

Appendix 4.8-6
Field Data Forms

DATA FORM
ROUTINE ON-SITE DETERMINATION METHOD

Project/Site: Chula Vista Bayfront Applicant/Owner: Port of San Diego Investigator(s): RECON Env. - Jennifer MacAller, Peter Tomsovic	Date: 3/8/05 County: San Diego State: CA
Do Normal Circumstances exist on the site? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Is the site significantly disturbed (Atypical Situation)? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Is the area a potential Problem Area? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No (if needed, explain on reverse or attach separate sheet.)	Community ID: Seasonal pond Transect ID: Plot ID: 1

VEGETATION

Dominant Plant Species	Stratum	Indicator	Dominant Plant Species	Stratum	Indicator
1. <i>Baccharis salicifolia</i>	S	FACW	9. <i>Sub-dominant::</i>		
2. <i>Bromus madritensis</i>	H	NL	10.		
3. <i>Melilotus indica</i>	H	FAC	11. <i>Mesembryanthemum nodiflorum</i>	H	NL
4. <i>Lythrum hyssopifolium</i>	H	FACW	12. <i>Avena sp.</i>	H	NL
5.			13. <i>Lolium perenne</i>	H	FAC*
6.			14. <i>Tamarisk present in pond</i>	S	
7.			15. <i>Salicornia</i>	H	OBL
8.			16.		
Percent of Dominant Species that are OBL, FACW, or FAC (excluding FAC-) 75%					
Remarks: Bermed area filled with water. Mallards present. 1. Assume presence of wetland vegetation? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No 2. Rooted emergent vegetation present? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No					

HYDROLOGY

<input checked="" type="checkbox"/> Recorded Data (Describe in Remarks): <input type="checkbox"/> Stream, Lake or Tide Gauge <input checked="" type="checkbox"/> Aerial Photographs <input type="checkbox"/> Other <input type="checkbox"/> No Recorded Data Available	Wetland Hydrology Indicators: Primary Indicators: <input checked="" type="checkbox"/> Inundated <input checked="" type="checkbox"/> Saturated in: <input checked="" type="checkbox"/> Upper 12" <input checked="" type="checkbox"/> 13-18" <input type="checkbox"/> Water Marks <input type="checkbox"/> Drift Lines <input type="checkbox"/> Sediment Deposits <input type="checkbox"/> Drainage Patterns in Wetlands Secondary Indicators (2 or more required): <input type="checkbox"/> Oxidized Root Channels in: <input type="checkbox"/> Upper 12" <input type="checkbox"/> 13-18" <input type="checkbox"/> Water-Stained Leaves <input type="checkbox"/> Local Soil Survey Data <input checked="" type="checkbox"/> FAC-Neutral Test <input type="checkbox"/> Other (Explain in Remarks)
Field Observations: Depth of Surface Water: 0 (in.) Depth to Water in Pit: 2 (in.) Depth to Saturated Soil: 0 (in.)	
Observations and Remarks: Aerials from 1996, 2000, 2001, 2003, and 2004 examined for ponding. Test pit is 2 feet from ponded water. 1. Filamentous or sheet forming algae present? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No 2. Slope: <input checked="" type="checkbox"/> 0-2%; or <input type="checkbox"/> >2% 3. Oxidized rhizospheres: <input type="checkbox"/> new roots only; <input type="checkbox"/> old roots only; <input type="checkbox"/> new and old roots, <input checked="" type="checkbox"/> none 4. Flooding: <input type="checkbox"/> none, flooding not probable; <input type="checkbox"/> rare, unlikely but possible under unusual weather conditions; <input type="checkbox"/> occasional, occurs on an average of once or less in 2 years; or <input checked="" type="checkbox"/> frequent, occurs on an average of more than once in 2 years. 5. Duration: <input type="checkbox"/> very brief, if <2 days; <input type="checkbox"/> brief, if 2-7 days, or <input checked="" type="checkbox"/> long, if >7 days 6. Site ponds water? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	

SOILS

Map Unit Name (Series and Phase): Tidal Flats (Tf) Taxonomy (Subgroup):		Drainage Class: Permeability: Runoff: Field Observations: Confirm Mapped Type? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No															
Profile Description:																	
Depth (inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottle Abundance/ Contrast	Texture, Concretions, Structures, etc.												
0-18		10YR 4/3			Gravelly loam (fill)												
Hydric Soil Indicators: <table style="width:100%; border:none;"> <tr> <td><input type="checkbox"/> Histosol</td> <td><input type="checkbox"/> Concretions</td> </tr> <tr> <td><input type="checkbox"/> Histic Epipedon</td> <td><input type="checkbox"/> High Organic Content in Surface Layer in Sandy Soils</td> </tr> <tr> <td><input type="checkbox"/> Sulfidic Odor</td> <td><input type="checkbox"/> Organic Streaking in Sandy Soils</td> </tr> <tr> <td><input type="checkbox"/> Aquic Moisture Regime</td> <td><input type="checkbox"/> Listed on Local Hydric Soils List</td> </tr> <tr> <td><input type="checkbox"/> Reducing Conditions</td> <td><input type="checkbox"/> Listed on National Hydric Soils List</td> </tr> <tr> <td><input type="checkbox"/> Gleyed or Low-Chroma Colors</td> <td><input type="checkbox"/> Other (Explain in Remarks)</td> </tr> </table>						<input type="checkbox"/> Histosol	<input type="checkbox"/> Concretions	<input type="checkbox"/> Histic Epipedon	<input type="checkbox"/> High Organic Content in Surface Layer in Sandy Soils	<input type="checkbox"/> Sulfidic Odor	<input type="checkbox"/> Organic Streaking in Sandy Soils	<input type="checkbox"/> Aquic Moisture Regime	<input type="checkbox"/> Listed on Local Hydric Soils List	<input type="checkbox"/> Reducing Conditions	<input type="checkbox"/> Listed on National Hydric Soils List	<input type="checkbox"/> Gleyed or Low-Chroma Colors	<input type="checkbox"/> Other (Explain in Remarks)
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<input type="checkbox"/> Reducing Conditions	<input type="checkbox"/> Listed on National Hydric Soils List																
<input type="checkbox"/> Gleyed or Low-Chroma Colors	<input type="checkbox"/> Other (Explain in Remarks)																
<i>Observations and Remarks: Evidence of hydric soil not observed due to fill soil.</i> 1. <i>Smell:</i> <input checked="" type="checkbox"/> Neutral; <input type="checkbox"/> Slightly fresh; or <input type="checkbox"/> Freshly plowed field smell 2. <i>Site:</i> <input type="checkbox"/> Irrigated; <input type="checkbox"/> Land leveled; <input type="checkbox"/> Ditch drained; <input type="checkbox"/> Pumped; <input type="checkbox"/> Graded to drain via slope 3. <i>Soils:</i> <input checked="" type="checkbox"/> do <input type="checkbox"/> do not become frequently ponded or saturated for long (>7 days) to very long durations (>30 days) during the growing season																	

WETLAND DETERMINATION

Hydrophytic Vegetation Present? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Wetland Hydrology Present? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Hydric Soils Present? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Is this Sampling Point within a Wetland? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
<i>Remarks:</i> 1. <i>Possibly water of the U.S.?</i> <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No 2. <i>Possibly exempt from Corps/EPA Regulation?</i> <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No (If yes, check item(s) below.) (a) <input type="checkbox"/> Non-tidal drainage and irrigation ditches excavated on dry land (b) <input type="checkbox"/> Artificially irrigated areas which would revert to upland if the irrigation ceased. (c) <input type="checkbox"/> Artificial lakes or ponds created by excavating and/or diking dry land to collect and retain water and which are used exclusively for such purposes as stock watering, irrigation, settling basins, or rice growing. (d) <input type="checkbox"/> Artificial reflecting or swimming pools or other small ornamental bodies of water created by excavating and/or diking dry land to retain water for primarily aesthetic reasons. (e) <input type="checkbox"/> Water-filled depressions created in dry land incidental to construction activity and pits excavated in dry land for the purpose of obtaining fill, sand, or gravel unless and until the construction or excavation operation is abandoned and the resulting body of water meets the definition of waters of the United States (see 33 CFR 328.3(a)).	

Approved by HQUSACE 3/92

Additional Comments/Remarks: Isolated pond created by construction of a berm on fill soil. Previous years' aerals show limited ponding. Area does pond in normal rain year, but does not appear to pond to this extent. Pond appears isolated and may be exempt from Corps jurisdiction as it was bermed for stormwater control. CDFG jurisdictional. Revisited in December 2005: area dry and remapped based on prevalence of hydrophytic vegetation. Small upland hummocks removed from interior spaces of larger pond.

**DATA FORM
ROUTINE ON-SITE DETERMINATION METHOD**

Project/Site: Chula Vista Bayfront Applicant/Owner: Port of San Diego Investigator(s): RECON Env. - Jennifer MacAller, Peter Tomsovic	Date: 3/8/05 County: San Diego State: CA
Do Normal Circumstances exist on the site? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Is the site significantly disturbed (Atypical Situation)? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Is the area a potential Problem Area? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No (if needed, explain on reverse or attach separate sheet.)	Community ID: Seasonal pond Transect ID: Plot ID: 2

VEGETATION

Dominant Plant Species	Stratum	Indicator	Dominant Plant Species	Stratum	Indicator
1. <i>Lythrum hyssopifolium</i>	H	FACW	9.		
2. <i>Tamarisk sp. (adjacent)</i>	S	NL	10.		
3. <i>Polypogon monspeliensis</i>	H	FACW+	11.		
4. <i>Juncus bufonius</i>	H	FACW+	12.		
5.			13.		
6.			14.		
7.			15.		
8.			16.		

Percent of Dominant Species that are OBL, FACW, or FAC (excluding FAC-) 75%

Remarks: **Bermed area filled with water. Tamarisk in center of pond.**

1. Assume presence of wetland vegetation? Yes No
 2. Rooted emergent vegetation present? Yes No

HYDROLOGY

<input checked="" type="checkbox"/> Recorded Data (Describe in Remarks): <input type="checkbox"/> Stream, Lake or Tide Gauge <input checked="" type="checkbox"/> Aerial Photographs <input type="checkbox"/> Other <input type="checkbox"/> No Recorded Data Available	Wetland Hydrology Indicators: Primary Indicators: <input checked="" type="checkbox"/> Inundated <input checked="" type="checkbox"/> Saturated in: <input checked="" type="checkbox"/> Upper 12" <input checked="" type="checkbox"/> 13-18" <input type="checkbox"/> Water Marks <input type="checkbox"/> Drift Lines <input type="checkbox"/> Sediment Deposits <input type="checkbox"/> Drainage Patterns in Wetlands Secondary Indicators (2 or more required): <input type="checkbox"/> Oxidized Root Channels in: <input type="checkbox"/> Upper 12" <input type="checkbox"/> 13-18" <input type="checkbox"/> Water-Stained Leaves <input type="checkbox"/> Local Soil Survey Data <input checked="" type="checkbox"/> FAC-Neutral Test <input type="checkbox"/> Other (Explain in Remarks)
Field Observations: Depth of Surface Water: <u>3</u> (in.) Depth to Water in Pit: <u>0</u> (in.) Depth to Saturated Soil: <u>0</u> (in.)	
<p>Observations and Remarks: Aerials from 1996, 2000, 2001, 2003, and 2004 examined for ponding.</p> 1. Filamentous or sheet forming algae present? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No 2. Slope: <input checked="" type="checkbox"/> 0-2%; or <input type="checkbox"/> >2% 3. Oxidized rhizospheres: <input type="checkbox"/> new roots only; <input type="checkbox"/> old roots only; <input type="checkbox"/> new and old roots, <input checked="" type="checkbox"/> none 4. Flooding: <input type="checkbox"/> none, flooding not probable; <input checked="" type="checkbox"/> rare, unlikely but possible under unusual weather conditions; <input type="checkbox"/> occasional, occurs on an average of once or less in 2 years; or <input type="checkbox"/> frequent, occurs on an average of more than once in 2 years. 5. Duration: <input type="checkbox"/> very brief, if <2 days; <input type="checkbox"/> brief, if 2-7 days, or <input checked="" type="checkbox"/> long, if >7 days 6. Site ponds water? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	

SOILS

Map Unit Name (Series and Phase): Tidal Flats (Tf) Taxonomy (Subgroup):		Drainage Class: Permeability: Runoff: Field Observations: Confirm Mapped Type? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No															
Profile Description:																	
Depth (inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottle Abundance/ Contrast	Texture, Concretions, Structures, etc.												
	No Pit (Inundated)				Fill soil												
Hydric Soil Indicators: <table style="width:100%; border:none;"> <tr> <td><input type="checkbox"/> Histosol</td> <td><input type="checkbox"/> Concretions</td> </tr> <tr> <td><input type="checkbox"/> Histic Epipedon</td> <td><input type="checkbox"/> High Organic Content in Surface Layer in Sandy Soils</td> </tr> <tr> <td><input type="checkbox"/> Sulfidic Odor</td> <td><input type="checkbox"/> Organic Streaking in Sandy Soils</td> </tr> <tr> <td><input type="checkbox"/> Aquic Moisture Regime</td> <td><input type="checkbox"/> Listed on Local Hydric Soils List</td> </tr> <tr> <td><input type="checkbox"/> Reducing Conditions</td> <td><input type="checkbox"/> Listed on National Hydric Soils List</td> </tr> <tr> <td><input type="checkbox"/> Gleyed or Low-Chroma Colors</td> <td><input type="checkbox"/> Other (Explain in Remarks)</td> </tr> </table>						<input type="checkbox"/> Histosol	<input type="checkbox"/> Concretions	<input type="checkbox"/> Histic Epipedon	<input type="checkbox"/> High Organic Content in Surface Layer in Sandy Soils	<input type="checkbox"/> Sulfidic Odor	<input type="checkbox"/> Organic Streaking in Sandy Soils	<input type="checkbox"/> Aquic Moisture Regime	<input type="checkbox"/> Listed on Local Hydric Soils List	<input type="checkbox"/> Reducing Conditions	<input type="checkbox"/> Listed on National Hydric Soils List	<input type="checkbox"/> Gleyed or Low-Chroma Colors	<input type="checkbox"/> Other (Explain in Remarks)
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<input type="checkbox"/> Gleyed or Low-Chroma Colors	<input type="checkbox"/> Other (Explain in Remarks)																
Observations and Remarks: Hydric soils would not likely be apparent in fill soil - Atypical situation. 1. Smell: <input checked="" type="checkbox"/> Neutral; <input type="checkbox"/> Slightly fresh; or <input type="checkbox"/> Freshly plowed field smell 2. Site: <input type="checkbox"/> Irrigated; <input type="checkbox"/> Land leveled; <input type="checkbox"/> Ditch drained; <input type="checkbox"/> Pumped; <input type="checkbox"/> Graded to drain via slope 3. Soils: <input checked="" type="checkbox"/> do <input type="checkbox"/> do not become frequently ponded or saturated for long (>7 days) to very long durations (>30 days) during the growing season																	

WETLAND DETERMINATION

Hydrophytic Vegetation Present? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Wetland Hydrology Present? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Hydric Soils Present? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Is this Sampling Point within a Wetland? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Remarks: 1. Possibly water of the U.S.? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No 2. Possibly exempt from Corps/EPA Regulation? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No (If yes, check item(s) below.) (a) <input type="checkbox"/> Non-tidal drainage and irrigation ditches excavated on dry land (b) <input type="checkbox"/> Artificially irrigated areas which would revert to upland if the irrigation ceased. (c) <input type="checkbox"/> Artificial lakes or ponds created by excavating and/or diking dry land to collect and retain water and which are used exclusively for such purposes as stock watering, irrigation, settling basins, or rice growing. (d) <input type="checkbox"/> Artificial reflecting or swimming pools or other small ornamental bodies of water created by excavating and/or diking dry land to retain water for primarily aesthetic reasons. (e) <input type="checkbox"/> Water-filled depressions created in dry land incidental to construction activity and pits excavated in dry land for the purpose of obtaining fill, sand, or gravel unless and until the construction or excavation operation is abandoned and the resulting body of water meets the definition of waters of the United States (see 33 CFR 328.3(a)).	

Approved by HQUSACE 3/92

Additional Comments/Remarks: Isolated pond created by construction of a berm on fill soil. Previous years' aerals show limited ponding. Area does pond in normal rain year, but may not pond to this extent. Pond appears isolated and may be exempt from Corps jurisdiction. CDFG jurisdictional. Site revisited in December 2005: no surface water. Prevalence of hydrophytic vegetation is apparent.

**DATA FORM
ROUTINE ON-SITE DETERMINATION METHOD**

Project/Site: Chula Vista Bayfront Applicant/Owner: Port of San Diego Investigator(s): RECON Env. - Jennifer MacAller, Peter Tomsovic	Date: 3/8/05 County: San Diego State: CA
Do Normal Circumstances exist on the site? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Is the site significantly disturbed (Atypical Situation)? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Is the area a potential Problem Area? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No (if needed, explain on reverse or attach separate sheet.)	Community ID: Seasonal pond Transect ID: Plot ID: 3

VEGETATION

Dominant Plant Species	Stratum	Indicator	Dominant Plant Species	Stratum	Indicator
1. <i>Lythrum hyssopifolium</i>	H	FACW	9.		
2.			10.		
3.			11.		
4.			12.		
5.			13.		
6.			14.		
7.			15.		
8.			16.		

Percent of Dominant Species that are OBL, FACW, or FAC (excluding FAC-) 100% (see note below)

Remarks: **Sample point is shallow depression along gravel road. Site revisited in December 2005 and was dominated by Erodium (NL). Lythrum is still present, but not dominant.**

1. Assume presence of wetland vegetation? Yes No
 2. Rooted emergent vegetation present? Yes No

HYDROLOGY

<input checked="" type="checkbox"/> Recorded Data (Describe in Remarks): <input type="checkbox"/> Stream, Lake or Tide Gauge <input checked="" type="checkbox"/> Aerial Photographs <input type="checkbox"/> Other <input type="checkbox"/> No Recorded Data Available	Wetland Hydrology Indicators: Primary Indicators: <input checked="" type="checkbox"/> Inundated <input checked="" type="checkbox"/> Saturated in: <input checked="" type="checkbox"/> Upper 12" <input type="checkbox"/> 13-18" <input type="checkbox"/> Water Marks <input type="checkbox"/> Drift Lines <input type="checkbox"/> Sediment Deposits <input type="checkbox"/> Drainage Patterns in Wetlands Secondary Indicators (2 or more required): <input type="checkbox"/> Oxidized Root Channels in: <input type="checkbox"/> Upper 12" <input type="checkbox"/> 13-18" <input type="checkbox"/> Water-Stained Leaves <input type="checkbox"/> Local Soil Survey Data <input checked="" type="checkbox"/> FAC-Neutral Test <input type="checkbox"/> Other (Explain in Remarks)
Field Observations: Depth of Surface Water: 4 (in.) Depth to Water in Pit: - (in.) Depth to Saturated Soil: - (in.)	
<p>Observations and Remarks: Aerials from 1996, 2000, 2001, 2003, and 2004 examined for ponding.</p> 1. Filamentous or sheet forming algae present? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No 2. Slope: <input checked="" type="checkbox"/> 0-2%; or <input type="checkbox"/> >2% 3. Oxidized rhizospheres: <input type="checkbox"/> new roots only; <input type="checkbox"/> old roots only; <input type="checkbox"/> new and old roots, <input checked="" type="checkbox"/> none 4. Flooding: <input type="checkbox"/> none, flooding not probable; <input type="checkbox"/> rare, unlikely but possible under unusual weather conditions; <input checked="" type="checkbox"/> occasional, occurs on an average of once or less in 2 years; or <input type="checkbox"/> frequent, occurs on an average of more than once in 2 years. 5. Duration: <input type="checkbox"/> very brief, if <2 days; <input type="checkbox"/> brief, if 2-7 days, or <input checked="" type="checkbox"/> long, if >7 days 6. Site ponds water? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	

SOILS

Map Unit Name (Series and Phase): Tidal Flats (Tf)		Drainage Class: Permeability: Runoff: Field Observations: Confirm Mapped Type? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No															
Taxonomy (Subgroup):																	
Profile Description:																	
Depth (inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottle Abundance/ Contrast	Texture, Concretions, Structures, etc.												
	No Pit (Inundated)				Broken asphalt, gravel												
Hydric Soil Indicators: <table style="width:100%; border:none;"> <tr> <td><input type="checkbox"/> Histosol</td> <td><input type="checkbox"/> Concretions</td> </tr> <tr> <td><input type="checkbox"/> Histic Epipedon</td> <td><input type="checkbox"/> High Organic Content in Surface Layer in Sandy Soils</td> </tr> <tr> <td><input type="checkbox"/> Sulfidic Odor</td> <td><input type="checkbox"/> Organic Streaking in Sandy Soils</td> </tr> <tr> <td><input type="checkbox"/> Aquic Moisture Regime</td> <td><input type="checkbox"/> Listed on Local Hydric Soils List</td> </tr> <tr> <td><input type="checkbox"/> Reducing Conditions</td> <td><input type="checkbox"/> Listed on National Hydric Soils List</td> </tr> <tr> <td><input type="checkbox"/> Gleyed or Low-Chroma Colors</td> <td><input checked="" type="checkbox"/> Other (Explain in Remarks)</td> </tr> </table>						<input type="checkbox"/> Histosol	<input type="checkbox"/> Concretions	<input type="checkbox"/> Histic Epipedon	<input type="checkbox"/> High Organic Content in Surface Layer in Sandy Soils	<input type="checkbox"/> Sulfidic Odor	<input type="checkbox"/> Organic Streaking in Sandy Soils	<input type="checkbox"/> Aquic Moisture Regime	<input type="checkbox"/> Listed on Local Hydric Soils List	<input type="checkbox"/> Reducing Conditions	<input type="checkbox"/> Listed on National Hydric Soils List	<input type="checkbox"/> Gleyed or Low-Chroma Colors	<input checked="" type="checkbox"/> Other (Explain in Remarks)
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<input type="checkbox"/> Gleyed or Low-Chroma Colors	<input checked="" type="checkbox"/> Other (Explain in Remarks)																
<i>Observations and Remarks: Fill material. Due to the nature of the soil, hydric soil indicators have probably not had time to develop.</i>																	
1. Smell: <input type="checkbox"/> Neutral; <input type="checkbox"/> Slightly fresh; or <input type="checkbox"/> Freshly plowed field smell 2. Site: <input type="checkbox"/> Irrigated; <input type="checkbox"/> Land leveled; <input type="checkbox"/> Ditch drained; <input type="checkbox"/> Pumped; <input type="checkbox"/> Graded to drain via slope 3. Soils: <input checked="" type="checkbox"/> do <input type="checkbox"/> do not become frequently ponded or saturated for long (>7 days) to very long durations (>30 days) during the growing season																	

WETLAND DETERMINATION

Hydrophytic Vegetation Present? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Wetland Hydrology Present? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Hydric Soils Present? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Is this Sampling Point within a Wetland? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Remarks: <ol style="list-style-type: none"> 1. Possibly water of the U.S.? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No 2. Possibly exempt from Corps/EPA Regulation? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No (If yes, check item(s) below.) <ol style="list-style-type: none"> (a) <input type="checkbox"/> Non-tidal drainage and irrigation ditches excavated on dry land (b) <input type="checkbox"/> Artificially irrigated areas which would revert to upland if the irrigation ceased. (c) <input type="checkbox"/> Artificial lakes or ponds created by excavating and/or diking dry land to collect and retain water and which are used exclusively for such purposes as stock watering, irrigation, settling basins, or rice growing. (d) <input type="checkbox"/> Artificial reflecting or swimming pools or other small ornamental bodies of water created by excavating and/or diking dry land to retain water for primarily aesthetic reasons. (e) <input type="checkbox"/> Water-filled depressions created in dry land incidental to construction activity and pits excavated in dry land for the purpose of obtaining fill, sand, or gravel unless and until the construction or excavation operation is abandoned and the resulting body of water meets the definition of waters of the United States (see 33 CFR 328.3(a)). 	

