☐ Drainage Patterns (B10)
- ☐ Dry-Season Water Table (C2)
- ☐ Thin Muck Surface (C7)
- ☐ Crayfish Burrows (C8)
- ☐ Saturation Visible on Aerial Imagery (C9)
- ☐ Shallow Aquitard (D3)
- ☐ FAC-Neutral Test (D5)

Field Observations:

Surface Water Present? Yes ☐ No ☐ Depth (inches):

Water Table Present? Yes ☐ No ☐ Depth (inches):

Saturation Present? Yes ☐ No ☐ Depth (inches): _____
(includes capillary fringe)

Wetland Hydrology Present? Yes ☐ No ☒

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks: No hydrology indicators observed.