Approved by HQUSACE 3/92

Additional Comments/Remarks: **Isolated seasonal wetland created by ponding within a shallow depression along an abandoned road. Ponding is likely due to impermeable road bed and compacted surrounding area. Soil is broken asphalt and compacted fill material. Hydric soil indicators not present and not likely to form under existing conditions. Revisited in December 2005 and removed from mapping as the hydrophytic vegetation is no longer dominant. Lythrum is present but not dominant.**

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ROUTINE ON-SITE DETERMINATION METHOD

Project/Site: Chula Vista Bayfront Applicant/Owner: Port of San Diego Investigator(s): RECON Env. - Jennifer MacAller, Peter Tomsovic	Date: 3/8/05 County: San Diego State: CA
Do Normal Circumstances exist on the site? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Is the site significantly disturbed (Atypical Situation)? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Is the area a potential Problem Area? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No (if needed, explain on reverse or attach separate sheet.)	Community ID: Seasonal Pond Transect ID: Plot ID: 4

VEGETATION

Dominant Plant Species	Stratum	Indicator	Dominant Plant Species	Stratum	Indicator
1. <i>Lythrum hyssopifolium</i>	H	FACW	9. <i>sub-dominant</i>		
2.			10.		
3.			11. <i>Baccharis salicifolia</i>	S	FACW
4.			12.		
5.			13.		
6.			14.		
7.			15.		
8.			16.		

Percent of Dominant Species that are OBL, FACW, or FAC (excluding FAC-) 100%

Remarks: **Shallow depression filled with water. Lythrum present in standing water**

1. Assume presence of wetland vegetation? Yes No
 2. Rooted emergent vegetation present? Yes No

HYDROLOGY

<input checked="" type="checkbox"/> Recorded Data (Describe in Remarks): <input type="checkbox"/> Stream, Lake or Tide Gauge <input checked="" type="checkbox"/> Aerial Photographs <input type="checkbox"/> Other <input type="checkbox"/> No Recorded Data Available	Wetland Hydrology Indicators: Primary Indicators: <input checked="" type="checkbox"/> Inundated <input checked="" type="checkbox"/> Saturated in: <input checked="" type="checkbox"/> Upper 12" <input checked="" type="checkbox"/> 13-18" <input type="checkbox"/> Water Marks <input type="checkbox"/> Drift Lines <input type="checkbox"/> Sediment Deposits <input type="checkbox"/> Drainage Patterns in Wetlands Secondary Indicators (2 or more required): <input type="checkbox"/> Oxidized Root Channels in: <input type="checkbox"/> Upper 12" <input type="checkbox"/> 13-18" <input type="checkbox"/> Water-Stained Leaves <input type="checkbox"/> Local Soil Survey Data <input checked="" type="checkbox"/> FAC-Neutral Test <input type="checkbox"/> Other (Explain in Remarks)
Field Observations: Depth of Surface Water: 3 (in.) Depth to Water in Pit: - (in.) Depth to Saturated Soil: - (in.)	
Observations and Remarks: Aerials from 1996, 2000, 2001, 2003, and 2004 examined for ponding. 1. Filamentous or sheet forming algae present? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No 2. Slope: <input checked="" type="checkbox"/> 0-2%; or <input type="checkbox"/> >2% 3. Oxidized rhizospheres: <input type="checkbox"/> new roots only; <input type="checkbox"/> old roots only; <input type="checkbox"/> new and old roots, <input checked="" type="checkbox"/> none 4. Flooding: <input type="checkbox"/> none, flooding not probable; <input checked="" type="checkbox"/> rare, unlikely but possible under unusual weather conditions; <input type="checkbox"/> occasional, occurs on an average of once or less in 2 years; or <input type="checkbox"/> frequent, occurs on an average of more than once in 2 years. 5. Duration: <input type="checkbox"/> very brief, if <2 days; <input type="checkbox"/> brief, if 2-7 days, or <input checked="" type="checkbox"/> long, if >7 days 6. Site ponds water? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	

SOILS

Map Unit Name (Series and Phase): Tidal Flats (Tf)		Drainage Class: Permeability: Runoff: Field Observations: Confirm Mapped Type? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No			
Taxonomy (Subgroup):					
Profile Description:					
Depth (inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottle Abundance/ Contrast	Texture, Concretions, Structures, etc.
0-3		10YR 4/3			Sandy gravelly loam
3+		--			Impenetratable gravel
Hydric Soil Indicators:					
<input type="checkbox"/> Histosol <input type="checkbox"/> Histic Epipedon <input type="checkbox"/> Sulfidic Odor <input type="checkbox"/> Aquic Moisture Regime <input type="checkbox"/> Reducing Conditions <input type="checkbox"/> Gleyed or Low-Chroma Colors		<input type="checkbox"/> Concretions <input type="checkbox"/> High Organic Content in Surface Layer in Sandy Soils <input type="checkbox"/> Organic Streaking in Sandy Soils <input type="checkbox"/> Listed on Local Hydric Soils List <input type="checkbox"/> Listed on National Hydric Soils List <input checked="" type="checkbox"/> Other (Explain in Remarks)			
<i>Observations and Remarks: Fill material. Due to the nature of the soil, hydric soil indicators have probably not had time to develop. Hydric conditions exist.</i> 1. Smell: <input checked="" type="checkbox"/> Neutral; <input type="checkbox"/> Slightly fresh; or <input type="checkbox"/> Freshly plowed field smell 2. Site: <input type="checkbox"/> Irrigated; <input type="checkbox"/> Land leveled; <input checked="" type="checkbox"/> Ditch drained; <input type="checkbox"/> Pumped; <input type="checkbox"/> Graded to drain via slope 3. Soils: <input checked="" type="checkbox"/> do <input type="checkbox"/> do not become frequently ponded or saturated for long (>7 days) to very long durations (>30 days) during the growing season					

WETLAND DETERMINATION

Hydrophytic Vegetation Present? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Is this Sampling Point within a Wetland? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Wetland Hydrology Present? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
Hydric Soils Present? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
Remarks: 1. Possibly water of the U.S.? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No 2. Possibly exempt from Corps/EPA Regulation? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No (If yes, check item(s) below.) (a) <input type="checkbox"/> Non-tidal drainage and irrigation ditches excavated on dry land (b) <input type="checkbox"/> Artificially irrigated areas which would revert to upland if the irrigation ceased. (c) <input type="checkbox"/> Artificial lakes or ponds created by excavating and/or diking dry land to collect and retain water and which are used exclusively for such purposes as stock watering, irrigation, settling basins, or rice growing. (d) <input type="checkbox"/> Artificial reflecting or swimming pools or other small ornamental bodies of water created by excavating and/or diking dry land to retain water for primarily aesthetic reasons. (e) <input type="checkbox"/> Water-filled depressions created in dry land incidental to construction activity and pits excavated in dry land for the purpose of obtaining fill, sand, or gravel unless and until the construction or excavation operation is abandoned and the resulting body of water meets the definition of waters of the United States (see 33 CFR 328.3(a)).	

Approved by HQUSACE 3/92

Additional Comments/Remarks: **Seasonal ponding over fill soil. May be exempt from USACE jurisdiction due to isolation. CDFG jurisdictional. Revisited in December 2005: obvious patch of Lythrum apparent. Cracked soil.**

DATA FORM
ROUTINE ON-SITE DETERMINATION METHOD

Project/Site: Chula Vista Bayfront Applicant/Owner: Port of San Diego Investigator(s): RECON Env. - Jennifer MacAller, Peter Tomsovic	Date: 3/8/05 County: San Diego State: CA
Do Normal Circumstances exist on the site? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Is the site significantly disturbed (Atypical Situation)? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Is the area a potential Problem Area? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No (if needed, explain on reverse or attach separate sheet.)	Community ID: Seasonal pond Transect ID: Plot ID: 5

VEGETATION

Dominant Plant Species	Stratum	Indicator	Dominant Plant Species	Stratum	Indicator
1. <i>Lythrum hyssopifolium</i>	H	FACW	9. <i>Sub-dominant</i>		
2. <i>Polygonum monspeliensis</i>	H	FACW+	10.		
3. <i>Hordeum murinum</i>	H	UPL	11. <i>Lolium perenne</i>	H	FAC*
4.			12. <i>Avena sp.</i>	H	NL
5.			13. <i>Bromus sp. (on bank)</i>	H	NL
6.			14.		
7.			15.		
8.			16.		

Percent of Dominant Species that are OBL, FACW, or FAC (excluding FAC-) 66%

Remarks: **Shallow depression ponded (March 2005). In December 2005, Marsilea vestita (OBL) dominant in dry pond.**

1. Assume presence of wetland vegetation? Yes No
 2. Rooted emergent vegetation present? Yes No

HYDROLOGY

<input type="checkbox"/> Recorded Data (Describe in Remarks): <input type="checkbox"/> Stream, Lake or Tide Gauge <input checked="" type="checkbox"/> Aerial Photographs <input type="checkbox"/> Other <input type="checkbox"/> No Recorded Data Available	Wetland Hydrology Indicators: Primary Indicators: <input checked="" type="checkbox"/> Inundated <input checked="" type="checkbox"/> Saturated in: <input checked="" type="checkbox"/> Upper 12" <input checked="" type="checkbox"/> 13-18" <input type="checkbox"/> Water Marks <input type="checkbox"/> Drift Lines <input type="checkbox"/> Sediment Deposits <input type="checkbox"/> Drainage Patterns in Wetlands Secondary Indicators (2 or more required): <input type="checkbox"/> Oxidized Root Channels in: <input type="checkbox"/> Upper 12" <input type="checkbox"/> 13-18" <input type="checkbox"/> Water-Stained Leaves <input type="checkbox"/> Local Soil Survey Data <input checked="" type="checkbox"/> FAC-Neutral Test <input type="checkbox"/> Other (Explain in Remarks)
Field Observations: Depth of Surface Water: 4 (in.) Depth to Water in Pit: - (in.) Depth to Saturated Soil: - (in.)	
Observations and Remarks: 1. Filamentous or sheet forming algae present? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No 2. Slope: <input checked="" type="checkbox"/> 0-2%; or <input type="checkbox"/> >2% 3. Oxidized rhizospheres: <input type="checkbox"/> new roots only; <input type="checkbox"/> old roots only; <input type="checkbox"/> new and old roots, <input checked="" type="checkbox"/> none 4. Flooding: <input type="checkbox"/> none, flooding not probable; <input type="checkbox"/> rare, unlikely but possible under unusual weather conditions; <input checked="" type="checkbox"/> occasional, occurs on an average of once or less in 2 years; or <input type="checkbox"/> frequent, occurs on an average of more than once in 2 years. 5. Duration: <input type="checkbox"/> very brief, if <2 days; <input type="checkbox"/> brief, if 2-7 days, or <input checked="" type="checkbox"/> long, if >7 days 6. Site ponds water? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	

SOILS

Map Unit Name (Series and Phase): Tidal Flats (Tf) Taxonomy (Subgroup):		Drainage Class: Permeability: Runoff: Field Observations: Confirm Mapped Type? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No															
Profile Description:																	
Depth (inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottle Abundance/ Contrast	Texture, Concretions, Structures, etc.												
0-18		10YR 4/3			Sandy gravelly loam (fill)												
Hydric Soil Indicators: <table style="width:100%; border:none;"> <tr> <td><input type="checkbox"/> Histosol</td> <td><input type="checkbox"/> Concretions</td> </tr> <tr> <td><input type="checkbox"/> Histic Epipedon</td> <td><input type="checkbox"/> High Organic Content in Surface Layer in Sandy Soils</td> </tr> <tr> <td><input type="checkbox"/> Sulfidic Odor</td> <td><input type="checkbox"/> Organic Streaking in Sandy Soils</td> </tr> <tr> <td><input type="checkbox"/> Aquic Moisture Regime</td> <td><input type="checkbox"/> Listed on Local Hydric Soils List</td> </tr> <tr> <td><input type="checkbox"/> Reducing Conditions</td> <td><input type="checkbox"/> Listed on National Hydric Soils List</td> </tr> <tr> <td><input type="checkbox"/> Gleyed or Low-Chroma Colors</td> <td><input checked="" type="checkbox"/> Other (Explain in Remarks)</td> </tr> </table>						<input type="checkbox"/> Histosol	<input type="checkbox"/> Concretions	<input type="checkbox"/> Histic Epipedon	<input type="checkbox"/> High Organic Content in Surface Layer in Sandy Soils	<input type="checkbox"/> Sulfidic Odor	<input type="checkbox"/> Organic Streaking in Sandy Soils	<input type="checkbox"/> Aquic Moisture Regime	<input type="checkbox"/> Listed on Local Hydric Soils List	<input type="checkbox"/> Reducing Conditions	<input type="checkbox"/> Listed on National Hydric Soils List	<input type="checkbox"/> Gleyed or Low-Chroma Colors	<input checked="" type="checkbox"/> Other (Explain in Remarks)
<input type="checkbox"/> Histosol	<input type="checkbox"/> Concretions																
<input type="checkbox"/> Histic Epipedon	<input type="checkbox"/> High Organic Content in Surface Layer in Sandy Soils																
<input type="checkbox"/> Sulfidic Odor	<input type="checkbox"/> Organic Streaking in Sandy Soils																
<input type="checkbox"/> Aquic Moisture Regime	<input type="checkbox"/> Listed on Local Hydric Soils List																
<input type="checkbox"/> Reducing Conditions	<input type="checkbox"/> Listed on National Hydric Soils List																
<input type="checkbox"/> Gleyed or Low-Chroma Colors	<input checked="" type="checkbox"/> Other (Explain in Remarks)																
Observations and Remarks: Soil composition appears to be fill soil. Due to the nature of the soil, hydric soil indicators have probably not had time to develop. Hydric conditions exist.																	
1. Smell: <input checked="" type="checkbox"/> Neutral; <input type="checkbox"/> Slightly fresh; or <input type="checkbox"/> Freshly plowed field smell 2. Site: <input type="checkbox"/> Irrigated; <input type="checkbox"/> Land leveled; <input type="checkbox"/> Ditch drained; <input type="checkbox"/> Pumped; <input type="checkbox"/> Graded to drain via slope 3. Soils: <input checked="" type="checkbox"/> do <input type="checkbox"/> do not become frequently ponded or saturated for long (>7 days) to very long durations (>30 days) during the growing season																	

WETLAND DETERMINATION

Hydrophytic Vegetation Present? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Wetland Hydrology Present? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Hydric Soils Present? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Is this Sampling Point within a Wetland? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Remarks: 1. Possibly water of the U.S.? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No 2. Possibly exempt from Corps/EPA Regulation? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No (If yes, check item(s) below.) (a) <input type="checkbox"/> Non-tidal drainage and irrigation ditches excavated on dry land (b) <input type="checkbox"/> Artificially irrigated areas which would revert to upland if the irrigation ceased. (c) <input type="checkbox"/> Artificial lakes or ponds created by excavating and/or diking dry land to collect and retain water and which are used exclusively for such purposes as stock watering, irrigation, settling basins, or rice growing. (d) <input type="checkbox"/> Artificial reflecting or swimming pools or other small ornamental bodies of water created by excavating and/or diking dry land to retain water for primarily aesthetic reasons. (e) <input type="checkbox"/> Water-filled depressions created in dry land incidental to construction activity and pits excavated in dry land for the purpose of obtaining fill, sand, or gravel unless and until the construction or excavation operation is abandoned and the resulting body of water meets the definition of waters of the United States (see 33 CFR 328.3(a)).	

Approved by HQUSACE 3/92

Additional Comments/Remarks: **May be exempt from USACE jurisdiction due to isolation. CDFG jurisdictional. Revisited in December 2005: Lythrum and Marsilea dominant. Cracked soil.**

DATA FORM
ROUTINE ON-SITE DETERMINATION METHOD

Project/Site: Chula Vista Bayfront Applicant/Owner: Port of San Diego Investigator(s): RECON Env. - Jennifer MacAller, Peter Tomsovic	Date: 3/8/05 County: San Diego State: CA
Do Normal Circumstances exist on the site? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Is the site significantly disturbed (Atypical Situation)? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Is the area a potential Problem Area? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No (if needed, explain on reverse or attach separate sheet.)	Community ID: Seasonal pond Transect ID: Plot ID: 6

VEGETATION

Dominant Plant Species	Stratum	Indicator	Dominant Plant Species	Stratum	Indicator
1. <i>Lythrum hyssopifolium</i>	H	FACW	9.		
2. <i>Lolium multiflorum</i>	H	NL (FAC)	10.		
3.			11.		
4.			12.		
5.			13.		
6.			14.		
7.			15.		
8.			16.		

Percent of Dominant Species that are OBL, FACW, or FAC (excluding FAC-) 100% (see note below)

Remarks: **Shallow depression filled with water. Site revisited in December 2005 and area was overgrown with non-native grasses Bromus (NL) and Hordeum (NL). Hydrophytic species no longer dominant.**

1. Assume presence of wetland vegetation? Yes No
 2. Rooted emergent vegetation present? Yes No

HYDROLOGY

<input type="checkbox"/> Recorded Data (Describe in Remarks): <input type="checkbox"/> Stream, Lake or Tide Gauge <input checked="" type="checkbox"/> Aerial Photographs <input type="checkbox"/> Other <input type="checkbox"/> No Recorded Data Available	Wetland Hydrology Indicators: Primary Indicators: <input checked="" type="checkbox"/> Inundated <input checked="" type="checkbox"/> Saturated in: <input checked="" type="checkbox"/> Upper 12" <input checked="" type="checkbox"/> 13-18" <input type="checkbox"/> Water Marks <input type="checkbox"/> Drift Lines <input type="checkbox"/> Sediment Deposits <input type="checkbox"/> Drainage Patterns in Wetlands Secondary Indicators (2 or more required): <input checked="" type="checkbox"/> Oxidized Root Channels in: <input checked="" type="checkbox"/> Upper 12" <input checked="" type="checkbox"/> 13-18" <input type="checkbox"/> Water-Stained Leaves <input type="checkbox"/> Local Soil Survey Data <input type="checkbox"/> FAC-Neutral Test <input type="checkbox"/> Other (Explain in Remarks)
Field Observations: Depth of Surface Water: <u>1</u> (in.) Depth to Water in Pit: <u>0</u> (in.) Depth to Saturated Soil: <u>0</u> (in.)	
Observations and Remarks: 1. Filamentous or sheet forming algae present? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No 2. Slope: <input checked="" type="checkbox"/> 0-2%; or <input type="checkbox"/> >2% 3. Oxidized rhizospheres: <input type="checkbox"/> new roots only; <input type="checkbox"/> old roots only; <input checked="" type="checkbox"/> new and old roots, <input type="checkbox"/> none 4. Flooding: <input type="checkbox"/> none, flooding not probable; <input type="checkbox"/> rare, unlikely but possible under unusual weather conditions; <input type="checkbox"/> occasional, occurs on an average of once or less in 2 years; or <input checked="" type="checkbox"/> frequent, occurs on an average of more than once in 2 years. 5. Duration: <input type="checkbox"/> very brief, if <2 days; <input type="checkbox"/> brief, if 2-7 days, or <input checked="" type="checkbox"/> long, if >7 days 6. Site ponds water? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	

SOILS

Map Unit Name (Series and Phase): Tidal Flats (Tf) Taxonomy (Subgroup):		Drainage Class: Permeability: Runoff: Field Observations: Confirm Mapped Type? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No					
Profile Description:							
Depth (inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottle Abundance/ Contrast	Texture, Concretions, Structures, etc.		
0-18		10YR 4/3			Sandy loam (fill)		
Hydric Soil Indicators: <table style="width: 100%; border: none;"> <tr> <td style="width: 50%; vertical-align: top;"> <input type="checkbox"/> Histosol <input type="checkbox"/> Histic Epipedon <input type="checkbox"/> Sulfidic Odor <input type="checkbox"/> Aquic Moisture Regime <input type="checkbox"/> Reducing Conditions <input type="checkbox"/> Gleyed or Low-Chroma Colors </td> <td style="width: 50%; vertical-align: top;"> <input type="checkbox"/> Concretions <input type="checkbox"/> High Organic Content in Surface Layer in Sandy Soils <input type="checkbox"/> Organic Streaking in Sandy Soils <input type="checkbox"/> Listed on Local Hydric Soils List <input type="checkbox"/> Listed on National Hydric Soils List <input checked="" type="checkbox"/> Other (Explain in Remarks) </td> </tr> </table>						<input type="checkbox"/> Histosol <input type="checkbox"/> Histic Epipedon <input type="checkbox"/> Sulfidic Odor <input type="checkbox"/> Aquic Moisture Regime <input type="checkbox"/> Reducing Conditions <input type="checkbox"/> Gleyed or Low-Chroma Colors	<input type="checkbox"/> Concretions <input type="checkbox"/> High Organic Content in Surface Layer in Sandy Soils <input type="checkbox"/> Organic Streaking in Sandy Soils <input type="checkbox"/> Listed on Local Hydric Soils List <input type="checkbox"/> Listed on National Hydric Soils List <input checked="" type="checkbox"/> Other (Explain in Remarks)
<input type="checkbox"/> Histosol <input type="checkbox"/> Histic Epipedon <input type="checkbox"/> Sulfidic Odor <input type="checkbox"/> Aquic Moisture Regime <input type="checkbox"/> Reducing Conditions <input type="checkbox"/> Gleyed or Low-Chroma Colors	<input type="checkbox"/> Concretions <input type="checkbox"/> High Organic Content in Surface Layer in Sandy Soils <input type="checkbox"/> Organic Streaking in Sandy Soils <input type="checkbox"/> Listed on Local Hydric Soils List <input type="checkbox"/> Listed on National Hydric Soils List <input checked="" type="checkbox"/> Other (Explain in Remarks)						
Observations and Remarks: Fill material. 1. Smell: <input type="checkbox"/> Neutral; <input checked="" type="checkbox"/> Slightly fresh; or <input type="checkbox"/> Freshly plowed field smell 2. Site: <input type="checkbox"/> Irrigated; <input type="checkbox"/> Land leveled; <input type="checkbox"/> Ditch drained; <input type="checkbox"/> Pumped; <input type="checkbox"/> Graded to drain via slope 3. Soils: <input checked="" type="checkbox"/> do <input type="checkbox"/> do not become frequently ponded or saturated for long (>7 days) to very long durations (>30 days) during the growing season							

WETLAND DETERMINATION

Hydrophytic Vegetation Present? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Wetland Hydrology Present? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Hydric Soils Present? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Is this Sampling Point within a Wetland? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Remarks: 1. Possibly water of the U.S.? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No 2. Possibly exempt from Corps/EPA Regulation? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No (If yes, check item(s) below.) (a) <input type="checkbox"/> Non-tidal drainage and irrigation ditches excavated on dry land (b) <input type="checkbox"/> Artificially irrigated areas which would revert to upland if the irrigation ceased. (c) <input type="checkbox"/> Artificial lakes or ponds created by excavating and/or diking dry land to collect and retain water and which are used exclusively for such purposes as stock watering, irrigation, settling basins, or rice growing. (d) <input type="checkbox"/> Artificial reflecting or swimming pools or other small ornamental bodies of water created by excavating and/or diking dry land to retain water for primarily aesthetic reasons. (e) <input type="checkbox"/> Water-filled depressions created in dry land incidental to construction activity and pits excavated in dry land for the purpose of obtaining fill, sand, or gravel unless and until the construction or excavation operation is abandoned and the resulting body of water meets the definition of waters of the United States (see 33 CFR 328.3(a)).	

Approved by HQUSACE 3/92

Additional Comments/Remarks: **Revisited in December 2005 and removed from wetland status as the hydrophytic vegetation does not appear to be dominant. Site acts as a hydrologic connection to other ponds during high flood events, but does not appear to hold water normally. Adjacent area does appear to hold water for greater duration due to prevalence of hydrophytic species.**

DATA FORM
ROUTINE ON-SITE DETERMINATION METHOD

Project/Site: Chula Vista Bayfront Applicant/Owner: Port of San Diego Investigator(s): RECON Env. - Jennifer MacAller, Peter Tomsovic	Date: 3/8/05 County: San Diego State: CA
Do Normal Circumstances exist on the site? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Is the site significantly disturbed (Atypical Situation)? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Is the area a potential Problem Area? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No (if needed, explain on reverse or attach separate sheet.)	Community ID: Seasonal pond Transect ID: Plot ID: 7

VEGETATION

Dominant Plant Species	Stratum	Indicator	Dominant Plant Species	Stratum	Indicator
1. <i>Rumex crispus</i>	H	FACW-	9.		
2. <i>Lolium perenne</i>	H	FAC*	10.		
3. <i>Hordeum murinum</i>	H	UPL	11.		
4.			12.		
5.			13.		
6.			14.		
7.			15.		
8.			16.		

Percent of Dominant Species that are OBL, FACW, or FAC (excluding FAC-) 66%

Remarks:

1. Assume presence of wetland vegetation? Yes No
 2. Rooted emergent vegetation present? Yes No

HYDROLOGY

<input type="checkbox"/> Recorded Data (Describe in Remarks): <input type="checkbox"/> Stream, Lake or Tide Gauge <input type="checkbox"/> Aerial Photographs <input type="checkbox"/> Other <input checked="" type="checkbox"/> No Recorded Data Available	Wetland Hydrology Indicators: Primary Indicators: <input checked="" type="checkbox"/> Inundated <input checked="" type="checkbox"/> Saturated in: <input checked="" type="checkbox"/> Upper 12" <input checked="" type="checkbox"/> 13-18" <input type="checkbox"/> Water Marks <input type="checkbox"/> Drift Lines <input type="checkbox"/> Sediment Deposits <input type="checkbox"/> Drainage Patterns in Wetlands Secondary Indicators (2 or more required): <input type="checkbox"/> Oxidized Root Channels in: <input type="checkbox"/> Upper 12" <input type="checkbox"/> 13-18" <input type="checkbox"/> Water-Stained Leaves <input type="checkbox"/> Local Soil Survey Data <input type="checkbox"/> FAC-Neutral Test <input type="checkbox"/> Other (Explain in Remarks)
Field Observations: Depth of Surface Water: <u>3</u> (in.) Depth to Water in Pit: <u>0</u> (in.) Depth to Saturated Soil: <u>0</u> (in.)	
Observations and Remarks: 1. Filamentous or sheet forming algae present? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No 2. Slope: <input checked="" type="checkbox"/> 0-2%; or <input type="checkbox"/> >2% 3. Oxidized rhizospheres: <input type="checkbox"/> new roots only; <input type="checkbox"/> old roots only; <input type="checkbox"/> new and old roots, <input checked="" type="checkbox"/> none 4. Flooding: <input type="checkbox"/> none, flooding not probable; <input type="checkbox"/> rare, unlikely but possible under unusual weather conditions; <input type="checkbox"/> occasional, occurs on an average of once or less in 2 years; or <input checked="" type="checkbox"/> frequent, occurs on an average of more than once in 2 years. 5. Duration: <input type="checkbox"/> very brief, if <2 days; <input type="checkbox"/> brief, if 2-7 days, or <input checked="" type="checkbox"/> long, if >7 days 6. Site ponds water? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	

SOILS

Map Unit Name (Series and Phase): None Listed (Filled pad)		Drainage Class: Permeability: Runoff: Field Observations: Confirm Mapped Type? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No					
Taxonomy (Subgroup):							
Profile Description:							
Depth (inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottle Abundance/ Contrast	Texture, Concretions, Structures, etc.		
0-4		10YR3/2-1			sandy loam with organic		
4-18		10YR4/2			Sandy loam		
Hydric Soil Indicators:							
<table style="width:100%; border: none;"> <tr> <td style="width:50%; vertical-align: top;"> <input type="checkbox"/> Histosol <input type="checkbox"/> Histic Epipedon <input checked="" type="checkbox"/> Sulfidic Odor <input type="checkbox"/> Aquic Moisture Regime <input type="checkbox"/> Reducing Conditions <input type="checkbox"/> Gleyed or Low-Chroma Colors </td> <td style="width:50%; vertical-align: top;"> <input type="checkbox"/> Concretions <input type="checkbox"/> High Organic Content in Surface Layer in Sandy Soils <input type="checkbox"/> Organic Streaking in Sandy Soils <input type="checkbox"/> Listed on Local Hydric Soils List <input type="checkbox"/> Listed on National Hydric Soils List <input type="checkbox"/> Other (Explain in Remarks) </td> </tr> </table>						<input type="checkbox"/> Histosol <input type="checkbox"/> Histic Epipedon <input checked="" type="checkbox"/> Sulfidic Odor <input type="checkbox"/> Aquic Moisture Regime <input type="checkbox"/> Reducing Conditions <input type="checkbox"/> Gleyed or Low-Chroma Colors	<input type="checkbox"/> Concretions <input type="checkbox"/> High Organic Content in Surface Layer in Sandy Soils <input type="checkbox"/> Organic Streaking in Sandy Soils <input type="checkbox"/> Listed on Local Hydric Soils List <input type="checkbox"/> Listed on National Hydric Soils List <input type="checkbox"/> Other (Explain in Remarks)
<input type="checkbox"/> Histosol <input type="checkbox"/> Histic Epipedon <input checked="" type="checkbox"/> Sulfidic Odor <input type="checkbox"/> Aquic Moisture Regime <input type="checkbox"/> Reducing Conditions <input type="checkbox"/> Gleyed or Low-Chroma Colors	<input type="checkbox"/> Concretions <input type="checkbox"/> High Organic Content in Surface Layer in Sandy Soils <input type="checkbox"/> Organic Streaking in Sandy Soils <input type="checkbox"/> Listed on Local Hydric Soils List <input type="checkbox"/> Listed on National Hydric Soils List <input type="checkbox"/> Other (Explain in Remarks)						
Observations and Remarks: Organic matter @ surface. Sulfidic odor.							
1. Smell: <input type="checkbox"/> Neutral; <input type="checkbox"/> Slightly fresh; or <input type="checkbox"/> Freshly plowed field smell 2. Site: <input type="checkbox"/> Irrigated; <input type="checkbox"/> Land leveled; <input type="checkbox"/> Ditch drained; <input type="checkbox"/> Pumped; <input type="checkbox"/> Graded to drain via slope 3. Soils: <input checked="" type="checkbox"/> do <input type="checkbox"/> do not become frequently ponded or saturated for long (>7 days) to very long durations (>30 days) during the growing season							

WETLAND DETERMINATION

Hydrophytic Vegetation Present? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Wetland Hydrology Present? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Hydric Soils Present? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Is this Sampling Point within a Wetland? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Remarks:	
1. Possibly water of the U.S.? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No 2. Possibly exempt from Corps/EPA Regulation? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No (If yes, check item(s) below.) (a) <input type="checkbox"/> Non-tidal drainage and irrigation ditches excavated on dry land (b) <input type="checkbox"/> Artificially irrigated areas which would revert to upland if the irrigation ceased. (c) <input type="checkbox"/> Artificial lakes or ponds created by excavating and/or diking dry land to collect and retain water and which are used exclusively for such purposes as stock watering, irrigation, settling basins, or rice growing. (d) <input type="checkbox"/> Artificial reflecting or swimming pools or other small ornamental bodies of water created by excavating and/or diking dry land to retain water for primarily aesthetic reasons. (e) <input type="checkbox"/> Water-filled depressions created in dry land incidental to construction activity and pits excavated in dry land for the purpose of obtaining fill, sand, or gravel unless and until the construction or excavation operation is abandoned and the resulting body of water meets the definition of waters of the United States (see 33 CFR 328.3(a)).	

Approved by HQUSACE 3/92

Additional Comments/Remarks: Site is near utility pole. Low point in area collects water. Seems to sit here longer than other areas. May be exempt from Corps jurisdiction - appears to be isolated. CDFG jurisdictional.

DATA FORM
ROUTINE ON-SITE DETERMINATION METHOD

Project/Site: Chula Vista Bayfront Applicant/Owner: Port of San Diego Investigator(s): RECON Env. - Jennifer MacAller, Peter Tomsovic	Date: 3/8/05 County: San Diego State: CA
Do Normal Circumstances exist on the site? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Is the site significantly disturbed (Atypical Situation)? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Is the area a potential Problem Area? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No (if needed, explain on reverse or attach separate sheet.)	Community ID: NNG Upland Transect ID: Plot ID: 8

VEGETATION

Dominant Plant Species	Stratum	Indicator	Dominant Plant Species	Stratum	Indicator
1. <i>Avena sp.</i>	H	NL	9.		
2. <i>Melilotus indica</i>	H	NL	10.		
3. <i>Hordeum murinum</i>	H	UPL	11.		
4. <i>Bromus madritensis</i>	H	NL	12. <i>NL = not listed; in this case</i>		
5.			13. <i>sp are expected to be UPL</i>		
6.			14.		
7.			15.		
8.			16.		

Percent of Dominant Species that are OBL, FACW, or FAC (excluding FAC-) 0%

Remarks:

1. Assume presence of wetland vegetation? Yes No

2. Rooted emergent vegetation present? Yes No

HYDROLOGY

<input type="checkbox"/> Recorded Data (Describe in Remarks): <input type="checkbox"/> Stream, Lake or Tide Gauge <input type="checkbox"/> Aerial Photographs <input type="checkbox"/> Other <input checked="" type="checkbox"/> No Recorded Data Available	Wetland Hydrology Indicators: Primary Indicators: <input type="checkbox"/> Inundated <input type="checkbox"/> Saturated in: <input type="checkbox"/> Upper 12" <input type="checkbox"/> 13-18" <input type="checkbox"/> Water Marks <input type="checkbox"/> Drift Lines <input type="checkbox"/> Sediment Deposits <input type="checkbox"/> Drainage Patterns in Wetlands Secondary Indicators (2 or more required): <input type="checkbox"/> Oxidized Root Channels in: <input type="checkbox"/> Upper 12" <input type="checkbox"/> 13-18" <input type="checkbox"/> Water-Stained Leaves <input type="checkbox"/> Local Soil Survey Data <input type="checkbox"/> FAC-Neutral Test <input type="checkbox"/> Other (Explain in Remarks)
Field Observations: Depth of Surface Water: <u>N/A</u> (in.) Depth to Water in Pit: <u>≥18</u> (in.) Depth to Saturated Soil: <u>≥18</u> (in.)	
Observations and Remarks: No wetland hydrology indicators observed. 1. Filamentous or sheet forming algae present? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No 2. Slope: <input checked="" type="checkbox"/> 0-2%; or <input type="checkbox"/> >2% 3. Oxidized rhizospheres: <input type="checkbox"/> new roots only; <input type="checkbox"/> old roots only; <input type="checkbox"/> new and old roots, <input checked="" type="checkbox"/> none 4. Flooding: <input type="checkbox"/> none, flooding not probable; <input checked="" type="checkbox"/> rare, unlikely but possible under unusual weather conditions; <input type="checkbox"/> occasional, occurs on an average of once or less in 2 years; or <input checked="" type="checkbox"/> frequent, occurs on an average of more than once in 2 years. 5. Duration: <input checked="" type="checkbox"/> very brief, if <2 days; <input type="checkbox"/> brief, if 2-7 days, or <input type="checkbox"/> long, if >7 days 6. Site ponds water? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	

SOILS

Map Unit Name (Series and Phase): None Listed (Filled pad)		Drainage Class: Permeability: Runoff: Field Observations: Confirm Mapped Type? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No					
Taxonomy (Subgroup):							
Profile Description:							
Depth (inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottle Abundance/ Contrast	Texture, Concretions, Structures, etc.		
0-18		10YR4/3			gravelly sandy loam (fill soil)		
Hydric Soil Indicators: <table style="width:100%; border: none;"> <tr> <td style="width:50%; vertical-align: top;"> <input type="checkbox"/> Histosol <input type="checkbox"/> Histic Epipedon <input type="checkbox"/> Sulfidic Odor <input type="checkbox"/> Aquic Moisture Regime <input type="checkbox"/> Reducing Conditions <input type="checkbox"/> Gleyed or Low-Chroma Colors </td> <td style="width:50%; vertical-align: top;"> <input type="checkbox"/> Concretions <input type="checkbox"/> High Organic Content in Surface Layer in Sandy Soils <input type="checkbox"/> Organic Streaking in Sandy Soils <input type="checkbox"/> Listed on Local Hydric Soils List <input type="checkbox"/> Listed on National Hydric Soils List <input type="checkbox"/> Other (Explain in Remarks) </td> </tr> </table>						<input type="checkbox"/> Histosol <input type="checkbox"/> Histic Epipedon <input type="checkbox"/> Sulfidic Odor <input type="checkbox"/> Aquic Moisture Regime <input type="checkbox"/> Reducing Conditions <input type="checkbox"/> Gleyed or Low-Chroma Colors	<input type="checkbox"/> Concretions <input type="checkbox"/> High Organic Content in Surface Layer in Sandy Soils <input type="checkbox"/> Organic Streaking in Sandy Soils <input type="checkbox"/> Listed on Local Hydric Soils List <input type="checkbox"/> Listed on National Hydric Soils List <input type="checkbox"/> Other (Explain in Remarks)
<input type="checkbox"/> Histosol <input type="checkbox"/> Histic Epipedon <input type="checkbox"/> Sulfidic Odor <input type="checkbox"/> Aquic Moisture Regime <input type="checkbox"/> Reducing Conditions <input type="checkbox"/> Gleyed or Low-Chroma Colors	<input type="checkbox"/> Concretions <input type="checkbox"/> High Organic Content in Surface Layer in Sandy Soils <input type="checkbox"/> Organic Streaking in Sandy Soils <input type="checkbox"/> Listed on Local Hydric Soils List <input type="checkbox"/> Listed on National Hydric Soils List <input type="checkbox"/> Other (Explain in Remarks)						
Observations and Remarks: 1. Smell: <input type="checkbox"/> Neutral; <input type="checkbox"/> Slightly fresh; or <input type="checkbox"/> Freshly plowed field smell 2. Site: <input type="checkbox"/> Irrigated; <input type="checkbox"/> Land leveled; <input type="checkbox"/> Ditch drained; <input type="checkbox"/> Pumped; <input type="checkbox"/> Graded to drain via slope 3. Soils: <input type="checkbox"/> do <input checked="" type="checkbox"/> do not become frequently ponded or saturated for long (>7 days) to very long durations (>30 days) during the growing season							

WETLAND DETERMINATION

Hydrophytic Vegetation Present? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Wetland Hydrology Present? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Hydric Soils Present? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Is this Sampling Point within a Wetland? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Remarks: 1. Possibly water of the U.S.? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No 2. Possibly exempt from Corps/EPA Regulation? <input type="checkbox"/> Yes <input type="checkbox"/> No (If yes, check item(s) below.) (a) <input type="checkbox"/> Non-tidal drainage and irrigation ditches excavated on dry land (b) <input type="checkbox"/> Artificially irrigated areas which would revert to upland if the irrigation ceased. (c) <input type="checkbox"/> Artificial lakes or ponds created by excavating and/or diking dry land to collect and retain water and which are used exclusively for such purposes as stock watering, irrigation, settling basins, or rice growing. (d) <input type="checkbox"/> Artificial reflecting or swimming pools or other small ornamental bodies of water created by excavating and/or diking dry land to retain water for primarily aesthetic reasons. (e) <input type="checkbox"/> Water-filled depressions created in dry land incidental to construction activity and pits excavated in dry land for the purpose of obtaining fill, sand, or gravel unless and until the construction or excavation operation is abandoned and the resulting body of water meets the definition of waters of the United States (see 33 CFR 328.3(a)).	

Approved by HQUSACE 3/92

Additional Comments/Remarks: **Sample point does not meet any of the three wetland parameters. Revisited in December 2005. Hydrophytic vegetation not apparent.**

DATA FORM
ROUTINE ON-SITE DETERMINATION METHOD

Project/Site: Chula Vista Bayfront Applicant/Owner: Port of San Diego Investigator(s): RECON Env. - Jennifer MacAller, Peter Tomsovic	Date: 3/8/05 County: San Diego State: CA
Do Normal Circumstances exist on the site? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Is the site significantly disturbed (Atypical Situation)? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Is the area a potential Problem Area? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No (if needed, explain on reverse or attach separate sheet.)	Community ID: Seasonal pond Transect ID: Plot ID: 9

VEGETATION

Dominant Plant Species	Stratum	Indicator	Dominant Plant Species	Stratum	Indicator
1. <i>Lythrum hyssopifolium</i>	H	FACW	9.		
2. <i>Spergularia sp.</i>	H	FACW*	10.		
3.			11.		
4.			12.		
5.			13.		
6.			14.		
7.			15.		
8.			16.		

Percent of Dominant Species that are OBL, FACW, or FAC (excluding FAC-) 100%

Remarks:

1. Assume presence of wetland vegetation? Yes No
 2. Rooted emergent vegetation present? Yes No

HYDROLOGY

<input checked="" type="checkbox"/> Recorded Data (Describe in Remarks): <input type="checkbox"/> Stream, Lake or Tide Gauge <input checked="" type="checkbox"/> Aerial Photographs <input type="checkbox"/> Other <input type="checkbox"/> No Recorded Data Available	Wetland Hydrology Indicators: Primary Indicators: <input type="checkbox"/> Inundated <input checked="" type="checkbox"/> Saturated in: <input checked="" type="checkbox"/> Upper 12" <input checked="" type="checkbox"/> 13-18" <input type="checkbox"/> Water Marks <input type="checkbox"/> Drift Lines <input type="checkbox"/> Sediment Deposits <input type="checkbox"/> Drainage Patterns in Wetlands Secondary Indicators (2 or more required): <input checked="" type="checkbox"/> Oxidized Root Channels in: <input checked="" type="checkbox"/> Upper 12" <input checked="" type="checkbox"/> 13-18" <input type="checkbox"/> Water-Stained Leaves <input type="checkbox"/> Local Soil Survey Data <input checked="" type="checkbox"/> FAC-Neutral Test <input type="checkbox"/> Other (Explain in Remarks)
Field Observations: Depth of Surface Water: 0 (in.) Depth to Water in Pit: 1 (in.) Depth to Saturated Soil: 0 (in.)	
<p>Observations and Remarks: Ponding water 3 inches deep near sample point. Previous years' aerial photo shows ponding.</p> <p>1. Filamentous or sheet forming algae present? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No</p> <p>2. Slope: <input checked="" type="checkbox"/> 0-2%; or <input type="checkbox"/> >2%</p> <p>3. Oxidized rhizospheres: <input type="checkbox"/> new roots only; <input type="checkbox"/> old roots only; <input checked="" type="checkbox"/> new and old roots, <input type="checkbox"/> none</p> <p>4. Flooding: <input type="checkbox"/> none, flooding not probable; <input checked="" type="checkbox"/> rare, unlikely but possible under unusual weather conditions; <input type="checkbox"/> occasional, occurs on an average of once or less in 2 years; or <input checked="" type="checkbox"/> frequent, occurs on an average of more than once in 2 years.</p> <p>5. Duration: <input type="checkbox"/> very brief, if <2 days; <input type="checkbox"/> brief, if 2-7 days, or <input checked="" type="checkbox"/> long, if >7 days</p> <p>6. Site ponds water? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No</p>	

SOILS

Map Unit Name (Series and Phase): Salinas clay loam - 0 to 2 percent slopes Taxonomy (Subgroup): Calcic Pachic Haploxerolls		Drainage Class: Good Permeability: Moderately slow Runoff: Very slow Field Observations: Confirm Mapped Type? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No															
Profile Description:																	
Depth (inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottle Abundance/ Contrast	Texture, Concretions, Structures, etc.												
0-18		10YR3/2			sandy clay loam												
Hydric Soil Indicators: <table style="width:100%; border:none;"> <tr> <td><input type="checkbox"/> Histosol</td> <td><input type="checkbox"/> Concretions</td> </tr> <tr> <td><input type="checkbox"/> Histic Epipedon</td> <td><input type="checkbox"/> High Organic Content in Surface Layer in Sandy Soils</td> </tr> <tr> <td><input type="checkbox"/> Sulfidic Odor</td> <td><input type="checkbox"/> Organic Streaking in Sandy Soils</td> </tr> <tr> <td><input type="checkbox"/> Aquic Moisture Regime</td> <td><input type="checkbox"/> Listed on Local Hydric Soils List</td> </tr> <tr> <td><input type="checkbox"/> Reducing Conditions</td> <td><input type="checkbox"/> Listed on National Hydric Soils List</td> </tr> <tr> <td><input type="checkbox"/> Gleyed or Low-Chroma Colors</td> <td><input checked="" type="checkbox"/> Other (Explain in Remarks)</td> </tr> </table>						<input type="checkbox"/> Histosol	<input type="checkbox"/> Concretions	<input type="checkbox"/> Histic Epipedon	<input type="checkbox"/> High Organic Content in Surface Layer in Sandy Soils	<input type="checkbox"/> Sulfidic Odor	<input type="checkbox"/> Organic Streaking in Sandy Soils	<input type="checkbox"/> Aquic Moisture Regime	<input type="checkbox"/> Listed on Local Hydric Soils List	<input type="checkbox"/> Reducing Conditions	<input type="checkbox"/> Listed on National Hydric Soils List	<input type="checkbox"/> Gleyed or Low-Chroma Colors	<input checked="" type="checkbox"/> Other (Explain in Remarks)
<input type="checkbox"/> Histosol	<input type="checkbox"/> Concretions																
<input type="checkbox"/> Histic Epipedon	<input type="checkbox"/> High Organic Content in Surface Layer in Sandy Soils																
<input type="checkbox"/> Sulfidic Odor	<input type="checkbox"/> Organic Streaking in Sandy Soils																
<input type="checkbox"/> Aquic Moisture Regime	<input type="checkbox"/> Listed on Local Hydric Soils List																
<input type="checkbox"/> Reducing Conditions	<input type="checkbox"/> Listed on National Hydric Soils List																
<input type="checkbox"/> Gleyed or Low-Chroma Colors	<input checked="" type="checkbox"/> Other (Explain in Remarks)																
Observations and Remarks: Fill material. Due to the nature of the soil, hydric soil indicators have probably not had time to develop. Hydric conditions exist. 1. Smell: <input type="checkbox"/> Neutral; <input checked="" type="checkbox"/> Slightly fresh; or <input type="checkbox"/> Freshly plowed field smell 2. Site: <input type="checkbox"/> Irrigated; <input type="checkbox"/> Land leveled; <input type="checkbox"/> Ditch drained; <input type="checkbox"/> Pumped; <input type="checkbox"/> Graded to drain via slope 3. Soils: <input checked="" type="checkbox"/> do <input type="checkbox"/> do not become frequently ponded or saturated for long (>7 days) to very long durations (>30 days) during the growing season																	

WETLAND DETERMINATION

Hydrophytic Vegetation Present? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Wetland Hydrology Present? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Hydric Soils Present? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Is this Sampling Point within a Wetland? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Remarks: 1. Possibly water of the U.S.? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No 2. Possibly exempt from Corps/EPA Regulation? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No (If yes, check item(s) below.) (a) <input type="checkbox"/> Non-tidal drainage and irrigation ditches excavated on dry land (b) <input type="checkbox"/> Artificially irrigated areas which would revert to upland if the irrigation ceased. (c) <input type="checkbox"/> Artificial lakes or ponds created by excavating and/or diking dry land to collect and retain water and which are used exclusively for such purposes as stock watering, irrigation, settling basins, or rice growing. (d) <input type="checkbox"/> Artificial reflecting or swimming pools or other small ornamental bodies of water created by excavating and/or diking dry land to retain water for primarily aesthetic reasons. (e) <input type="checkbox"/> Water-filled depressions created in dry land incidental to construction activity and pits excavated in dry land for the purpose of obtaining fill, sand, or gravel unless and until the construction or excavation operation is abandoned and the resulting body of water meets the definition of waters of the United States (see 33 CFR 328.3(a)).	

Approved by HQUSACE 3/92

Additional Comments/Remarks: **May be isolated from adjacent waters and therefore exempt from Corps jurisdiction. CDFG jurisdictional. Revisited in December 2005: hydrophytic vegetation present, area disturbed by vehicle. Roadside depression.**

DATA FORM
ROUTINE ON-SITE DETERMINATION METHOD

Project/Site: Chula Vista Bayfront Applicant/Owner: Port of San Diego Investigator(s): RECON Env. - Jennifer MacAller, Peter Tomsovic	Date: 3/8/05 County: San Diego State: CA
Do Normal Circumstances exist on the site? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Is the site significantly disturbed (Atypical Situation)? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Is the area a potential Problem Area? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No (if needed, explain on reverse or attach separate sheet.)	Community ID: Seasonal pond Transect ID: Plot ID: 10

VEGETATION

Dominant Plant Species	Stratum	Indicator	Dominant Plant Species	Stratum	Indicator
1. <i>Lythrum hyssopifolium</i>	H	FACW	9.		
2. <i>Spergularia sp.</i>	H	FACW	10. <i>sub-dominant</i>		
3.			11. <i>Sonchus oleraceus</i>	H	NL
4.			12. <i>Lepidium sp.</i>	H	NL
5.			13.		
6.			14.		
7.			15.		
8.			16.		

Percent of Dominant Species that are OBL, FACW, or FAC (excluding FAC-) 100%

Remarks: **Sample plot surrounded by *Lepidium*, *melilotus*, *erodium***

1. Assume presence of wetland vegetation? Yes No
 2. Rooted emergent vegetation present? Yes No

HYDROLOGY

<input checked="" type="checkbox"/> Recorded Data (Describe in Remarks): <input type="checkbox"/> Stream, Lake or Tide Gauge <input checked="" type="checkbox"/> Aerial Photographs <input type="checkbox"/> Other <input type="checkbox"/> No Recorded Data Available	Wetland Hydrology Indicators: Primary Indicators: <input type="checkbox"/> Inundated <input type="checkbox"/> Saturated in: <input type="checkbox"/> Upper 12" <input type="checkbox"/> 13-18" <input type="checkbox"/> Water Marks <input type="checkbox"/> Drift Lines <input type="checkbox"/> Sediment Deposits <input type="checkbox"/> Drainage Patterns in Wetlands Secondary Indicators (2 or more required): <input type="checkbox"/> Oxidized Root Channels in: <input type="checkbox"/> Upper 12" <input type="checkbox"/> 13-18" <input type="checkbox"/> Water-Stained Leaves <input type="checkbox"/> Local Soil Survey Data <input checked="" type="checkbox"/> FAC-Neutral Test <input checked="" type="checkbox"/> Other (Explain in Remarks)
Field Observations: Depth of Surface Water: <u>N/A</u> (in.) Depth to Water in Pit: <u>≥18</u> (in.) Depth to Saturated Soil: <u>≥18</u> (in.)	
<p><i>Observations and Remarks: Soil moist but not saturated. Low point in swale that ponds. Previous years' aerials show ponding. No standing water at this time. Site revisited in December 2005 and soil samples were very moist during dry season.</i></p> 1. Filamentous or sheet forming algae present? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No 2. Slope: <input checked="" type="checkbox"/> 0-2%; or <input type="checkbox"/> >2% 3. Oxidized rhizospheres: <input type="checkbox"/> new roots only; <input type="checkbox"/> old roots only; <input type="checkbox"/> new and old roots, <input checked="" type="checkbox"/> none 4. Flooding: <input type="checkbox"/> none, flooding not probable; <input type="checkbox"/> rare, unlikely but possible under unusual weather conditions; <input checked="" type="checkbox"/> occasional, occurs on an average of once or less in 2 years; or <input type="checkbox"/> frequent, occurs on an average of more than once in 2 years. 5. Duration: <input type="checkbox"/> very brief, if <2 days; <input type="checkbox"/> brief, if 2-7 days, or <input checked="" type="checkbox"/> long, if >7 days 6. Site ponds water? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	

SOILS

Map Unit Name (Series and Phase): Salinas clay loam - 0 to 2 percent slopes Taxonomy (Subgroup): Calcic Pachic Haploxerolls		Drainage Class: Good Permeability: Moderately slow Runoff: Very slow Field Observations: Confirm Mapped Type? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No															
Profile Description:																	
Depth (inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottle Abundance/ Contrast	Texture, Concretions, Structures, etc.												
0-6		10YR3/2			sandy loam												
6-18		7.5YR4/3	reddish layering		Clay loam - impermeable layer												
Hydric Soil Indicators: <table style="width:100%; border:none;"> <tr> <td><input type="checkbox"/> Histosol</td> <td><input type="checkbox"/> Concretions</td> </tr> <tr> <td><input type="checkbox"/> Histic Epipedon</td> <td><input type="checkbox"/> High Organic Content in Surface Layer in Sandy Soils</td> </tr> <tr> <td><input type="checkbox"/> Sulfidic Odor</td> <td><input type="checkbox"/> Organic Streaking in Sandy Soils</td> </tr> <tr> <td><input type="checkbox"/> Aquic Moisture Regime</td> <td><input type="checkbox"/> Listed on Local Hydric Soils List</td> </tr> <tr> <td><input type="checkbox"/> Reducing Conditions</td> <td><input type="checkbox"/> Listed on National Hydric Soils List</td> </tr> <tr> <td><input type="checkbox"/> Gleyed or Low-Chroma Colors</td> <td><input type="checkbox"/> Other (Explain in Remarks)</td> </tr> </table>						<input type="checkbox"/> Histosol	<input type="checkbox"/> Concretions	<input type="checkbox"/> Histic Epipedon	<input type="checkbox"/> High Organic Content in Surface Layer in Sandy Soils	<input type="checkbox"/> Sulfidic Odor	<input type="checkbox"/> Organic Streaking in Sandy Soils	<input type="checkbox"/> Aquic Moisture Regime	<input type="checkbox"/> Listed on Local Hydric Soils List	<input type="checkbox"/> Reducing Conditions	<input type="checkbox"/> Listed on National Hydric Soils List	<input type="checkbox"/> Gleyed or Low-Chroma Colors	<input type="checkbox"/> Other (Explain in Remarks)
<input type="checkbox"/> Histosol	<input type="checkbox"/> Concretions																
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<input type="checkbox"/> Sulfidic Odor	<input type="checkbox"/> Organic Streaking in Sandy Soils																
<input type="checkbox"/> Aquic Moisture Regime	<input type="checkbox"/> Listed on Local Hydric Soils List																
<input type="checkbox"/> Reducing Conditions	<input type="checkbox"/> Listed on National Hydric Soils List																
<input type="checkbox"/> Gleyed or Low-Chroma Colors	<input type="checkbox"/> Other (Explain in Remarks)																
Observations and Remarks: Lower layers have reddish layering (clay). 1. Smell: <input type="checkbox"/> Neutral; <input checked="" type="checkbox"/> Slightly fresh; or <input type="checkbox"/> Freshly plowed field smell 2. Site: <input type="checkbox"/> Irrigated; <input type="checkbox"/> Land leveled; <input type="checkbox"/> Ditch drained; <input type="checkbox"/> Pumped; <input type="checkbox"/> Graded to drain via slope 3. Soils: <input checked="" type="checkbox"/> do <input type="checkbox"/> do not become frequently ponded or saturated for long (>7 days) to very long durations (>30 days) during the growing season																	

WETLAND DETERMINATION

Hydrophytic Vegetation Present? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Wetland Hydrology Present? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Hydric Soils Present? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Is this Sampling Point within a Wetland? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Remarks: 1. Possibly water of the U.S.? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No 2. Possibly exempt from Corps/EPA Regulation? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No (If yes, check item(s) below.) (a) <input type="checkbox"/> Non-tidal drainage and irrigation ditches excavated on dry land (b) <input type="checkbox"/> Artificially irrigated areas which would revert to upland if the irrigation ceased. (c) <input type="checkbox"/> Artificial lakes or ponds created by excavating and/or diking dry land to collect and retain water and which are used exclusively for such purposes as stock watering, irrigation, settling basins, or rice growing. (d) <input type="checkbox"/> Artificial reflecting or swimming pools or other small ornamental bodies of water created by excavating and/or diking dry land to retain water for primarily aesthetic reasons. (e) <input type="checkbox"/> Water-filled depressions created in dry land incidental to construction activity and pits excavated in dry land for the purpose of obtaining fill, sand, or gravel unless and until the construction or excavation operation is abandoned and the resulting body of water meets the definition of waters of the United States (see 33 CFR 328.3(a)).	

Approved by HQUSACE 3/92

Additional Comments/Remarks: **Seasonal pond in low part of swale. Appears darker on old aerials, indicating previous ponding. May be exempt from Corps jurisdiction due to isolation from other waters. CDFG jurisdiction applies.**

DATA FORM
ROUTINE ON-SITE DETERMINATION METHOD

Project/Site: Chula Vista Bayfront Applicant/Owner: Port of San Diego Investigator(s): RECON Env. - Jennifer MacAller, Peter Tomsovic	Date: 3/8/05 County: San Diego State: CA
Do Normal Circumstances exist on the site? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Is the site significantly disturbed (Atypical Situation)? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Is the area a potential Problem Area? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No (if needed, explain on reverse or attach separate sheet.)	Community ID: Seasonal pond Transect ID: Plot ID: 11

VEGETATION

Dominant Plant Species	Stratum	Indicator	Dominant Plant Species	Stratum	Indicator
1. <i>Cotula coronopifolia</i>	H	FACW+	9.		
2. <i>Spergularia sp.</i>	H	FACW	10. <i>sub-dominant</i>		
3. <i>Rumex crispus</i>	S	FACW-	11. <i>Isocoma menziesii</i>	S	FAC+
4.			12. <i>Distichlis spicata</i>	H	FACW
5.			13.		
6.			14.		
7.			15.		
8.			16.		

Percent of Dominant Species that are OBL, FACW, or FAC (excluding FAC-) 100%

Remarks: **Some bare soil. Patches of herbaceous vegetation throughout.**

1. Assume presence of wetland vegetation? Yes No
 2. Rooted emergent vegetation present? Yes No

HYDROLOGY

<input checked="" type="checkbox"/> Recorded Data (Describe in Remarks): <input type="checkbox"/> Stream, Lake or Tide Gauge <input checked="" type="checkbox"/> Aerial Photographs <input type="checkbox"/> Other <input type="checkbox"/> No Recorded Data Available	Wetland Hydrology Indicators: Primary Indicators: <input type="checkbox"/> Inundated <input type="checkbox"/> Saturated in: <input type="checkbox"/> Upper 12" <input type="checkbox"/> 13-18" <input type="checkbox"/> Water Marks <input type="checkbox"/> Drift Lines <input type="checkbox"/> Sediment Deposits <input type="checkbox"/> Drainage Patterns in Wetlands Secondary Indicators (2 or more required): <input type="checkbox"/> Oxidized Root Channels in: <input type="checkbox"/> Upper 12" <input type="checkbox"/> 13-18" <input type="checkbox"/> Water-Stained Leaves <input type="checkbox"/> Local Soil Survey Data <input checked="" type="checkbox"/> FAC-Neutral Test <input checked="" type="checkbox"/> Other (Explain in Remarks)
Field Observations: Depth of Surface Water: <u>N/A</u> (in.) Depth to Water in Pit: <u>≥18</u> (in.) Depth to Saturated Soil: <u>≥18</u> (in.)	
<p>Observations and Remarks: Seasonal ponding in large detention basin. Aerials show ponding.</p> <p>1. Filamentous or sheet forming algae present? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No 2. Slope: <input checked="" type="checkbox"/> 0-2%; or <input type="checkbox"/> >2% 3. Oxidized rhizospheres: <input type="checkbox"/> new roots only; <input type="checkbox"/> old roots only; <input type="checkbox"/> new and old roots, <input checked="" type="checkbox"/> none 4. Flooding: <input type="checkbox"/> none, flooding not probable; <input type="checkbox"/> rare, unlikely but possible under unusual weather conditions; <input type="checkbox"/> occasional, occurs on an average of once or less in 2 years; or <input checked="" type="checkbox"/> frequent, occurs on an average of more than once in 2 years. 5. Duration: <input type="checkbox"/> very brief, if <2 days; <input type="checkbox"/> brief, if 2-7 days, or <input checked="" type="checkbox"/> long, if >7 days 6. Site ponds water? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No</p>	

SOILS

Map Unit Name (Series and Phase): Huerhuero-Urban Land Complex- 2 to 9 percent slopes Taxonomy (Subgroup): Haplic Natrixeralfs		Drainage Class: Moderately well drained Permeability: Very slow Runoff: Slow to Medium Field Observations: Confirm Mapped Type? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No															
Profile Description:																	
Depth (inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottle Abundance/ Contrast	Texture, Concretions, Structures, etc.												
0-18		10YR3/2	10YR4/6	Few/distinct	clay loam												
Hydric Soil Indicators: <table style="width: 100%; border: none;"> <tr> <td><input type="checkbox"/> Histosol</td> <td><input checked="" type="checkbox"/> Concretions</td> </tr> <tr> <td><input type="checkbox"/> Histic Epipedon</td> <td><input type="checkbox"/> High Organic Content in Surface Layer in Sandy Soils</td> </tr> <tr> <td><input type="checkbox"/> Sulfidic Odor</td> <td><input type="checkbox"/> Organic Streaking in Sandy Soils</td> </tr> <tr> <td><input type="checkbox"/> Aquic Moisture Regime</td> <td><input type="checkbox"/> Listed on Local Hydric Soils List</td> </tr> <tr> <td><input type="checkbox"/> Reducing Conditions</td> <td><input type="checkbox"/> Listed on National Hydric Soils List</td> </tr> <tr> <td><input type="checkbox"/> Gleyed or Low-Chroma Colors</td> <td><input type="checkbox"/> Other (Explain in Remarks)</td> </tr> </table>						<input type="checkbox"/> Histosol	<input checked="" type="checkbox"/> Concretions	<input type="checkbox"/> Histic Epipedon	<input type="checkbox"/> High Organic Content in Surface Layer in Sandy Soils	<input type="checkbox"/> Sulfidic Odor	<input type="checkbox"/> Organic Streaking in Sandy Soils	<input type="checkbox"/> Aquic Moisture Regime	<input type="checkbox"/> Listed on Local Hydric Soils List	<input type="checkbox"/> Reducing Conditions	<input type="checkbox"/> Listed on National Hydric Soils List	<input type="checkbox"/> Gleyed or Low-Chroma Colors	<input type="checkbox"/> Other (Explain in Remarks)
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<input type="checkbox"/> Gleyed or Low-Chroma Colors	<input type="checkbox"/> Other (Explain in Remarks)																
Observations and Remarks: 1. Smell: <input type="checkbox"/> Neutral; <input checked="" type="checkbox"/> Slightly fresh; or <input type="checkbox"/> Freshly plowed field smell 2. Site: <input type="checkbox"/> Irrigated; <input type="checkbox"/> Land leveled; <input type="checkbox"/> Ditch drained; <input type="checkbox"/> Pumped; <input type="checkbox"/> Graded to drain via slope 3. Soils: <input checked="" type="checkbox"/> do <input type="checkbox"/> do not become frequently ponded or saturated for long (>7 days) to very long durations (>30 days) during the growing season																	

WETLAND DETERMINATION

Hydrophytic Vegetation Present? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Wetland Hydrology Present? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Hydric Soils Present? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Is this Sampling Point within a Wetland? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Remarks: 1. Possibly water of the U.S.? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No 2. Possibly exempt from Corps/EPA Regulation? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No (If yes, check item(s) below.) (a) <input type="checkbox"/> Non-tidal drainage and irrigation ditches excavated on dry land (b) <input type="checkbox"/> Artificially irrigated areas which would revert to upland if the irrigation ceased. (c) <input checked="" type="checkbox"/> Artificial lakes or ponds created by excavating and/or diking dry land to collect and retain water and which are used exclusively for such purposes as stock watering, irrigation, settling basins, or rice growing. (d) <input type="checkbox"/> Artificial reflecting or swimming pools or other small ornamental bodies of water created by excavating and/or diking dry land to retain water for primarily aesthetic reasons. (e) <input type="checkbox"/> Water-filled depressions created in dry land incidental to construction activity and pits excavated in dry land for the purpose of obtaining fill, sand, or gravel unless and until the construction or excavation operation is abandoned and the resulting body of water meets the definition of waters of the United States (see 33 CFR 328.3(a)).	

Approved by HQUSACE 3/92

Additional Comments/Remarks: **Sample point meets all three wetland criteria. Several other pits dug within basin and all revealed same matrix color with and without mottles. Subsurface clay hardpan exists. Aerials show detention basin holding shallow water. Likely exempt from Corps jurisdiction as this is a detention basin constructed on fill soil for storm water control. Isolated from adjacent waters -- pipes must be opened physically. CDFG jurisdictional.**

DATA FORM
ROUTINE ON-SITE DETERMINATION METHOD

Project/Site: Chula Vista Bayfront Applicant/Owner: Port of San Diego Investigator(s): RECON Env. - Jennifer MacAller, Peter Tomsovic	Date: 3/8/05 County: San Diego State: CA
Do Normal Circumstances exist on the site? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Is the site significantly disturbed (Atypical Situation)? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Is the area a potential Problem Area? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No (if needed, explain on reverse or attach separate sheet.)	Community ID: Brackish marsh Transect ID: Plot ID: 12

VEGETATION

Dominant Plant Species	Stratum	Indicator	Dominant Plant Species	Stratum	Indicator
1. <i>Cyperus eragrostis</i>	H	FACW	9.		
2.			10.		
3.			11.		
4.			12.		
5.			13.		
6.			14.		
7.			15.		
8.			16.		

Percent of Dominant Species that are OBL, FACW, or FAC (excluding FAC-) 100%

Remarks:

1. Assume presence of wetland vegetation? Yes No
 2. Rooted emergent vegetation present? Yes No

HYDROLOGY

<input type="checkbox"/> Recorded Data (Describe in Remarks): <input type="checkbox"/> Stream, Lake or Tide Gauge <input type="checkbox"/> Aerial Photographs <input type="checkbox"/> Other <input checked="" type="checkbox"/> No Recorded Data Available	Wetland Hydrology Indicators: Primary Indicators: <input checked="" type="checkbox"/> Inundated <input checked="" type="checkbox"/> Saturated in: <input checked="" type="checkbox"/> Upper 12" <input checked="" type="checkbox"/> 13-18" <input type="checkbox"/> Water Marks <input type="checkbox"/> Drift Lines <input type="checkbox"/> Sediment Deposits <input type="checkbox"/> Drainage Patterns in Wetlands Secondary Indicators (2 or more required): <input type="checkbox"/> Oxidized Root Channels in: <input type="checkbox"/> Upper 12" <input type="checkbox"/> 13-18" <input type="checkbox"/> Water-Stained Leaves <input type="checkbox"/> Local Soil Survey Data <input checked="" type="checkbox"/> FAC-Neutral Test <input type="checkbox"/> Other (Explain in Remarks)
Field Observations: Depth of Surface Water: <u>2</u> (in.) Depth to Water in Pit: <u>0</u> (in.) Depth to Saturated Soil: <u>0</u> (in.)	
Observations and Remarks: 1. Filamentous or sheet forming algae present? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No 2. Slope: <input checked="" type="checkbox"/> 0-2%; or <input type="checkbox"/> >2% 3. Oxidized rhizospheres: <input type="checkbox"/> new roots only; <input type="checkbox"/> old roots only; <input type="checkbox"/> new and old roots, <input checked="" type="checkbox"/> none 4. Flooding: <input type="checkbox"/> none, flooding not probable; <input type="checkbox"/> rare, unlikely but possible under unusual weather conditions; <input type="checkbox"/> occasional, occurs on an average of once or less in 2 years; or <input checked="" type="checkbox"/> frequent, occurs on an average of more than once in 2 years. 5. Duration: <input type="checkbox"/> very brief, if <2 days; <input type="checkbox"/> brief, if 2-7 days, or <input checked="" type="checkbox"/> long, if >7 days 6. Site ponds water? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	

SOILS

Map Unit Name (Series and Phase): Tidal Flats Taxonomy (Subgroup): (Filled)		Drainage Class: Permeability: Runoff: Field Observations: Confirm Mapped Type? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No															
Profile Description:																	
Depth (inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottle Abundance/ Contrast	Texture, Concretions, Structures, etc.												
0-3					Organic layer												
3-18		10YR4/2	10YR4/6 10YR3/1	Common/ Distinct	Sandy loam												
Hydric Soil Indicators: <table style="width:100%; border:none;"> <tr> <td><input type="checkbox"/> Histosol</td> <td><input type="checkbox"/> Concretions</td> </tr> <tr> <td><input type="checkbox"/> Histic Epipedon</td> <td><input type="checkbox"/> High Organic Content in Surface Layer in Sandy Soils</td> </tr> <tr> <td><input checked="" type="checkbox"/> Sulfidic Odor</td> <td><input type="checkbox"/> Organic Streaking in Sandy Soils</td> </tr> <tr> <td><input type="checkbox"/> Aquic Moisture Regime</td> <td><input type="checkbox"/> Listed on Local Hydric Soils List</td> </tr> <tr> <td><input checked="" type="checkbox"/> Reducing Conditions</td> <td><input type="checkbox"/> Listed on National Hydric Soils List</td> </tr> <tr> <td><input checked="" type="checkbox"/> Gleyed or Low-Chroma Colors</td> <td><input type="checkbox"/> Other (Explain in Remarks)</td> </tr> </table>						<input type="checkbox"/> Histosol	<input type="checkbox"/> Concretions	<input type="checkbox"/> Histic Epipedon	<input type="checkbox"/> High Organic Content in Surface Layer in Sandy Soils	<input checked="" type="checkbox"/> Sulfidic Odor	<input type="checkbox"/> Organic Streaking in Sandy Soils	<input type="checkbox"/> Aquic Moisture Regime	<input type="checkbox"/> Listed on Local Hydric Soils List	<input checked="" type="checkbox"/> Reducing Conditions	<input type="checkbox"/> Listed on National Hydric Soils List	<input checked="" type="checkbox"/> Gleyed or Low-Chroma Colors	<input type="checkbox"/> Other (Explain in Remarks)
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<input checked="" type="checkbox"/> Gleyed or Low-Chroma Colors	<input type="checkbox"/> Other (Explain in Remarks)																
Observations and Remarks: Sulfidic odor 1. Smell: <input type="checkbox"/> Neutral; <input type="checkbox"/> Slightly fresh; or <input type="checkbox"/> Freshly plowed field smell 2. Site: <input type="checkbox"/> Irrigated; <input type="checkbox"/> Land leveled; <input type="checkbox"/> Ditch drained; <input type="checkbox"/> Pumped; <input type="checkbox"/> Graded to drain via slope 3. Soils: <input checked="" type="checkbox"/> do <input type="checkbox"/> do not become frequently ponded or saturated for long (>7 days) to very long durations (>30 days) during the growing season																	

WETLAND DETERMINATION

Hydrophytic Vegetation Present? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Wetland Hydrology Present? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Hydric Soils Present? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Is this Sampling Point within a Wetland? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Remarks: 1. Possibly water of the U.S.? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No 2. Possibly exempt from Corps/EPA Regulation? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No (If yes, check item(s) below.) (a) <input type="checkbox"/> Non-tidal drainage and irrigation ditches excavated on dry land (b) <input type="checkbox"/> Artificially irrigated areas which would revert to upland if the irrigation ceased. (c) <input type="checkbox"/> Artificial lakes or ponds created by excavating and/or diking dry land to collect and retain water and which are used exclusively for such purposes as stock watering, irrigation, settling basins, or rice growing. (d) <input type="checkbox"/> Artificial reflecting or swimming pools or other small ornamental bodies of water created by excavating and/or diking dry land to retain water for primarily aesthetic reasons. (e) <input type="checkbox"/> Water-filled depressions created in dry land incidental to construction activity and pits excavated in dry land for the purpose of obtaining fill, sand, or gravel unless and until the construction or excavation operation is abandoned and the resulting body of water meets the definition of waters of the United States (see 33 CFR 328.3(a)).	

Approved by HQUSACE 3/92

Additional Comments/Remarks: **Sample point meets all three wetland criteria. Sample point is on inner edge of marsh.**

DATA FORM
ROUTINE ON-SITE DETERMINATION METHOD

Project/Site: Chula Vista Bayfront Applicant/Owner: Port of San Diego Investigator(s): RECON Env. - Jennifer MacAller, Peter Tomsovic	Date: 3/8/05 County: San Diego State: CA
Do Normal Circumstances exist on the site? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Is the site significantly disturbed (Atypical Situation)? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Is the area a potential Problem Area? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No (if needed, explain on reverse or attach separate sheet.)	Community ID: brackish marsh Transect ID: Plot ID: 13

VEGETATION

Dominant Plant Species	Stratum	Indicator	Dominant Plant Species	Stratum	Indicator
1. <i>Cyperus eragrostis</i>	H	FACW	9.		
2. <i>Salsola tragus</i>	H	NL	10. <i>Sub-dominants</i>		
3. <i>Distichlis spicata</i>	H	FACW	11. <i>Mesembryanthemum nodiflorum</i>	H	NL
4.			12.		
5.			13.		
6.			14.		
7.			15.		
8.			16.		

Percent of Dominant Species that are OBL, FACW, or FAC (excluding FAC-) 66%

Remarks: **Sample point is on fringe of marsh**

1. Assume presence of wetland vegetation? Yes No
 2. Rooted emergent vegetation present? Yes No

HYDROLOGY

<input checked="" type="checkbox"/> Recorded Data (Describe in Remarks): <input type="checkbox"/> Stream, Lake or Tide Gauge <input checked="" type="checkbox"/> Aerial Photographs <input type="checkbox"/> Other <input checked="" type="checkbox"/> No Recorded Data Available	Wetland Hydrology Indicators: Primary Indicators: <input type="checkbox"/> Inundated <input checked="" type="checkbox"/> Saturated in: <input checked="" type="checkbox"/> Upper 12" <input checked="" type="checkbox"/> 13-18" <input type="checkbox"/> Water Marks <input type="checkbox"/> Drift Lines <input type="checkbox"/> Sediment Deposits <input type="checkbox"/> Drainage Patterns in Wetlands Secondary Indicators (2 or more required): <input checked="" type="checkbox"/> Oxidized Root Channels in: <input checked="" type="checkbox"/> Upper 12" <input checked="" type="checkbox"/> 13-18" <input type="checkbox"/> Water-Stained Leaves <input type="checkbox"/> Local Soil Survey Data <input checked="" type="checkbox"/> FAC-Neutral Test <input type="checkbox"/> Other (Explain in Remarks)
Field Observations: Depth of Surface Water: <u>N/A</u> (in.) Depth to Water in Pit: <u>12</u> (in.) Depth to Saturated Soil: <u>0</u> (in.)	
Observations and Remarks: 1. Filamentous or sheet forming algae present? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No 2. Slope: <input checked="" type="checkbox"/> 0-2%; or <input type="checkbox"/> >2% 3. Oxidized rhizospheres: <input type="checkbox"/> new roots only; <input type="checkbox"/> old roots only; <input checked="" type="checkbox"/> new and old roots, <input type="checkbox"/> none 4. Flooding: <input type="checkbox"/> none, flooding not probable; <input type="checkbox"/> rare, unlikely but possible under unusual weather conditions; <input type="checkbox"/> occasional, occurs on an average of once or less in 2 years; or <input checked="" type="checkbox"/> frequent, occurs on an average of more than once in 2 years. 5. Duration: <input type="checkbox"/> very brief, if <2 days; <input type="checkbox"/> brief, if 2-7 days, or <input checked="" type="checkbox"/> long, if >7 days 6. Site ponds water? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	

SOILS

Map Unit Name (Series and Phase): Tidal Flats Taxonomy (Subgroup): (Filled)		Drainage Class: Permeability: Runoff: Field Observations: Confirm Mapped Type? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No															
Profile Description:																	
Depth (inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottle Abundance/ Contrast	Texture, Concretions, Structures, etc.												
0-1					Organic matter surface layer												
1-18		10YR4/2	10YR3/1	few/ distinct	sandy loam												
Hydric Soil Indicators: <table style="width:100%; border:none;"> <tr> <td><input type="checkbox"/> Histosol</td> <td><input type="checkbox"/> Concretions</td> </tr> <tr> <td><input type="checkbox"/> Histic Epipedon</td> <td><input type="checkbox"/> High Organic Content in Surface Layer in Sandy Soils</td> </tr> <tr> <td><input type="checkbox"/> Sulfidic Odor</td> <td><input type="checkbox"/> Organic Streaking in Sandy Soils</td> </tr> <tr> <td><input type="checkbox"/> Aquic Moisture Regime</td> <td><input type="checkbox"/> Listed on Local Hydric Soils List</td> </tr> <tr> <td><input checked="" type="checkbox"/> Reducing Conditions</td> <td><input type="checkbox"/> Listed on National Hydric Soils List</td> </tr> <tr> <td><input checked="" type="checkbox"/> Gleyed or Low-Chroma Colors</td> <td><input type="checkbox"/> Other (Explain in Remarks)</td> </tr> </table>						<input type="checkbox"/> Histosol	<input type="checkbox"/> Concretions	<input type="checkbox"/> Histic Epipedon	<input type="checkbox"/> High Organic Content in Surface Layer in Sandy Soils	<input type="checkbox"/> Sulfidic Odor	<input type="checkbox"/> Organic Streaking in Sandy Soils	<input type="checkbox"/> Aquic Moisture Regime	<input type="checkbox"/> Listed on Local Hydric Soils List	<input checked="" type="checkbox"/> Reducing Conditions	<input type="checkbox"/> Listed on National Hydric Soils List	<input checked="" type="checkbox"/> Gleyed or Low-Chroma Colors	<input type="checkbox"/> Other (Explain in Remarks)
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Observations and Remarks: 1. Smell: <input type="checkbox"/> Neutral; <input checked="" type="checkbox"/> Slightly fresh; or <input type="checkbox"/> Freshly plowed field smell 2. Site: <input type="checkbox"/> Irrigated; <input type="checkbox"/> Land leveled; <input type="checkbox"/> Ditch drained; <input type="checkbox"/> Pumped; <input type="checkbox"/> Graded to drain via slope 3. Soils: <input checked="" type="checkbox"/> do <input type="checkbox"/> do not become frequently ponded or saturated for long (>7 days) to very long durations (>30 days) during the growing season																	

WETLAND DETERMINATION

Hydrophytic Vegetation Present? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Wetland Hydrology Present? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Hydric Soils Present? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Is this Sampling Point within a Wetland? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Remarks: 1. Possibly water of the U.S.? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No 2. Possibly exempt from Corps/EPA Regulation? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No (If yes, check item(s) below.) (a) <input type="checkbox"/> Non-tidal drainage and irrigation ditches excavated on dry land (b) <input type="checkbox"/> Artificially irrigated areas which would revert to upland if the irrigation ceased. (c) <input type="checkbox"/> Artificial lakes or ponds created by excavating and/or diking dry land to collect and retain water and which are used exclusively for such purposes as stock watering, irrigation, settling basins, or rice growing. (d) <input type="checkbox"/> Artificial reflecting or swimming pools or other small ornamental bodies of water created by excavating and/or diking dry land to retain water for primarily aesthetic reasons. (e) <input type="checkbox"/> Water-filled depressions created in dry land incidental to construction activity and pits excavated in dry land for the purpose of obtaining fill, sand, or gravel unless and until the construction or excavation operation is abandoned and the resulting body of water meets the definition of waters of the United States (see 33 CFR 328.3(a)).	

Approved by HQUSACE 3/92

Additional Comments/Remarks: **Sample point meets all three wetland criteria.**

**DATA FORM
ROUTINE ON-SITE DETERMINATION METHOD**

Project/Site: Chula Vista Bayfront Applicant/Owner: Port of San Diego Investigator(s): RECON Env. - Jennifer MacAller, Peter Tomsovic	Date: 3/8/05 County: San Diego State: CA
Do Normal Circumstances exist on the site? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Is the site significantly disturbed (Atypical Situation)? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Is the area a potential Problem Area? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No (if needed, explain on reverse or attach separate sheet.)	Community ID: Dist. upland Transect ID: Plot ID: 14

VEGETATION

Dominant Plant Species	Stratum	Indicator	Dominant Plant Species	Stratum	Indicator
1. <i>Mesembryanthemum nodiflorum</i>	H	NL	9.		
2. <i>Salsola tragus</i>	H	NL	10.		
3.			11.		
4.			12.		
5.			13.		
6.			14.		
7.			15.		
8.			16.		

Percent of Dominant Species that are OBL, FACW, or FAC (excluding FAC-) 0%

Remarks: **Wetland vegetation not present.**

1. Assume presence of wetland vegetation? Yes No
 2. Rooted emergent vegetation present? Yes No

HYDROLOGY

<input type="checkbox"/> Recorded Data (Describe in Remarks): <input type="checkbox"/> Stream, Lake or Tide Gauge <input type="checkbox"/> Aerial Photographs <input type="checkbox"/> Other <input checked="" type="checkbox"/> No Recorded Data Available	Wetland Hydrology Indicators: Primary Indicators: <input type="checkbox"/> Inundated <input type="checkbox"/> Saturated in: <input type="checkbox"/> Upper 12" <input type="checkbox"/> 13-18" <input type="checkbox"/> Water Marks <input type="checkbox"/> Drift Lines <input type="checkbox"/> Sediment Deposits <input type="checkbox"/> Drainage Patterns in Wetlands Secondary Indicators (2 or more required): <input type="checkbox"/> Oxidized Root Channels in: <input type="checkbox"/> Upper 12" <input type="checkbox"/> 13-18" <input type="checkbox"/> Water-Stained Leaves <input type="checkbox"/> Local Soil Survey Data <input type="checkbox"/> FAC-Neutral Test <input type="checkbox"/> Other (Explain in Remarks)
Field Observations: Depth of Surface Water: N/A (in.) Depth to Water in Pit: ≥18 (in.) Depth to Saturated Soil: ≥18 (in.)	
<p>Observations and Remarks: Soil wet but not saturated. No hydrologic indicators present.</p> 1. Filamentous or sheet forming algae present? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No 2. Slope: <input checked="" type="checkbox"/> 0-2%; or <input type="checkbox"/> >2% 3. Oxidized rhizospheres: <input type="checkbox"/> new roots only; <input type="checkbox"/> old roots only; <input type="checkbox"/> new and old roots, <input checked="" type="checkbox"/> none 4. Flooding: <input type="checkbox"/> none, flooding not probable; <input type="checkbox"/> rare, unlikely but possible under unusual weather conditions; <input checked="" type="checkbox"/> occasional, occurs on an average of once or less in 2 years; or <input type="checkbox"/> frequent, occurs on an average of more than once in 2 years. 5. Duration: <input type="checkbox"/> very brief, if <2 days; <input checked="" type="checkbox"/> brief, if 2-7 days, or <input type="checkbox"/> long, if >7 days 6. Site ponds water? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	

SOILS

Map Unit Name (Series and Phase): Tidal Flats Taxonomy (Subgroup): (Filled)		Drainage Class: Permeability: Runoff: Field Observations: Confirm Mapped Type? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No															
Profile Description:																	
Depth (inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottle Abundance/ Contrast	Texture, Concretions, Structures, etc.												
0-18		10YR3/2	10YR4/6 10YR3/1	few/ distinct	sandy loam												
Hydric Soil Indicators: <table style="width:100%; border:none;"> <tr> <td><input type="checkbox"/> Histosol</td> <td><input type="checkbox"/> Concretions</td> </tr> <tr> <td><input type="checkbox"/> Histic Epipedon</td> <td><input type="checkbox"/> High Organic Content in Surface Layer in Sandy Soils</td> </tr> <tr> <td><input type="checkbox"/> Sulfidic Odor</td> <td><input type="checkbox"/> Organic Streaking in Sandy Soils</td> </tr> <tr> <td><input type="checkbox"/> Aquic Moisture Regime</td> <td><input type="checkbox"/> Listed on Local Hydric Soils List</td> </tr> <tr> <td><input checked="" type="checkbox"/> Reducing Conditions</td> <td><input type="checkbox"/> Listed on National Hydric Soils List</td> </tr> <tr> <td><input checked="" type="checkbox"/> Gleyed or Low-Chroma Colors</td> <td><input type="checkbox"/> Other (Explain in Remarks)</td> </tr> </table>						<input type="checkbox"/> Histosol	<input type="checkbox"/> Concretions	<input type="checkbox"/> Histic Epipedon	<input type="checkbox"/> High Organic Content in Surface Layer in Sandy Soils	<input type="checkbox"/> Sulfidic Odor	<input type="checkbox"/> Organic Streaking in Sandy Soils	<input type="checkbox"/> Aquic Moisture Regime	<input type="checkbox"/> Listed on Local Hydric Soils List	<input checked="" type="checkbox"/> Reducing Conditions	<input type="checkbox"/> Listed on National Hydric Soils List	<input checked="" type="checkbox"/> Gleyed or Low-Chroma Colors	<input type="checkbox"/> Other (Explain in Remarks)
<input type="checkbox"/> Histosol	<input type="checkbox"/> Concretions																
<input type="checkbox"/> Histic Epipedon	<input type="checkbox"/> High Organic Content in Surface Layer in Sandy Soils																
<input type="checkbox"/> Sulfidic Odor	<input type="checkbox"/> Organic Streaking in Sandy Soils																
<input type="checkbox"/> Aquic Moisture Regime	<input type="checkbox"/> Listed on Local Hydric Soils List																
<input checked="" type="checkbox"/> Reducing Conditions	<input type="checkbox"/> Listed on National Hydric Soils List																
<input checked="" type="checkbox"/> Gleyed or Low-Chroma Colors	<input type="checkbox"/> Other (Explain in Remarks)																
Observations and Remarks: 1. Smell: <input checked="" type="checkbox"/> Neutral; <input type="checkbox"/> Slightly fresh; or <input type="checkbox"/> Freshly plowed field smell 2. Site: <input type="checkbox"/> Irrigated; <input type="checkbox"/> Land leveled; <input type="checkbox"/> Ditch drained; <input type="checkbox"/> Pumped; <input type="checkbox"/> Graded to drain via slope 3. Soils: <input checked="" type="checkbox"/> do <input type="checkbox"/> do not become frequently ponded or saturated for long (>7 days) to very long durations (>30 days) during the growing season																	

WETLAND DETERMINATION

Hydrophytic Vegetation Present? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Wetland Hydrology Present? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Hydric Soils Present? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Is this Sampling Point within a Wetland? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Remarks: 1. Possibly water of the U.S.? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No 2. Possibly exempt from Corps/EPA Regulation? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No (If yes, check item(s) below.) (a) <input type="checkbox"/> Non-tidal drainage and irrigation ditches excavated on dry land (b) <input type="checkbox"/> Artificially irrigated areas which would revert to upland if the irrigation ceased. (c) <input type="checkbox"/> Artificial lakes or ponds created by excavating and/or diking dry land to collect and retain water and which are used exclusively for such purposes as stock watering, irrigation, settling basins, or rice growing. (d) <input type="checkbox"/> Artificial reflecting or swimming pools or other small ornamental bodies of water created by excavating and/or diking dry land to retain water for primarily aesthetic reasons. (e) <input type="checkbox"/> Water-filled depressions created in dry land incidental to construction activity and pits excavated in dry land for the purpose of obtaining fill, sand, or gravel unless and until the construction or excavation operation is abandoned and the resulting body of water meets the definition of waters of the United States (see 33 CFR 328.3(a)).	

Approved by HQUSACE 3/92

Additional Comments/Remarks: **Sample point shows hydric soil indicators but hydrology and hydrophytic vegetation not present. Soils may have developed under hydric conditions that are no longer present. This point defines the edge of the wetland/riparian boundary.**

DATA FORM
ROUTINE ON-SITE DETERMINATION METHOD

Project/Site: Chula Vista Bayfront Applicant/Owner: Port of San Diego Investigator(s): RECON Env. - Jennifer MacAller, Peter Tomsovic	Date: 3/8/05 County: San Diego State: CA
Do Normal Circumstances exist on the site? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Is the site significantly disturbed (Atypical Situation)? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Is the area a potential Problem Area? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No (if needed, explain on reverse or attach separate sheet.)	Community ID: Disturbed Transect ID: Plot ID: 15

VEGETATION

Dominant Plant Species	Stratum	Indicator	Dominant Plant Species	Stratum	Indicator
1. <i>Hordeum murinum</i>	H	NL	9.		
2. <i>Rumex crispus</i>	H	FACW-	10. <i>Sub-dominants</i>		
3. <i>Distichlis spicata</i>	H	FACW	11. <i>Medicago polymorpha</i>	H	FACU-
4.			12.		
5.			13.		
6.			14.		
7.			15.		
8.			16.		

Percent of Dominant Species that are OBL, FACW, or FAC (excluding FAC-) 66%

Remarks: **Sample point on inner marsh edge. Wetland vegetation is dominant.**

1. Assume presence of wetland vegetation? Yes No
 2. Rooted emergent vegetation present? Yes No

HYDROLOGY

<input type="checkbox"/> Recorded Data (Describe in Remarks): <input type="checkbox"/> Stream, Lake or Tide Gauge <input type="checkbox"/> Aerial Photographs <input type="checkbox"/> Other <input checked="" type="checkbox"/> No Recorded Data Available	Wetland Hydrology Indicators: Primary Indicators: <input checked="" type="checkbox"/> Inundated <input checked="" type="checkbox"/> Saturated in: <input checked="" type="checkbox"/> Upper 12" <input checked="" type="checkbox"/> 13-18" <input type="checkbox"/> Water Marks <input type="checkbox"/> Drift Lines <input type="checkbox"/> Sediment Deposits <input type="checkbox"/> Drainage Patterns in Wetlands Secondary Indicators (2 or more required): <input checked="" type="checkbox"/> Oxidized Root Channels in: <input checked="" type="checkbox"/> Upper 12" <input checked="" type="checkbox"/> 13-18" <input type="checkbox"/> Water-Stained Leaves <input type="checkbox"/> Local Soil Survey Data <input checked="" type="checkbox"/> FAC-Neutral Test <input type="checkbox"/> Other (Explain in Remarks)
Field Observations: Depth of Surface Water: <u>2</u> (in.) Depth to Water in Pit: <u>0</u> (in.) Depth to Saturated Soil: <u>0</u> (in.)	
Observations and Remarks: 1. Filamentous or sheet forming algae present? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No 2. Slope: <input checked="" type="checkbox"/> 0-2%; or <input type="checkbox"/> >2% 3. Oxidized rhizospheres: <input checked="" type="checkbox"/> new roots only; <input type="checkbox"/> old roots only; <input type="checkbox"/> new and old roots, <input type="checkbox"/> none 4. Flooding: <input type="checkbox"/> none, flooding not probable; <input type="checkbox"/> rare, unlikely but possible under unusual weather conditions; <input type="checkbox"/> occasional, occurs on an average of once or less in 2 years; or <input checked="" type="checkbox"/> frequent, occurs on an average of more than once in 2 years. 5. Duration: <input type="checkbox"/> very brief, if <2 days; <input type="checkbox"/> brief, if 2-7 days, or <input checked="" type="checkbox"/> long, if >7 days 6. Site ponds water? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	

SOILS

Map Unit Name (Series and Phase): Huerhuero loam - 2 to 9 percent slopes Taxonomy (Subgroup): Haplic Natrixeralfs		Drainage Class: Moderately well drained Permeability: Very slow Runoff: slow to medium Field Observations: Confirm Mapped Type? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No					
Profile Description:							
Depth (inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottle Abundance/ Contrast	Texture, Concretions, Structures, etc.		
0-6		7.5YR4/3	10YR3/1		sandy clay loam		
6-18		7.5YR4/3	10YR3/1		clay loam		
Hydric Soil Indicators: <table style="width: 100%; border: none;"> <tr> <td style="width: 50%; vertical-align: top;"> <input type="checkbox"/> Histosol <input type="checkbox"/> Histic Epipedon <input type="checkbox"/> Sulfidic Odor <input type="checkbox"/> Aquic Moisture Regime <input type="checkbox"/> Reducing Conditions <input type="checkbox"/> Gleyed or Low-Chroma Colors </td> <td style="width: 50%; vertical-align: top;"> <input type="checkbox"/> Concretions <input type="checkbox"/> High Organic Content in Surface Layer in Sandy Soils <input type="checkbox"/> Organic Streaking in Sandy Soils <input type="checkbox"/> Listed on Local Hydric Soils List <input type="checkbox"/> Listed on National Hydric Soils List <input type="checkbox"/> Other (Explain in Remarks) </td> </tr> </table>						<input type="checkbox"/> Histosol <input type="checkbox"/> Histic Epipedon <input type="checkbox"/> Sulfidic Odor <input type="checkbox"/> Aquic Moisture Regime <input type="checkbox"/> Reducing Conditions <input type="checkbox"/> Gleyed or Low-Chroma Colors	<input type="checkbox"/> Concretions <input type="checkbox"/> High Organic Content in Surface Layer in Sandy Soils <input type="checkbox"/> Organic Streaking in Sandy Soils <input type="checkbox"/> Listed on Local Hydric Soils List <input type="checkbox"/> Listed on National Hydric Soils List <input type="checkbox"/> Other (Explain in Remarks)
<input type="checkbox"/> Histosol <input type="checkbox"/> Histic Epipedon <input type="checkbox"/> Sulfidic Odor <input type="checkbox"/> Aquic Moisture Regime <input type="checkbox"/> Reducing Conditions <input type="checkbox"/> Gleyed or Low-Chroma Colors	<input type="checkbox"/> Concretions <input type="checkbox"/> High Organic Content in Surface Layer in Sandy Soils <input type="checkbox"/> Organic Streaking in Sandy Soils <input type="checkbox"/> Listed on Local Hydric Soils List <input type="checkbox"/> Listed on National Hydric Soils List <input type="checkbox"/> Other (Explain in Remarks)						
Observations and Remarks: 1. Smell: <input type="checkbox"/> Neutral; <input checked="" type="checkbox"/> Slightly fresh; or <input type="checkbox"/> Freshly plowed field smell 2. Site: <input type="checkbox"/> Irrigated; <input type="checkbox"/> Land leveled; <input type="checkbox"/> Ditch drained; <input type="checkbox"/> Pumped; <input type="checkbox"/> Graded to drain via slope 3. Soils: <input checked="" type="checkbox"/> do <input type="checkbox"/> do not become frequently ponded or saturated for long (>7 days) to very long durations (>30 days) during the growing season							

WETLAND DETERMINATION

Hydrophytic Vegetation Present? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Wetland Hydrology Present? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Hydric Soils Present? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Is this Sampling Point within a Wetland? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Remarks: 1. Possibly water of the U.S.? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No 2. Possibly exempt from Corps/EPA Regulation? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No (If yes, check item(s) below.) (a) <input type="checkbox"/> Non-tidal drainage and irrigation ditches excavated on dry land (b) <input type="checkbox"/> Artificially irrigated areas which would revert to upland if the irrigation ceased. (c) <input type="checkbox"/> Artificial lakes or ponds created by excavating and/or diking dry land to collect and retain water and which are used exclusively for such purposes as stock watering, irrigation, settling basins, or rice growing. (d) <input type="checkbox"/> Artificial reflecting or swimming pools or other small ornamental bodies of water created by excavating and/or diking dry land to retain water for primarily aesthetic reasons. (e) <input type="checkbox"/> Water-filled depressions created in dry land incidental to construction activity and pits excavated in dry land for the purpose of obtaining fill, sand, or gravel unless and until the construction or excavation operation is abandoned and the resulting body of water meets the definition of waters of the United States (see 33 CFR 328.3(a)).	

Approved by HQUSACE 3/92

Additional Comments/Remarks: **Sample point meets all three wetland criteria.**

**DATA FORM
ROUTINE ON-SITE DETERMINATION METHOD**

Project/Site: Chula Vista Bayfront Applicant/Owner: Port of San Diego Investigator(s): RECON Env. - Jennifer MacAller, Peter Tomsovic	Date: 3/8/05 County: San Diego State: CA
Do Normal Circumstances exist on the site? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Is the site significantly disturbed (Atypical Situation)? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Is the area a potential Problem Area? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No (if needed, explain on reverse or attach separate sheet.)	Community ID: Disturbed Transect ID: Plot ID: 16

VEGETATION

Dominant Plant Species	Stratum	Indicator	Dominant Plant Species	Stratum	Indicator
1. <i>Hordeum murinum</i>	H	NL	9.		
2. <i>Cynodon dactylon</i>	H	FACU	10.		
3. <i>Bromus madritensis</i>	H	NL	11.		
4. <i>Isocoma menziesii</i>	H	FAC+	12.		
5.			13.		
6.			14.		
7.			15.		
8.			16.		

Percent of Dominant Species that are OBL, FACW, or FAC (excluding FAC-) 25%

Remarks: **Wetland vegetation not present.**

1. Assume presence of wetland vegetation? Yes No
 2. Rooted emergent vegetation present? Yes No

HYDROLOGY

<input type="checkbox"/> Recorded Data (Describe in Remarks): <input type="checkbox"/> Stream, Lake or Tide Gauge <input type="checkbox"/> Aerial Photographs <input type="checkbox"/> Other <input checked="" type="checkbox"/> No Recorded Data Available	Wetland Hydrology Indicators: Primary Indicators: <input type="checkbox"/> Inundated <input type="checkbox"/> Saturated in: <input type="checkbox"/> Upper 12" <input type="checkbox"/> 13-18" <input type="checkbox"/> Water Marks <input type="checkbox"/> Drift Lines <input type="checkbox"/> Sediment Deposits <input type="checkbox"/> Drainage Patterns in Wetlands Secondary Indicators (2 or more required): <input type="checkbox"/> Oxidized Root Channels in: <input type="checkbox"/> Upper 12" <input type="checkbox"/> 13-18" <input type="checkbox"/> Water-Stained Leaves <input type="checkbox"/> Local Soil Survey Data <input type="checkbox"/> FAC-Neutral Test <input type="checkbox"/> Other (Explain in Remarks)
Field Observations: Depth of Surface Water: N/A (in.) Depth to Water in Pit: ≥18 (in.) Depth to Saturated Soil: ≥18 (in.)	
Observations and Remarks: No hydrologic indicators present 1. Filamentous or sheet forming algae present? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No 2. Slope: <input checked="" type="checkbox"/> 0-2%; or <input type="checkbox"/> >2% 3. Oxidized rhizospheres: <input type="checkbox"/> new roots only; <input type="checkbox"/> old roots only; <input type="checkbox"/> new and old roots, <input checked="" type="checkbox"/> none 4. Flooding: <input type="checkbox"/> none, flooding not probable; <input checked="" type="checkbox"/> rare, unlikely but possible under unusual weather conditions; <input type="checkbox"/> occasional, occurs on an average of once or less in 2 years; or <input type="checkbox"/> frequent, occurs on an average of more than once in 2 years. 5. Duration: <input checked="" type="checkbox"/> very brief, if <2 days; <input type="checkbox"/> brief, if 2-7 days, or <input type="checkbox"/> long, if >7 days 6. Site ponds water? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	

SOILS

Map Unit Name (Series and Phase): Huerhuero loam - 2 to 9 percent slopes Taxonomy (Subgroup): Haplic Natrixeralfs		Drainage Class: Moderately well drained Permeability: Very slow Runoff: slow to medium Field Observations: Confirm Mapped Type? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No															
Profile Description:																	
Depth (inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottle Abundance/ Contrast	Texture, Concretions, Structures, etc.												
0-12		10YR3/2			sandy loam												
12+		7.5YR4/3			clay (loam)												
Hydric Soil Indicators: <table style="width: 100%; border: none;"> <tr> <td><input type="checkbox"/> Histosol</td> <td><input type="checkbox"/> Concretions</td> </tr> <tr> <td><input type="checkbox"/> Histic Epipedon</td> <td><input type="checkbox"/> High Organic Content in Surface Layer in Sandy Soils</td> </tr> <tr> <td><input type="checkbox"/> Sulfidic Odor</td> <td><input type="checkbox"/> Organic Streaking in Sandy Soils</td> </tr> <tr> <td><input type="checkbox"/> Aquic Moisture Regime</td> <td><input type="checkbox"/> Listed on Local Hydric Soils List</td> </tr> <tr> <td><input type="checkbox"/> Reducing Conditions</td> <td><input type="checkbox"/> Listed on National Hydric Soils List</td> </tr> <tr> <td><input type="checkbox"/> Gleyed or Low-Chroma Colors</td> <td><input type="checkbox"/> Other (Explain in Remarks)</td> </tr> </table>						<input type="checkbox"/> Histosol	<input type="checkbox"/> Concretions	<input type="checkbox"/> Histic Epipedon	<input type="checkbox"/> High Organic Content in Surface Layer in Sandy Soils	<input type="checkbox"/> Sulfidic Odor	<input type="checkbox"/> Organic Streaking in Sandy Soils	<input type="checkbox"/> Aquic Moisture Regime	<input type="checkbox"/> Listed on Local Hydric Soils List	<input type="checkbox"/> Reducing Conditions	<input type="checkbox"/> Listed on National Hydric Soils List	<input type="checkbox"/> Gleyed or Low-Chroma Colors	<input type="checkbox"/> Other (Explain in Remarks)
<input type="checkbox"/> Histosol	<input type="checkbox"/> Concretions																
<input type="checkbox"/> Histic Epipedon	<input type="checkbox"/> High Organic Content in Surface Layer in Sandy Soils																
<input type="checkbox"/> Sulfidic Odor	<input type="checkbox"/> Organic Streaking in Sandy Soils																
<input type="checkbox"/> Aquic Moisture Regime	<input type="checkbox"/> Listed on Local Hydric Soils List																
<input type="checkbox"/> Reducing Conditions	<input type="checkbox"/> Listed on National Hydric Soils List																
<input type="checkbox"/> Gleyed or Low-Chroma Colors	<input type="checkbox"/> Other (Explain in Remarks)																
Observations and Remarks: 1. Smell: <input checked="" type="checkbox"/> Neutral; <input type="checkbox"/> Slightly fresh; or <input type="checkbox"/> Freshly plowed field smell 2. Site: <input type="checkbox"/> Irrigated; <input type="checkbox"/> Land leveled; <input type="checkbox"/> Ditch drained; <input type="checkbox"/> Pumped; <input type="checkbox"/> Graded to drain via slope 3. Soils: <input type="checkbox"/> do <input checked="" type="checkbox"/> do not become frequently ponded or saturated for long (>7 days) to very long durations (>30 days) during the growing season																	

WETLAND DETERMINATION

Hydrophytic Vegetation Present? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Wetland Hydrology Present? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Hydric Soils Present? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Is this Sampling Point within a Wetland? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Remarks: 1. Possibly water of the U.S.? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No 2. Possibly exempt from Corps/EPA Regulation? <input type="checkbox"/> Yes <input type="checkbox"/> No (If yes, check item(s) below.) (a) <input type="checkbox"/> Non-tidal drainage and irrigation ditches excavated on dry land (b) <input type="checkbox"/> Artificially irrigated areas which would revert to upland if the irrigation ceased. (c) <input type="checkbox"/> Artificial lakes or ponds created by excavating and/or diking dry land to collect and retain water and which are used exclusively for such purposes as stock watering, irrigation, settling basins, or rice growing. (d) <input type="checkbox"/> Artificial reflecting or swimming pools or other small ornamental bodies of water created by excavating and/or diking dry land to retain water for primarily aesthetic reasons. (e) <input type="checkbox"/> Water-filled depressions created in dry land incidental to construction activity and pits excavated in dry land for the purpose of obtaining fill, sand, or gravel unless and until the construction or excavation operation is abandoned and the resulting body of water meets the definition of waters of the United States (see 33 CFR 328.3(a)).	

Approved by HQUSACE 3/92

Additional Comments/Remarks: **Sample point does not meet any of the three wetland criteria. Site is in CDFG floodplain/disturbed riparian area.**

DATA FORM
ROUTINE ON-SITE DETERMINATION METHOD

Project/Site: Chula Vista Bayfront Applicant/Owner: Port of San Diego Investigator(s): RECON Env. - Jennifer MacAller, Peter Tomsovic	Date: 3/8/05 County: San Diego State: CA
Do Normal Circumstances exist on the site? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Is the site significantly disturbed (Atypical Situation)? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Is the area a potential Problem Area? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No (if needed, explain on reverse or attach separate sheet.)	Community ID: Disturbed Transect ID: Plot ID: 17

VEGETATION

Dominant Plant Species	Stratum	Indicator	Dominant Plant Species	Stratum	Indicator
1. <i>Brassica sp.</i>	H	NL	9.		
2. <i>Chrysanthemum sp.</i>	H	NL	10.		
3.			11.		
4.			12.		
5.			13.		
6.			14.		
7.			15.		
8.			16.		

Percent of Dominant Species that are OBL, FACW, or FAC (excluding FAC-) 0%

Remarks: **Wetland vegetation not present.**

1. Assume presence of wetland vegetation? Yes No
 2. Rooted emergent vegetation present? Yes No

HYDROLOGY

<input type="checkbox"/> Recorded Data (Describe in Remarks): <input type="checkbox"/> Stream, Lake or Tide Gauge <input type="checkbox"/> Aerial Photographs <input type="checkbox"/> Other <input checked="" type="checkbox"/> No Recorded Data Available	Wetland Hydrology Indicators: Primary Indicators: <input type="checkbox"/> Inundated <input type="checkbox"/> Saturated in: <input type="checkbox"/> Upper 12" <input type="checkbox"/> 13-18" <input type="checkbox"/> Water Marks <input type="checkbox"/> Drift Lines <input type="checkbox"/> Sediment Deposits <input type="checkbox"/> Drainage Patterns in Wetlands Secondary Indicators (2 or more required): <input type="checkbox"/> Oxidized Root Channels in: <input type="checkbox"/> Upper 12" <input type="checkbox"/> 13-18" <input type="checkbox"/> Water-Stained Leaves <input type="checkbox"/> Local Soil Survey Data <input type="checkbox"/> FAC-Neutral Test <input type="checkbox"/> Other (Explain in Remarks)
Field Observations: Depth of Surface Water: N/A (in.) Depth to Water in Pit: ≥18 (in.) Depth to Saturated Soil: ≥18 (in.)	
<p><i>Observations and Remarks: Sample point is a small hummock at the fringe of the marsh. Higher in elevation than surrounding areas.</i></p> 1. Filamentous or sheet forming algae present? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No 2. Slope: <input type="checkbox"/> 0-2%; or <input checked="" type="checkbox"/> >2% 3. Oxidized rhizospheres: <input type="checkbox"/> new roots only; <input type="checkbox"/> old roots only; <input type="checkbox"/> new and old roots, <input checked="" type="checkbox"/> none 4. Flooding: <input type="checkbox"/> none, flooding not probable; <input checked="" type="checkbox"/> rare, unlikely but possible under unusual weather conditions; <input type="checkbox"/> occasional, occurs on an average of once or less in 2 years; or <input type="checkbox"/> frequent, occurs on an average of more than once in 2 years. 5. Duration: <input type="checkbox"/> very brief, if <2 days; <input type="checkbox"/> brief, if 2-7 days, or <input type="checkbox"/> long, if >7 days 6. Site ponds water? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	

SOILS

Map Unit Name (Series and Phase): Tidal flats Taxonomy (Subgroup): (filled)		Drainage Class: Permeability: Runoff: Field Observations: Confirm Mapped Type? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No															
Profile Description:																	
Depth (inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottle Abundance/ Contrast	Texture, Concretions, Structures, etc.												
0-18		10YR3/2	10YR4/1 (gleying) 10YR4/6	common/ distinct	sandy clay loam												
Hydric Soil Indicators: <table style="width:100%; border:none;"> <tr> <td><input type="checkbox"/> Histosol</td> <td><input type="checkbox"/> Concretions</td> </tr> <tr> <td><input type="checkbox"/> Histic Epipedon</td> <td><input type="checkbox"/> High Organic Content in Surface Layer in Sandy Soils</td> </tr> <tr> <td><input type="checkbox"/> Sulfidic Odor</td> <td><input type="checkbox"/> Organic Streaking in Sandy Soils</td> </tr> <tr> <td><input type="checkbox"/> Aquic Moisture Regime</td> <td><input type="checkbox"/> Listed on Local Hydric Soils List</td> </tr> <tr> <td><input checked="" type="checkbox"/> Reducing Conditions</td> <td><input type="checkbox"/> Listed on National Hydric Soils List</td> </tr> <tr> <td><input checked="" type="checkbox"/> Gleyed or Low-Chroma Colors</td> <td><input type="checkbox"/> Other (Explain in Remarks)</td> </tr> </table>						<input type="checkbox"/> Histosol	<input type="checkbox"/> Concretions	<input type="checkbox"/> Histic Epipedon	<input type="checkbox"/> High Organic Content in Surface Layer in Sandy Soils	<input type="checkbox"/> Sulfidic Odor	<input type="checkbox"/> Organic Streaking in Sandy Soils	<input type="checkbox"/> Aquic Moisture Regime	<input type="checkbox"/> Listed on Local Hydric Soils List	<input checked="" type="checkbox"/> Reducing Conditions	<input type="checkbox"/> Listed on National Hydric Soils List	<input checked="" type="checkbox"/> Gleyed or Low-Chroma Colors	<input type="checkbox"/> Other (Explain in Remarks)
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<input checked="" type="checkbox"/> Gleyed or Low-Chroma Colors	<input type="checkbox"/> Other (Explain in Remarks)																
Observations and Remarks: 1. Smell: <input type="checkbox"/> Neutral; <input checked="" type="checkbox"/> Slightly fresh; or <input type="checkbox"/> Freshly plowed field smell 2. Site: <input type="checkbox"/> Irrigated; <input type="checkbox"/> Land leveled; <input type="checkbox"/> Ditch drained; <input type="checkbox"/> Pumped; <input type="checkbox"/> Graded to drain via slope 3. Soils: <input type="checkbox"/> do <input checked="" type="checkbox"/> do not become frequently ponded or saturated for long (>7 days) to very long durations (>30 days) during the growing season																	

WETLAND DETERMINATION

Hydrophytic Vegetation Present? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Wetland Hydrology Present? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Hydric Soils Present? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Is this Sampling Point within a Wetland? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Remarks: 1. Possibly water of the U.S.? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No 2. Possibly exempt from Corps/EPA Regulation? <input type="checkbox"/> Yes <input type="checkbox"/> No (If yes, check item(s) below.) (a) <input type="checkbox"/> Non-tidal drainage and irrigation ditches excavated on dry land (b) <input type="checkbox"/> Artificially irrigated areas which would revert to upland if the irrigation ceased. (c) <input type="checkbox"/> Artificial lakes or ponds created by excavating and/or diking dry land to collect and retain water and which are used exclusively for such purposes as stock watering, irrigation, settling basins, or rice growing. (d) <input type="checkbox"/> Artificial reflecting or swimming pools or other small ornamental bodies of water created by excavating and/or diking dry land to retain water for primarily aesthetic reasons. (e) <input type="checkbox"/> Water-filled depressions created in dry land incidental to construction activity and pits excavated in dry land for the purpose of obtaining fill, sand, or gravel unless and until the construction or excavation operation is abandoned and the resulting body of water meets the definition of waters of the United States (see 33 CFR 328.3(a)).	

Approved by HQUSACE 3/92

Additional Comments/Remarks: **Sample point does not meet all three wetland criteria. Hydric soil indicators present. Soil likely developed under different hydrologic conditions than what currently exists. Point within CDFG floodplain/disturbed riparian.**

DATA FORM
ROUTINE ON-SITE DETERMINATION METHOD

Project/Site: Chula Vista Bayfront Applicant/Owner: Port of San Diego Investigator(s): RECON Env. - Jennifer MacAller, Peter Tomsovic	Date: 3/8/05 County: San Diego State: CA
Do Normal Circumstances exist on the site? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Is the site significantly disturbed (Atypical Situation)? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Is the area a potential Problem Area? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No (if needed, explain on reverse or attach separate sheet.)	Community ID: brackish marsh Transect ID: Plot ID: 18

VEGETATION

Dominant Plant Species	Stratum	Indicator	Dominant Plant Species	Stratum	Indicator
1. <i>Cyperus eragrostis</i>	H	FACW	9.		
2. <i>Salicornia virginica</i>	H	OBL	10.		
3. <i>Lythrum hyssopifolium</i>	H	FACW	11.		
4.			12.		
5.			13.		
6.			14.		
7.			15.		
8.			16.		

Percent of Dominant Species that are OBL, FACW, or FAC (excluding FAC-) 100%

Remarks: **Wetland vegetation dominant.**

1. Assume presence of wetland vegetation? Yes No
 2. Rooted emergent vegetation present? Yes No

HYDROLOGY

<input type="checkbox"/> Recorded Data (Describe in Remarks): <input type="checkbox"/> Stream, Lake or Tide Gauge <input type="checkbox"/> Aerial Photographs <input type="checkbox"/> Other <input checked="" type="checkbox"/> No Recorded Data Available	Wetland Hydrology Indicators: Primary Indicators: <input checked="" type="checkbox"/> Inundated <input checked="" type="checkbox"/> Saturated in: <input checked="" type="checkbox"/> Upper 12" <input checked="" type="checkbox"/> 13-18" <input type="checkbox"/> Water Marks <input type="checkbox"/> Drift Lines <input type="checkbox"/> Sediment Deposits <input type="checkbox"/> Drainage Patterns in Wetlands Secondary Indicators (2 or more required): <input type="checkbox"/> Oxidized Root Channels in: <input type="checkbox"/> Upper 12" <input type="checkbox"/> 13-18" <input type="checkbox"/> Water-Stained Leaves <input type="checkbox"/> Local Soil Survey Data <input checked="" type="checkbox"/> FAC-Neutral Test <input type="checkbox"/> Other (Explain in Remarks)
Field Observations: Depth of Surface Water: <u>3</u> (in.) Depth to Water in Pit: <u>0</u> (in.) Depth to Saturated Soil: <u>0</u> (in.)	
Observations and Remarks: 1. Filamentous or sheet forming algae present? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No 2. Slope: <input checked="" type="checkbox"/> 0-2%; or <input type="checkbox"/> >2% 3. Oxidized rhizospheres: <input type="checkbox"/> new roots only; <input type="checkbox"/> old roots only; <input type="checkbox"/> new and old roots, <input checked="" type="checkbox"/> none 4. Flooding: <input type="checkbox"/> none, flooding not probable; <input type="checkbox"/> rare, unlikely but possible under unusual weather conditions; <input checked="" type="checkbox"/> occasional, occurs on an average of once or less in 2 years; or <input type="checkbox"/> frequent, occurs on an average of more than once in 2 years. 5. Duration: <input type="checkbox"/> very brief, if <2 days; <input type="checkbox"/> brief, if 2-7 days, or <input checked="" type="checkbox"/> long, if >7 days 6. Site ponds water? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	

SOILS

Map Unit Name (Series and Phase): Tidal flats Taxonomy (Subgroup): (filled)		Drainage Class: Permeability: Runoff: Field Observations: Confirm Mapped Type? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No															
Profile Description:																	
Depth (inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottle Abundance/ Contrast	Texture, Concretions, Structures, etc.												
0-18		10YR3/2	10YR4/1 (gleying) 10YR4/6	common/ distinct few/ distinct	sandy loam												
Hydric Soil Indicators: <table style="width:100%; border:none;"> <tr> <td><input type="checkbox"/> Histosol</td> <td><input type="checkbox"/> Concretions</td> </tr> <tr> <td><input type="checkbox"/> Histic Epipedon</td> <td><input type="checkbox"/> High Organic Content in Surface Layer in Sandy Soils</td> </tr> <tr> <td><input checked="" type="checkbox"/> Sulfidic Odor</td> <td><input type="checkbox"/> Organic Streaking in Sandy Soils</td> </tr> <tr> <td><input type="checkbox"/> Aquic Moisture Regime</td> <td><input type="checkbox"/> Listed on Local Hydric Soils List</td> </tr> <tr> <td><input checked="" type="checkbox"/> Reducing Conditions</td> <td><input type="checkbox"/> Listed on National Hydric Soils List</td> </tr> <tr> <td><input checked="" type="checkbox"/> Gleyed or Low-Chroma Colors</td> <td><input type="checkbox"/> Other (Explain in Remarks)</td> </tr> </table>						<input type="checkbox"/> Histosol	<input type="checkbox"/> Concretions	<input type="checkbox"/> Histic Epipedon	<input type="checkbox"/> High Organic Content in Surface Layer in Sandy Soils	<input checked="" type="checkbox"/> Sulfidic Odor	<input type="checkbox"/> Organic Streaking in Sandy Soils	<input type="checkbox"/> Aquic Moisture Regime	<input type="checkbox"/> Listed on Local Hydric Soils List	<input checked="" type="checkbox"/> Reducing Conditions	<input type="checkbox"/> Listed on National Hydric Soils List	<input checked="" type="checkbox"/> Gleyed or Low-Chroma Colors	<input type="checkbox"/> Other (Explain in Remarks)
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<input checked="" type="checkbox"/> Gleyed or Low-Chroma Colors	<input type="checkbox"/> Other (Explain in Remarks)																
Observations and Remarks: 1. Smell: <input type="checkbox"/> Neutral; <input checked="" type="checkbox"/> Slightly fresh; or <input type="checkbox"/> Freshly plowed field smell 2. Site: <input type="checkbox"/> Irrigated; <input type="checkbox"/> Land leveled; <input type="checkbox"/> Ditch drained; <input type="checkbox"/> Pumped; <input type="checkbox"/> Graded to drain via slope 3. Soils: <input checked="" type="checkbox"/> do <input type="checkbox"/> do not become frequently ponded or saturated for long (>7 days) to very long durations (>30 days) during the growing season																	

WETLAND DETERMINATION

Hydrophytic Vegetation Present? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Wetland Hydrology Present? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Hydric Soils Present? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Is this Sampling Point within a Wetland? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Remarks: 1. Possibly water of the U.S.? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No 2. Possibly exempt from Corps/EPA Regulation? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No (If yes, check item(s) below.) (a) <input type="checkbox"/> Non-tidal drainage and irrigation ditches excavated on dry land (b) <input type="checkbox"/> Artificially irrigated areas which would revert to upland if the irrigation ceased. (c) <input type="checkbox"/> Artificial lakes or ponds created by excavating and/or diking dry land to collect and retain water and which are used exclusively for such purposes as stock watering, irrigation, settling basins, or rice growing. (d) <input type="checkbox"/> Artificial reflecting or swimming pools or other small ornamental bodies of water created by excavating and/or diking dry land to retain water for primarily aesthetic reasons. (e) <input type="checkbox"/> Water-filled depressions created in dry land incidental to construction activity and pits excavated in dry land for the purpose of obtaining fill, sand, or gravel unless and until the construction or excavation operation is abandoned and the resulting body of water meets the definition of waters of the United States (see 33 CFR 328.3(a)).	

Approved by HQUSACE 3/92

Additional Comments/Remarks: **Sample point meets all three wetland criteria.**

DATA FORM
ROUTINE ON-SITE DETERMINATION METHOD

Project/Site: Chula Vista Bayfront Applicant/Owner: Port of San Diego Investigator(s): RECON Env. - Jennifer MacAller, Peter Tomsovic	Date: 3/8/05 County: San Diego State: CA
Do Normal Circumstances exist on the site? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Is the site significantly disturbed (Atypical Situation)? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Is the area a potential Problem Area? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No (if needed, explain on reverse or attach separate sheet.)	Community ID: Dist. wetland Transect ID: Plot ID: 19

VEGETATION

Dominant Plant Species	Stratum	Indicator	Dominant Plant Species	Stratum	Indicator
1. <i>Amblyopappus pusillus</i>	H	FACW-	9.		
2.			10. <i>Sub-dominant</i>		
3.			11. <i>Mesembryanthemum nodiflorum</i>	H	NL
4.			12. <i>Atriplex semibaccata</i>	H	FAC
5.			13. <i>Frankenia salina</i>	H	FACW+
6.			14. <i>Sonchus oleraceus</i>	H	NL
7.			15. <i>Melilotus indica</i>	S	FAC
8.			16.		

Percent of Dominant Species that are OBL, FACW, or FAC (excluding FAC-) 100%

Remarks: **Wetland vegetation dominant.**

1. Assume presence of wetland vegetation? Yes No
 2. Rooted emergent vegetation present? Yes No

HYDROLOGY

<input type="checkbox"/> Recorded Data (Describe in Remarks): <input type="checkbox"/> Stream, Lake or Tide Gauge <input type="checkbox"/> Aerial Photographs <input type="checkbox"/> Other <input checked="" type="checkbox"/> No Recorded Data Available	Wetland Hydrology Indicators: Primary Indicators: <input type="checkbox"/> Inundated <input type="checkbox"/> Saturated in: <input type="checkbox"/> Upper 12" <input type="checkbox"/> 13-18" <input type="checkbox"/> Water Marks <input type="checkbox"/> Drift Lines <input type="checkbox"/> Sediment Deposits <input type="checkbox"/> Drainage Patterns in Wetlands Secondary Indicators (2 or more required): <input checked="" type="checkbox"/> Oxidized Root Channels in: <input checked="" type="checkbox"/> Upper 12" <input checked="" type="checkbox"/> 13-18" <input type="checkbox"/> Water-Stained Leaves <input type="checkbox"/> Local Soil Survey Data <input checked="" type="checkbox"/> FAC-Neutral Test <input type="checkbox"/> Other (Explain in Remarks)
Field Observations: Depth of Surface Water: 0 (in.) Depth to Water in Pit: ≥18 (in.) Depth to Saturated Soil: ≥18 (in.)	
Observations and Remarks: Soil is moist 1. Filamentous or sheet forming algae present? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No 2. Slope: <input checked="" type="checkbox"/> 0-2%; or <input type="checkbox"/> >2% 3. Oxidized rhizospheres: <input checked="" type="checkbox"/> new roots only; <input type="checkbox"/> old roots only; <input type="checkbox"/> new and old roots, <input checked="" type="checkbox"/> none 4. Flooding: <input type="checkbox"/> none, flooding not probable; <input type="checkbox"/> rare, unlikely but possible under unusual weather conditions; <input checked="" type="checkbox"/> occasional, occurs on an average of once or less in 2 years; or <input type="checkbox"/> frequent, occurs on an average of more than once in 2 years. 5. Duration: <input type="checkbox"/> very brief, if <2 days; <input type="checkbox"/> brief, if 2-7 days, or <input checked="" type="checkbox"/> long, if >7 days 6. Site ponds water? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	

SOILS

Map Unit Name (Series and Phase): Tidal flats Taxonomy (Subgroup): (filled)		Drainage Class: Permeability: Runoff: Field Observations: Confirm Mapped Type? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No															
Profile Description:																	
Depth (inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottle Abundance/ Contrast	Texture, Concretions, Structures, etc.												
0-18		10YR3/2	5YR4/4 10YR3/1	common/ distinct	sandy clay loam												
Hydric Soil Indicators: <table style="width:100%; border:none;"> <tr> <td><input type="checkbox"/> Histosol</td> <td><input type="checkbox"/> Concretions</td> </tr> <tr> <td><input type="checkbox"/> Histic Epipedon</td> <td><input type="checkbox"/> High Organic Content in Surface Layer in Sandy Soils</td> </tr> <tr> <td><input type="checkbox"/> Sulfidic Odor</td> <td><input type="checkbox"/> Organic Streaking in Sandy Soils</td> </tr> <tr> <td><input type="checkbox"/> Aquic Moisture Regime</td> <td><input type="checkbox"/> Listed on Local Hydric Soils List</td> </tr> <tr> <td><input checked="" type="checkbox"/> Reducing Conditions</td> <td><input type="checkbox"/> Listed on National Hydric Soils List</td> </tr> <tr> <td><input checked="" type="checkbox"/> Gleyed or Low-Chroma Colors</td> <td><input type="checkbox"/> Other (Explain in Remarks)</td> </tr> </table>						<input type="checkbox"/> Histosol	<input type="checkbox"/> Concretions	<input type="checkbox"/> Histic Epipedon	<input type="checkbox"/> High Organic Content in Surface Layer in Sandy Soils	<input type="checkbox"/> Sulfidic Odor	<input type="checkbox"/> Organic Streaking in Sandy Soils	<input type="checkbox"/> Aquic Moisture Regime	<input type="checkbox"/> Listed on Local Hydric Soils List	<input checked="" type="checkbox"/> Reducing Conditions	<input type="checkbox"/> Listed on National Hydric Soils List	<input checked="" type="checkbox"/> Gleyed or Low-Chroma Colors	<input type="checkbox"/> Other (Explain in Remarks)
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Observations and Remarks: 1. Smell: <input checked="" type="checkbox"/> Neutral; <input type="checkbox"/> Slightly fresh; or <input type="checkbox"/> Freshly plowed field smell 2. Site: <input type="checkbox"/> Irrigated; <input type="checkbox"/> Land leveled; <input type="checkbox"/> Ditch drained; <input type="checkbox"/> Pumped; <input type="checkbox"/> Graded to drain via slope 3. Soils: <input checked="" type="checkbox"/> do <input type="checkbox"/> do not become frequently ponded or saturated for long (>7 days) to very long durations (>30 days) during the growing season																	

WETLAND DETERMINATION

Hydrophytic Vegetation Present? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Wetland Hydrology Present? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Hydric Soils Present? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Is this Sampling Point within a Wetland? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Remarks: 1. Possibly water of the U.S.? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No 2. Possibly exempt from Corps/EPA Regulation? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No (If yes, check item(s) below.) (a) <input type="checkbox"/> Non-tidal drainage and irrigation ditches excavated on dry land (b) <input type="checkbox"/> Artificially irrigated areas which would revert to upland if the irrigation ceased. (c) <input type="checkbox"/> Artificial lakes or ponds created by excavating and/or diking dry land to collect and retain water and which are used exclusively for such purposes as stock watering, irrigation, settling basins, or rice growing. (d) <input type="checkbox"/> Artificial reflecting or swimming pools or other small ornamental bodies of water created by excavating and/or diking dry land to retain water for primarily aesthetic reasons. (e) <input type="checkbox"/> Water-filled depressions created in dry land incidental to construction activity and pits excavated in dry land for the purpose of obtaining fill, sand, or gravel unless and until the construction or excavation operation is abandoned and the resulting body of water meets the definition of waters of the United States (see 33 CFR 328.3(a)).	

Approved by HQUSACE 3/92

Additional Comments/Remarks: **Sample point meets all three wetland criteria.**

DATA FORM
ROUTINE ON-SITE DETERMINATION METHOD

Project/Site: Chula Vista Bayfront Applicant/Owner: Port of San Diego Investigator(s): RECON Env. - Jennifer MacAller, Peter Tomsovic	Date: 3/8/05 County: San Diego State: CA
Do Normal Circumstances exist on the site? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Is the site significantly disturbed (Atypical Situation)? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Is the area a potential Problem Area? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No (if needed, explain on reverse or attach separate sheet.)	Community ID: Dist. upland Transect ID: Plot ID: 20

VEGETATION

Dominant Plant Species	Stratum	Indicator	Dominant Plant Species	Stratum	Indicator
1. <i>Chrysanthemum sp.</i>	H	NL	9.		
2.			10.		
3.			11.		
4.			12.		
5.			13.		
6.			14.		
7.			15.		
8.			16.		

Percent of Dominant Species that are OBL, FACW, or FAC (excluding FAC-) 0%

Remarks: **Wetland vegetation not present.**

1. Assume presence of wetland vegetation? Yes No
 2. Rooted emergent vegetation present? Yes No

HYDROLOGY

<input type="checkbox"/> Recorded Data (Describe in Remarks): <input type="checkbox"/> Stream, Lake or Tide Gauge <input type="checkbox"/> Aerial Photographs <input type="checkbox"/> Other <input checked="" type="checkbox"/> No Recorded Data Available	Wetland Hydrology Indicators: Primary Indicators: <input type="checkbox"/> Inundated <input type="checkbox"/> Saturated in: <input type="checkbox"/> Upper 12" <input type="checkbox"/> 13-18" <input type="checkbox"/> Water Marks <input type="checkbox"/> Drift Lines <input type="checkbox"/> Sediment Deposits <input type="checkbox"/> Drainage Patterns in Wetlands Secondary Indicators (2 or more required): <input type="checkbox"/> Oxidized Root Channels in: <input type="checkbox"/> Upper 12" <input type="checkbox"/> 13-18" <input type="checkbox"/> Water-Stained Leaves <input type="checkbox"/> Local Soil Survey Data <input type="checkbox"/> FAC-Neutral Test <input type="checkbox"/> Other (Explain in Remarks)
Field Observations: Depth of Surface Water: 0 (in.) Depth to Water in Pit: ≥18 (in.) Depth to Saturated Soil: ≥18 (in.)	
Observations and Remarks: 1. Filamentous or sheet forming algae present? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No 2. Slope: <input checked="" type="checkbox"/> 0-2%; or <input type="checkbox"/> >2% 3. Oxidized rhizospheres: <input type="checkbox"/> new roots only; <input type="checkbox"/> old roots only; <input type="checkbox"/> new and old roots, <input checked="" type="checkbox"/> none 4. Flooding: <input type="checkbox"/> none, flooding not probable; <input checked="" type="checkbox"/> rare, unlikely but possible under unusual weather conditions; <input type="checkbox"/> occasional, occurs on an average of once or less in 2 years; or <input type="checkbox"/> frequent, occurs on an average of more than once in 2 years. 5. Duration: <input checked="" type="checkbox"/> very brief, if <2 days; <input type="checkbox"/> brief, if 2-7 days, or <input type="checkbox"/> long, if >7 days 6. Site ponds water? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	

SOILS

Map Unit Name (Series and Phase): Tidal flats Taxonomy (Subgroup): (filled)		Drainage Class: Permeability: Runoff: Field Observations: Confirm Mapped Type? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No															
Profile Description:																	
Depth (inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottle Abundance/ Contrast	Texture, Concretions, Structures, etc.												
0-18		10YR3/2	5YR4/4 10YR3/1	common/ distinct	sandy clay loam												
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WETLAND DETERMINATION

Hydrophytic Vegetation Present? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Wetland Hydrology Present? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Hydric Soils Present? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Is this Sampling Point within a Wetland? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Remarks: 1. Possibly water of the U.S.? <input type="checkbox"/> Yes <input type="checkbox"/> No 2. Possibly exempt from Corps/EPA Regulation? <input type="checkbox"/> Yes <input type="checkbox"/> No (If yes, check item(s) below.) (a) <input type="checkbox"/> Non-tidal drainage and irrigation ditches excavated on dry land (b) <input type="checkbox"/> Artificially irrigated areas which would revert to upland if the irrigation ceased. (c) <input type="checkbox"/> Artificial lakes or ponds created by excavating and/or diking dry land to collect and retain water and which are used exclusively for such purposes as stock watering, irrigation, settling basins, or rice growing. (d) <input type="checkbox"/> Artificial reflecting or swimming pools or other small ornamental bodies of water created by excavating and/or diking dry land to retain water for primarily aesthetic reasons. (e) <input type="checkbox"/> Water-filled depressions created in dry land incidental to construction activity and pits excavated in dry land for the purpose of obtaining fill, sand, or gravel unless and until the construction or excavation operation is abandoned and the resulting body of water meets the definition of waters of the United States (see 33 CFR 328.3(a)).	

Approved by HQUSACE 3/92

Additional Comments/Remarks: **Sample point does not meet all three wetland criteria. The entire surrounding area has hydric soil indicators and is likely a remnant condition that no longer exists. Area is topographically above brackish marsh. Hydrophytic vegetation occurs to the east. Point is upland border of disturbed marsh.**

DATA FORM
ROUTINE ON-SITE DETERMINATION METHOD

Project/Site: Chula Vista Bayfront Applicant/Owner: Port of San Diego Investigator(s): RECON Env. - Jennifer MacAller, Peter Tomsovic	Date: 3/8/05 County: San Diego State: CA
Do Normal Circumstances exist on the site? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Is the site significantly disturbed (Atypical Situation)? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Is the area a potential Problem Area? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No (if needed, explain on reverse or attach separate sheet.)	Community ID: Dist. upland Transect ID: Plot ID: 21

VEGETATION

Dominant Plant Species	Stratum	Indicator	Dominant Plant Species	Stratum	Indicator
1. <i>Chrysanthemum sp.</i>	H	NL	9.		
2. <i>Bromus madritensis</i>	H	NL	10.		
3.			11.		
4.			12.		
5.			13.		
6.			14.		
7.			15.		
8.			16.		

Percent of Dominant Species that are OBL, FACW, or FAC (excluding FAC-) 0%

Remarks: **Wetland vegetation not present.**

1. Assume presence of wetland vegetation? Yes No
 2. Rooted emergent vegetation present? Yes No

HYDROLOGY

<input type="checkbox"/> Recorded Data (Describe in Remarks): <input type="checkbox"/> Stream, Lake or Tide Gauge <input type="checkbox"/> Aerial Photographs <input type="checkbox"/> Other <input checked="" type="checkbox"/> No Recorded Data Available	Wetland Hydrology Indicators: Primary Indicators: <input type="checkbox"/> Inundated <input type="checkbox"/> Saturated in: <input type="checkbox"/> Upper 12" <input type="checkbox"/> 13-18" <input type="checkbox"/> Water Marks <input type="checkbox"/> Drift Lines <input type="checkbox"/> Sediment Deposits <input type="checkbox"/> Drainage Patterns in Wetlands Secondary Indicators (2 or more required): <input type="checkbox"/> Oxidized Root Channels in: <input type="checkbox"/> Upper 12" <input type="checkbox"/> 13-18" <input type="checkbox"/> Water-Stained Leaves <input type="checkbox"/> Local Soil Survey Data <input type="checkbox"/> FAC-Neutral Test <input type="checkbox"/> Other (Explain in Remarks)
Field Observations: Depth of Surface Water: 0 (in.) Depth to Water in Pit: ≥18 (in.) Depth to Saturated Soil: ≥18 (in.)	
Observations and Remarks: 1. Filamentous or sheet forming algae present? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No 2. Slope: <input checked="" type="checkbox"/> 0-2%; or <input type="checkbox"/> >2% 3. Oxidized rhizospheres: <input type="checkbox"/> new roots only; <input type="checkbox"/> old roots only; <input type="checkbox"/> new and old roots, <input checked="" type="checkbox"/> none 4. Flooding: <input type="checkbox"/> none, flooding not probable; <input checked="" type="checkbox"/> rare, unlikely but possible under unusual weather conditions; <input type="checkbox"/> occasional, occurs on an average of once or less in 2 years; or <input type="checkbox"/> frequent, occurs on an average of more than once in 2 years. 5. Duration: <input checked="" type="checkbox"/> very brief, if <2 days; <input type="checkbox"/> brief, if 2-7 days, or <input type="checkbox"/> long, if >7 days 6. Site ponds water? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	

SOILS

Map Unit Name (Series and Phase): Tidal flats Taxonomy (Subgroup): (filled)		Drainage Class: Permeability: Runoff: Field Observations: Confirm Mapped Type? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No															
Profile Description:																	
Depth (inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottle Abundance/ Contrast	Texture, Concretions, Structures, etc.												
0-18		10YR3/2			sandy clay loam												
Hydric Soil Indicators: <table style="width: 100%; border: none;"> <tr> <td><input type="checkbox"/> Histosol</td> <td><input type="checkbox"/> Concretions</td> </tr> <tr> <td><input type="checkbox"/> Histic Epipedon</td> <td><input type="checkbox"/> High Organic Content in Surface Layer in Sandy Soils</td> </tr> <tr> <td><input type="checkbox"/> Sulfidic Odor</td> <td><input type="checkbox"/> Organic Streaking in Sandy Soils</td> </tr> <tr> <td><input type="checkbox"/> Aquic Moisture Regime</td> <td><input type="checkbox"/> Listed on Local Hydric Soils List</td> </tr> <tr> <td><input type="checkbox"/> Reducing Conditions</td> <td><input type="checkbox"/> Listed on National Hydric Soils List</td> </tr> <tr> <td><input type="checkbox"/> Gleyed or Low-Chroma Colors</td> <td><input type="checkbox"/> Other (Explain in Remarks)</td> </tr> </table>						<input type="checkbox"/> Histosol	<input type="checkbox"/> Concretions	<input type="checkbox"/> Histic Epipedon	<input type="checkbox"/> High Organic Content in Surface Layer in Sandy Soils	<input type="checkbox"/> Sulfidic Odor	<input type="checkbox"/> Organic Streaking in Sandy Soils	<input type="checkbox"/> Aquic Moisture Regime	<input type="checkbox"/> Listed on Local Hydric Soils List	<input type="checkbox"/> Reducing Conditions	<input type="checkbox"/> Listed on National Hydric Soils List	<input type="checkbox"/> Gleyed or Low-Chroma Colors	<input type="checkbox"/> Other (Explain in Remarks)
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<input type="checkbox"/> Reducing Conditions	<input type="checkbox"/> Listed on National Hydric Soils List																
<input type="checkbox"/> Gleyed or Low-Chroma Colors	<input type="checkbox"/> Other (Explain in Remarks)																
Observations and Remarks: 1. Smell: <input type="checkbox"/> Neutral; <input checked="" type="checkbox"/> Slightly fresh; or <input type="checkbox"/> Freshly plowed field smell 2. Site: <input type="checkbox"/> Irrigated; <input checked="" type="checkbox"/> Land leveled; <input type="checkbox"/> Ditch drained; <input type="checkbox"/> Pumped; <input type="checkbox"/> Graded to drain via slope 3. Soils: <input type="checkbox"/> do <input checked="" type="checkbox"/> do not become frequently ponded or saturated for long (>7 days) to very long durations (>30 days) during the growing season																	

WETLAND DETERMINATION

Hydrophytic Vegetation Present? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Wetland Hydrology Present? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Hydric Soils Present? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Is this Sampling Point within a Wetland? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Remarks: 1. Possibly water of the U.S.? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No 2. Possibly exempt from Corps/EPA Regulation? <input type="checkbox"/> Yes <input type="checkbox"/> No (If yes, check item(s) below.) (a) <input type="checkbox"/> Non-tidal drainage and irrigation ditches excavated on dry land (b) <input type="checkbox"/> Artificially irrigated areas which would revert to upland if the irrigation ceased. (c) <input type="checkbox"/> Artificial lakes or ponds created by excavating and/or diking dry land to collect and retain water and which are used exclusively for such purposes as stock watering, irrigation, settling basins, or rice growing. (d) <input type="checkbox"/> Artificial reflecting or swimming pools or other small ornamental bodies of water created by excavating and/or diking dry land to retain water for primarily aesthetic reasons. (e) <input type="checkbox"/> Water-filled depressions created in dry land incidental to construction activity and pits excavated in dry land for the purpose of obtaining fill, sand, or gravel unless and until the construction or excavation operation is abandoned and the resulting body of water meets the definition of waters of the United States (see 33 CFR 328.3(a)).	

Approved by HQUSACE 3/92

Additional Comments/Remarks: **Sample point does not meet all three wetland criteria.**

DATA FORM
ROUTINE ON-SITE DETERMINATION METHOD

Project/Site: Chula Vista Bayfront Applicant/Owner: Port of San Diego Investigator(s): RECON Env. - Jennifer MacAller, Peter Tomsovic	Date: 3/8/05 County: San Diego State: CA
Do Normal Circumstances exist on the site? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Is the site significantly disturbed (Atypical Situation)? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Is the area a potential Problem Area? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No (if needed, explain on reverse or attach separate sheet.)	Community ID: Dist. upland Transect ID: Plot ID: 22

VEGETATION

Dominant Plant Species	Stratum	Indicator	Dominant Plant Species	Stratum	Indicator
1. <i>Unk grass - no seed heads</i>	H		9.		
2.			10. <i>Sub-dominants</i>		
3.			11. <i>Lythrum hyssopifolium</i>	H	FACW
4.			12. <i>Baccharis pilularis</i>	S	NL
5.			13. <i>Chrysanthemum</i>	S	NL
6.			14. <i>10' to Baccharis salicifolia</i>	T	
7.			15.		
8.			16.		
Percent of Dominant Species that are OBL, FACW, or FAC (excluding FAC-) 0%					
Remarks: 1. Assume presence of wetland vegetation? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No 2. Rooted emergent vegetation present? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No					

HYDROLOGY

<input type="checkbox"/> Recorded Data (Describe in Remarks): <input type="checkbox"/> Stream, Lake or Tide Gauge <input type="checkbox"/> Aerial Photographs <input type="checkbox"/> Other <input checked="" type="checkbox"/> No Recorded Data Available	Wetland Hydrology Indicators: Primary Indicators: <input type="checkbox"/> Inundated <input type="checkbox"/> Saturated in: <input type="checkbox"/> Upper 12" <input type="checkbox"/> 13-18" <input type="checkbox"/> Water Marks <input type="checkbox"/> Drift Lines <input type="checkbox"/> Sediment Deposits <input type="checkbox"/> Drainage Patterns in Wetlands Secondary Indicators (2 or more required): <input type="checkbox"/> Oxidized Root Channels in: <input type="checkbox"/> Upper 12" <input type="checkbox"/> 13-18" <input type="checkbox"/> Water-Stained Leaves <input type="checkbox"/> Local Soil Survey Data <input type="checkbox"/> FAC-Neutral Test <input type="checkbox"/> Other (Explain in Remarks)
Field Observations: Depth of Surface Water: 0 (in.) Depth to Water in Pit: ≥18 (in.) Depth to Saturated Soil: ≥18 (in.)	
Observations and Remarks: Ostrocods in inundated area adjacent. Low ponded area near road. 1. Filamentous or sheet forming algae present? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No 2. Slope: <input checked="" type="checkbox"/> 0-2%; or <input type="checkbox"/> >2% 3. Oxidized rhizospheres: <input type="checkbox"/> new roots only; <input type="checkbox"/> old roots only; <input type="checkbox"/> new and old roots, <input checked="" type="checkbox"/> none 4. Flooding: <input type="checkbox"/> none, flooding not probable; <input type="checkbox"/> rare, unlikely but possible under unusual weather conditions; <input checked="" type="checkbox"/> occasional, occurs on an average of once or less in 2 years; or <input type="checkbox"/> frequent, occurs on an average of more than once in 2 years. 5. Duration: <input type="checkbox"/> very brief, if <2 days; <input type="checkbox"/> brief, if 2-7 days, or <input checked="" type="checkbox"/> long, if >7 days 6. Site ponds water? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	

SOILS

Map Unit Name (Series and Phase): Huerhuero loam 2 to 9 percent slopes Taxonomy (Subgroup): Haplic Natrixeralfs		Drainage Class: Moderately well drained Permeability: very slow Runoff: slow to medium Field Observations: Confirm Mapped Type? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No															
Profile Description:																	
Depth (inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottle Abundance/ Contrast	Texture, Concretions, Structures, etc.												
0-18		7.5YR4/3			sandy loam												
Hydric Soil Indicators: <table style="width: 100%; border: none;"> <tr> <td><input type="checkbox"/> Histosol</td> <td><input type="checkbox"/> Concretions</td> </tr> <tr> <td><input type="checkbox"/> Histic Epipedon</td> <td><input type="checkbox"/> High Organic Content in Surface Layer in Sandy Soils</td> </tr> <tr> <td><input type="checkbox"/> Sulfidic Odor</td> <td><input type="checkbox"/> Organic Streaking in Sandy Soils</td> </tr> <tr> <td><input type="checkbox"/> Aquic Moisture Regime</td> <td><input type="checkbox"/> Listed on Local Hydric Soils List</td> </tr> <tr> <td><input type="checkbox"/> Reducing Conditions</td> <td><input type="checkbox"/> Listed on National Hydric Soils List</td> </tr> <tr> <td><input type="checkbox"/> Gleyed or Low-Chroma Colors</td> <td><input type="checkbox"/> Other (Explain in Remarks)</td> </tr> </table>						<input type="checkbox"/> Histosol	<input type="checkbox"/> Concretions	<input type="checkbox"/> Histic Epipedon	<input type="checkbox"/> High Organic Content in Surface Layer in Sandy Soils	<input type="checkbox"/> Sulfidic Odor	<input type="checkbox"/> Organic Streaking in Sandy Soils	<input type="checkbox"/> Aquic Moisture Regime	<input type="checkbox"/> Listed on Local Hydric Soils List	<input type="checkbox"/> Reducing Conditions	<input type="checkbox"/> Listed on National Hydric Soils List	<input type="checkbox"/> Gleyed or Low-Chroma Colors	<input type="checkbox"/> Other (Explain in Remarks)
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<input type="checkbox"/> Gleyed or Low-Chroma Colors	<input type="checkbox"/> Other (Explain in Remarks)																
Observations and Remarks: 1. Smell: <input checked="" type="checkbox"/> Neutral; <input type="checkbox"/> Slightly fresh; or <input type="checkbox"/> Freshly plowed field smell 2. Site: <input type="checkbox"/> Irrigated; <input type="checkbox"/> Land leveled; <input type="checkbox"/> Ditch drained; <input type="checkbox"/> Pumped; <input type="checkbox"/> Graded to drain via slope 3. Soils: <input type="checkbox"/> do <input checked="" type="checkbox"/> do not become frequently ponded or saturated for long (>7 days) to very long durations (>30 days) during the growing season																	

WETLAND DETERMINATION

Hydrophytic Vegetation Present? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Wetland Hydrology Present? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Hydric Soils Present? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Is this Sampling Point within a Wetland? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Remarks: 1. Possibly water of the U.S.? <input type="checkbox"/> Yes <input type="checkbox"/> No 2. Possibly exempt from Corps/EPA Regulation? <input type="checkbox"/> Yes <input type="checkbox"/> No (If yes, check item(s) below.) (a) <input type="checkbox"/> Non-tidal drainage and irrigation ditches excavated on dry land (b) <input type="checkbox"/> Artificially irrigated areas which would revert to upland if the irrigation ceased. (c) <input type="checkbox"/> Artificial lakes or ponds created by excavating and/or diking dry land to collect and retain water and which are used exclusively for such purposes as stock watering, irrigation, settling basins, or rice growing. (d) <input type="checkbox"/> Artificial reflecting or swimming pools or other small ornamental bodies of water created by excavating and/or diking dry land to retain water for primarily aesthetic reasons. (e) <input type="checkbox"/> Water-filled depressions created in dry land incidental to construction activity and pits excavated in dry land for the purpose of obtaining fill, sand, or gravel unless and until the construction or excavation operation is abandoned and the resulting body of water meets the definition of waters of the United States (see 33 CFR 328.3(a)).	

Approved by HQUSACE 3/92

Additional Comments/Remarks: **Sample point does not meet the wetland criteria.**

DATA FORM
ROUTINE ON-SITE DETERMINATION METHOD

Project/Site: Chula Vista Bayfront Applicant/Owner: Port of San Diego Investigator(s): RECON Env. - Jennifer MacAller, Peter Tomsovic	Date: 3/8/05 County: San Diego State: CA
Do Normal Circumstances exist on the site? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Is the site significantly disturbed (Atypical Situation)? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Is the area a potential Problem Area? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No (if needed, explain on reverse or attach separate sheet.)	Community ID: Wetland Transect ID: Plot ID: 23

VEGETATION

Dominant Plant Species	Stratum	Indicator	Dominant Plant Species	Stratum	Indicator
1. <i>Baccharis salicifolia</i>	T	FACW	9.		
2. <i>Lythrum hyssopifolium</i>	H	FACW	10.		
3.			11.		
4.			12.		
5.			13.		
6.			14.		
7.			15.		
8.			16.		

Percent of Dominant Species that are OBL, FACW, or FAC (excluding FAC-) 100%

Remarks:

1. Assume presence of wetland vegetation? Yes No
 2. Rooted emergent vegetation present? Yes No

HYDROLOGY

<input type="checkbox"/> Recorded Data (Describe in Remarks): <input type="checkbox"/> Stream, Lake or Tide Gauge <input type="checkbox"/> Aerial Photographs <input type="checkbox"/> Other <input checked="" type="checkbox"/> No Recorded Data Available	Wetland Hydrology Indicators: Primary Indicators: <input checked="" type="checkbox"/> Inundated <input checked="" type="checkbox"/> Saturated in: <input checked="" type="checkbox"/> Upper 12" <input checked="" type="checkbox"/> 13-18" <input type="checkbox"/> Water Marks <input type="checkbox"/> Drift Lines <input type="checkbox"/> Sediment Deposits <input type="checkbox"/> Drainage Patterns in Wetlands Secondary Indicators (2 or more required): <input type="checkbox"/> Oxidized Root Channels in: <input type="checkbox"/> Upper 12" <input type="checkbox"/> 13-18" <input type="checkbox"/> Water-Stained Leaves <input type="checkbox"/> Local Soil Survey Data <input checked="" type="checkbox"/> FAC-Neutral Test <input type="checkbox"/> Other (Explain in Remarks)
Field Observations: Depth of Surface Water: <u>5</u> (in.) Depth to Water in Pit: <u>0</u> (in.) Depth to Saturated Soil: <u>0</u> (in.)	
Observations and Remarks: Small ponded basin near road. 1. Filamentous or sheet forming algae present? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No 2. Slope: <input checked="" type="checkbox"/> 0-2%; or <input type="checkbox"/> >2% 3. Oxidized rhizospheres: <input type="checkbox"/> new roots only; <input type="checkbox"/> old roots only; <input type="checkbox"/> new and old roots, <input checked="" type="checkbox"/> none 4. Flooding: <input type="checkbox"/> none, flooding not probable; <input type="checkbox"/> rare, unlikely but possible under unusual weather conditions; <input checked="" type="checkbox"/> occasional, occurs on an average of once or less in 2 years; or <input type="checkbox"/> frequent, occurs on an average of more than once in 2 years. 5. Duration: <input type="checkbox"/> very brief, if <2 days; <input type="checkbox"/> brief, if 2-7 days, or <input checked="" type="checkbox"/> long, if >7 days 6. Site ponds water? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	

SOILS

Map Unit Name (Series and Phase): Huerhuero loam 2 to 9 percent slopes Taxonomy (Subgroup): Haplic Natrixeralfs		Drainage Class: Moderately well drained Permeability: very slow Runoff: slow to medium Field Observations: Confirm Mapped Type? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No															
Profile Description:																	
Depth (inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottle Abundance/ Contrast	Texture, Concretions, Structures, etc.												
0-18		7.5YR4/3			sandy loam												
Hydric Soil Indicators: <table border="0" style="width: 100%;"> <tr> <td><input type="checkbox"/> Histosol</td> <td><input type="checkbox"/> Concretions</td> </tr> <tr> <td><input type="checkbox"/> Histic Epipedon</td> <td><input checked="" type="checkbox"/> High Organic Content in Surface Layer in Sandy Soils</td> </tr> <tr> <td><input type="checkbox"/> Sulfidic Odor</td> <td><input type="checkbox"/> Organic Streaking in Sandy Soils</td> </tr> <tr> <td><input type="checkbox"/> Aquic Moisture Regime</td> <td><input type="checkbox"/> Listed on Local Hydric Soils List</td> </tr> <tr> <td><input type="checkbox"/> Reducing Conditions</td> <td><input type="checkbox"/> Listed on National Hydric Soils List</td> </tr> <tr> <td><input type="checkbox"/> Gleyed or Low-Chroma Colors</td> <td><input type="checkbox"/> Other (Explain in Remarks)</td> </tr> </table>						<input type="checkbox"/> Histosol	<input type="checkbox"/> Concretions	<input type="checkbox"/> Histic Epipedon	<input checked="" type="checkbox"/> High Organic Content in Surface Layer in Sandy Soils	<input type="checkbox"/> Sulfidic Odor	<input type="checkbox"/> Organic Streaking in Sandy Soils	<input type="checkbox"/> Aquic Moisture Regime	<input type="checkbox"/> Listed on Local Hydric Soils List	<input type="checkbox"/> Reducing Conditions	<input type="checkbox"/> Listed on National Hydric Soils List	<input type="checkbox"/> Gleyed or Low-Chroma Colors	<input type="checkbox"/> Other (Explain in Remarks)
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<input type="checkbox"/> Reducing Conditions	<input type="checkbox"/> Listed on National Hydric Soils List																
<input type="checkbox"/> Gleyed or Low-Chroma Colors	<input type="checkbox"/> Other (Explain in Remarks)																
Observations and Remarks: Fill soil may not show hydric soil indicators. 1. Smell: <input checked="" type="checkbox"/> Neutral; <input type="checkbox"/> Slightly fresh; or <input type="checkbox"/> Freshly plowed field smell 2. Site: <input type="checkbox"/> Irrigated; <input type="checkbox"/> Land leveled; <input type="checkbox"/> Ditch drained; <input type="checkbox"/> Pumped; <input type="checkbox"/> Graded to drain via slope 3. Soils: <input checked="" type="checkbox"/> do <input type="checkbox"/> do not become frequently ponded or saturated for long (>7 days) to very long durations (>30 days) during the growing season																	

WETLAND DETERMINATION

Hydrophytic Vegetation Present? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Wetland Hydrology Present? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Hydric Soils Present? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Is this Sampling Point within a Wetland? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Remarks: 1. Possibly water of the U.S.? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No 2. Possibly exempt from Corps/EPA Regulation? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No (If yes, check item(s) below.) (a) <input type="checkbox"/> Non-tidal drainage and irrigation ditches excavated on dry land (b) <input type="checkbox"/> Artificially irrigated areas which would revert to upland if the irrigation ceased. (c) <input type="checkbox"/> Artificial lakes or ponds created by excavating and/or diking dry land to collect and retain water and which are used exclusively for such purposes as stock watering, irrigation, settling basins, or rice growing. (d) <input type="checkbox"/> Artificial reflecting or swimming pools or other small ornamental bodies of water created by excavating and/or diking dry land to retain water for primarily aesthetic reasons. (e) <input type="checkbox"/> Water-filled depressions created in dry land incidental to construction activity and pits excavated in dry land for the purpose of obtaining fill, sand, or gravel unless and until the construction or excavation operation is abandoned and the resulting body of water meets the definition of waters of the United States (see 33 CFR 328.3(a)).	

Approved by HQUSACE 3/92

Additional Comments/Remarks: **Isolated wetland near parking lot - may be exempt from Corps jurisdiction. CDFG riparian.**

DATA FORM
ROUTINE ON-SITE DETERMINATION METHOD

Project/Site: Chula Vista Bayfront Applicant/Owner: Port of San Diego Investigator(s): RECON Env. - Jennifer MacAller, Peter Tomsovic	Date: 3/8/05 County: San Diego State: CA
Do Normal Circumstances exist on the site? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Is the site significantly disturbed (Atypical Situation)? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Is the area a potential Problem Area? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No (if needed, explain on reverse or attach separate sheet.)	Community ID: Channel (tidal) Transect ID: Plot ID: 24

VEGETATION

Dominant Plant Species	Stratum	Indicator	Dominant Plant Species	Stratum	Indicator
1. <i>Jaumea carnosa</i>	H	OBL	9.		
2. <i>Salicornia virginica</i>	H	OBL	10.		
3. <i>Limonium californicum</i>	H	OBL	11.		
4. <i>Monanthochloe littoralis</i>	H	OBL	12.		
5.			13.		
6.			14.		
7.			15.		
8.			16.		

Percent of Dominant Species that are OBL, FACW, or FAC (excluding FAC-) 100%

Remarks:

1. Assume presence of wetland vegetation? Yes No
 2. Rooted emergent vegetation present? Yes No

HYDROLOGY

<input type="checkbox"/> Recorded Data (Describe in Remarks): <input type="checkbox"/> Stream, Lake or Tide Gauge <input checked="" type="checkbox"/> Aerial Photographs <input type="checkbox"/> Other <input type="checkbox"/> No Recorded Data Available	Wetland Hydrology Indicators: Primary Indicators: <input type="checkbox"/> Inundated <input checked="" type="checkbox"/> Saturated in: <input checked="" type="checkbox"/> Upper 12" <input checked="" type="checkbox"/> 13-18" <input type="checkbox"/> Water Marks <input checked="" type="checkbox"/> Drift Lines <input type="checkbox"/> Sediment Deposits <input type="checkbox"/> Drainage Patterns in Wetlands Secondary Indicators (2 or more required): <input type="checkbox"/> Oxidized Root Channels in: <input type="checkbox"/> Upper 12" <input type="checkbox"/> 13-18" <input type="checkbox"/> Water-Stained Leaves <input type="checkbox"/> Local Soil Survey Data <input checked="" type="checkbox"/> FAC-Neutral Test <input type="checkbox"/> Other (Explain in Remarks)
Field Observations: Depth of Surface Water: 0 (in.) Depth to Water in Pit: ≥18 (in.) Depth to Saturated Soil: ≥18 (in.)	
Observations and Remarks: Tidally influenced channel- culvert beneath road connects to bay. 1. Filamentous or sheet forming algae present? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No 2. Slope: <input type="checkbox"/> 0-2%; or <input checked="" type="checkbox"/> >2% 3. Oxidized rhizospheres: <input type="checkbox"/> new roots only; <input type="checkbox"/> old roots only; <input type="checkbox"/> new and old roots, <input checked="" type="checkbox"/> none 4. Flooding: <input type="checkbox"/> none, flooding not probable; <input type="checkbox"/> rare, unlikely but possible under unusual weather conditions; <input type="checkbox"/> occasional, occurs on an average of once or less in 2 years; or <input checked="" type="checkbox"/> frequent, occurs on an average of more than once in 2 years. 5. Duration: <input type="checkbox"/> very brief, if <2 days; <input type="checkbox"/> brief, if 2-7 days, or <input checked="" type="checkbox"/> long, if >7 days 6. Site ponds water? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	

SOILS

Map Unit Name (Series and Phase): Not Identified on soil maps Taxonomy (Subgroup):		Drainage Class: Permeability: Runoff: Field Observations: Confirm Mapped Type? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No					
Profile Description:							
Depth (inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottle Abundance/ Contrast	Texture, Concretions, Structures, etc.		
0-18		10YR3/3			sand		
Hydric Soil Indicators: <table style="width: 100%; border: none;"> <tr> <td style="width: 50%; vertical-align: top;"> <input type="checkbox"/> Histosol <input type="checkbox"/> Histic Epipedon <input type="checkbox"/> Sulfidic Odor <input type="checkbox"/> Aquic Moisture Regime <input type="checkbox"/> Reducing Conditions <input type="checkbox"/> Gleyed or Low-Chroma Colors </td> <td style="width: 50%; vertical-align: top;"> <input type="checkbox"/> Concretions <input type="checkbox"/> High Organic Content in Surface Layer in Sandy Soils <input checked="" type="checkbox"/> Organic Streaking in Sandy Soils <input type="checkbox"/> Listed on Local Hydric Soils List <input type="checkbox"/> Listed on National Hydric Soils List <input type="checkbox"/> Other (Explain in Remarks) </td> </tr> </table>						<input type="checkbox"/> Histosol <input type="checkbox"/> Histic Epipedon <input type="checkbox"/> Sulfidic Odor <input type="checkbox"/> Aquic Moisture Regime <input type="checkbox"/> Reducing Conditions <input type="checkbox"/> Gleyed or Low-Chroma Colors	<input type="checkbox"/> Concretions <input type="checkbox"/> High Organic Content in Surface Layer in Sandy Soils <input checked="" type="checkbox"/> Organic Streaking in Sandy Soils <input type="checkbox"/> Listed on Local Hydric Soils List <input type="checkbox"/> Listed on National Hydric Soils List <input type="checkbox"/> Other (Explain in Remarks)
<input type="checkbox"/> Histosol <input type="checkbox"/> Histic Epipedon <input type="checkbox"/> Sulfidic Odor <input type="checkbox"/> Aquic Moisture Regime <input type="checkbox"/> Reducing Conditions <input type="checkbox"/> Gleyed or Low-Chroma Colors	<input type="checkbox"/> Concretions <input type="checkbox"/> High Organic Content in Surface Layer in Sandy Soils <input checked="" type="checkbox"/> Organic Streaking in Sandy Soils <input type="checkbox"/> Listed on Local Hydric Soils List <input type="checkbox"/> Listed on National Hydric Soils List <input type="checkbox"/> Other (Explain in Remarks)						
Observations and Remarks: 1. Smell: <input type="checkbox"/> Neutral; <input checked="" type="checkbox"/> Slightly fresh; or <input type="checkbox"/> Freshly plowed field smell 2. Site: <input type="checkbox"/> Irrigated; <input type="checkbox"/> Land leveled; <input checked="" type="checkbox"/> Ditch drained; <input type="checkbox"/> Pumped; <input type="checkbox"/> Graded to drain via slope 3. Soils: <input checked="" type="checkbox"/> do <input type="checkbox"/> do not become frequently ponded or saturated for long (>7 days) to very long durations (>30 days) during the growing season							

WETLAND DETERMINATION

Hydrophytic Vegetation Present? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Wetland Hydrology Present? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Hydric Soils Present? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Is this Sampling Point within a Wetland? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Remarks: 1. Possibly water of the U.S.? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No 2. Possibly exempt from Corps/EPA Regulation? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No (If yes, check item(s) below.) (a) <input type="checkbox"/> Non-tidal drainage and irrigation ditches excavated on dry land (b) <input type="checkbox"/> Artificially irrigated areas which would revert to upland if the irrigation ceased. (c) <input type="checkbox"/> Artificial lakes or ponds created by excavating and/or diking dry land to collect and retain water and which are used exclusively for such purposes as stock watering, irrigation, settling basins, or rice growing. (d) <input type="checkbox"/> Artificial reflecting or swimming pools or other small ornamental bodies of water created by excavating and/or diking dry land to retain water for primarily aesthetic reasons. (e) <input type="checkbox"/> Water-filled depressions created in dry land incidental to construction activity and pits excavated in dry land for the purpose of obtaining fill, sand, or gravel unless and until the construction or excavation operation is abandoned and the resulting body of water meets the definition of waters of the United States (see 33 CFR 328.3(a)).	

Approved by HQUSACE 3/92

Additional Comments/Remarks: **Tidally influenced channel. Culvert beneath road to the west connects to bay. Sample point below debris drift line. Low tide during survey.**

DATA FORM
ROUTINE ON-SITE DETERMINATION METHOD

Project/Site: Chula Vista Bayfront Applicant/Owner: Port of San Diego Investigator(s): RECON Env. - Jennifer MacAller, Peter Tomsovic	Date: 3/8/05 County: San Diego State: CA
Do Normal Circumstances exist on the site? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Is the site significantly disturbed (Atypical Situation)? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Is the area a potential Problem Area? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No (if needed, explain on reverse or attach separate sheet.)	Community ID: Channel bank Transect ID: Plot ID: 25

VEGETATION

Dominant Plant Species	Stratum	Indicator	Dominant Plant Species	Stratum	Indicator
1. <i>Batis maritima</i>	H	OBL	9.		
2. <i>Salsola tragus</i>	H	NL	10. <i>Sub-dominant</i>		
3. <i>Mesembryanthemum nodiflorum</i>	H	NL	11. <i>Avena sp.</i>	S	NL
4.			12. <i>Limonium californicum</i>	H	NL
5.			13. <i>Monanthochloe littoralis</i>	H	OBL
6.			14.		
7.			15.		
8.			16.		

Percent of Dominant Species that are OBL, FACW, or FAC (excluding FAC-) 33%

Remarks:

1. Assume presence of wetland vegetation? Yes No

2. Rooted emergent vegetation present? Yes No

HYDROLOGY

<input type="checkbox"/> Recorded Data (Describe in Remarks): <input type="checkbox"/> Stream, Lake or Tide Gauge <input checked="" type="checkbox"/> Aerial Photographs <input type="checkbox"/> Other <input type="checkbox"/> No Recorded Data Available	Wetland Hydrology Indicators: Primary Indicators: <input type="checkbox"/> Inundated <input type="checkbox"/> Saturated in: <input type="checkbox"/> Upper 12" <input type="checkbox"/> 13-18" <input type="checkbox"/> Water Marks <input type="checkbox"/> Drift Lines <input type="checkbox"/> Sediment Deposits <input type="checkbox"/> Drainage Patterns in Wetlands Secondary Indicators (2 or more required): <input type="checkbox"/> Oxidized Root Channels in: <input type="checkbox"/> Upper 12" <input type="checkbox"/> 13-18" <input type="checkbox"/> Water-Stained Leaves <input type="checkbox"/> Local Soil Survey Data <input type="checkbox"/> FAC-Neutral Test <input type="checkbox"/> Other (Explain in Remarks)
Field Observations: Depth of Surface Water: 0 (in.) Depth to Water in Pit: ≥18 (in.) Depth to Saturated Soil: ≥18 (in.)	
Observations and Remarks: Tidally influenced channel- culvert beneath road connects to bay. Sample point is located above OHWM. 1. Filamentous or sheet forming algae present? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No 2. Slope: <input type="checkbox"/> 0-2%; or <input checked="" type="checkbox"/> >2% 3. Oxidized rhizospheres: <input type="checkbox"/> new roots only; <input type="checkbox"/> old roots only; <input type="checkbox"/> new and old roots, <input checked="" type="checkbox"/> none 4. Flooding: <input type="checkbox"/> none, flooding not probable; <input checked="" type="checkbox"/> rare, unlikely but possible under unusual weather conditions; <input type="checkbox"/> occasional, occurs on an average of once or less in 2 years; or <input type="checkbox"/> frequent, occurs on an average of more than once in 2 years. 5. Duration: <input checked="" type="checkbox"/> very brief, if <2 days; <input type="checkbox"/> brief, if 2-7 days, or <input type="checkbox"/> long, if >7 days 6. Site ponds water? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	

SOILS

Map Unit Name (Series and Phase): Not Identified on soil maps Taxonomy (Subgroup):		Drainage Class: Permeability: Runoff: Field Observations: Confirm Mapped Type? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No															
Profile Description:																	
Depth (inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottle Abundance/ Contrast	Texture, Concretions, Structures, etc.												
0-18		2.5Y5/3			sand												
Hydric Soil Indicators: <table style="width:100%; border:none;"> <tr> <td><input type="checkbox"/> Histosol</td> <td><input type="checkbox"/> Concretions</td> </tr> <tr> <td><input type="checkbox"/> Histic Epipedon</td> <td><input type="checkbox"/> High Organic Content in Surface Layer in Sandy Soils</td> </tr> <tr> <td><input type="checkbox"/> Sulfidic Odor</td> <td><input type="checkbox"/> Organic Streaking in Sandy Soils</td> </tr> <tr> <td><input type="checkbox"/> Aquic Moisture Regime</td> <td><input type="checkbox"/> Listed on Local Hydric Soils List</td> </tr> <tr> <td><input type="checkbox"/> Reducing Conditions</td> <td><input type="checkbox"/> Listed on National Hydric Soils List</td> </tr> <tr> <td><input type="checkbox"/> Gleyed or Low-Chroma Colors</td> <td><input type="checkbox"/> Other (Explain in Remarks)</td> </tr> </table>						<input type="checkbox"/> Histosol	<input type="checkbox"/> Concretions	<input type="checkbox"/> Histic Epipedon	<input type="checkbox"/> High Organic Content in Surface Layer in Sandy Soils	<input type="checkbox"/> Sulfidic Odor	<input type="checkbox"/> Organic Streaking in Sandy Soils	<input type="checkbox"/> Aquic Moisture Regime	<input type="checkbox"/> Listed on Local Hydric Soils List	<input type="checkbox"/> Reducing Conditions	<input type="checkbox"/> Listed on National Hydric Soils List	<input type="checkbox"/> Gleyed or Low-Chroma Colors	<input type="checkbox"/> Other (Explain in Remarks)
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<input type="checkbox"/> Reducing Conditions	<input type="checkbox"/> Listed on National Hydric Soils List																
<input type="checkbox"/> Gleyed or Low-Chroma Colors	<input type="checkbox"/> Other (Explain in Remarks)																
Observations and Remarks: 1. Smell: <input checked="" type="checkbox"/> Neutral; <input type="checkbox"/> Slightly fresh; or <input type="checkbox"/> Freshly plowed field smell 2. Site: <input type="checkbox"/> Irrigated; <input type="checkbox"/> Land leveled; <input checked="" type="checkbox"/> Ditch drained; <input type="checkbox"/> Pumped; <input type="checkbox"/> Graded to drain via slope 3. Soils: <input type="checkbox"/> do <input checked="" type="checkbox"/> do not become frequently ponded or saturated for long (>7 days) to very long durations (>30 days) during the growing season																	

WETLAND DETERMINATION

Hydrophytic Vegetation Present? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Wetland Hydrology Present? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Hydric Soils Present? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Is this Sampling Point within a Wetland? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Remarks: 1. Possibly water of the U.S.? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No 2. Possibly exempt from Corps/EPA Regulation? <input type="checkbox"/> Yes <input type="checkbox"/> No (If yes, check item(s) below.) (a) <input type="checkbox"/> Non-tidal drainage and irrigation ditches excavated on dry land (b) <input type="checkbox"/> Artificially irrigated areas which would revert to upland if the irrigation ceased. (c) <input type="checkbox"/> Artificial lakes or ponds created by excavating and/or diking dry land to collect and retain water and which are used exclusively for such purposes as stock watering, irrigation, settling basins, or rice growing. (d) <input type="checkbox"/> Artificial reflecting or swimming pools or other small ornamental bodies of water created by excavating and/or diking dry land to retain water for primarily aesthetic reasons. (e) <input type="checkbox"/> Water-filled depressions created in dry land incidental to construction activity and pits excavated in dry land for the purpose of obtaining fill, sand, or gravel unless and until the construction or excavation operation is abandoned and the resulting body of water meets the definition of waters of the United States (see 33 CFR 328.3(a)).	

Approved by HQUSACE 3/92

Additional Comments/Remarks: **Tidally influenced channel. Sample point is near top of bank above OHWM.**

DATA FORM
ROUTINE ON-SITE DETERMINATION METHOD

Project/Site: Chula Vista Bayfront Applicant/Owner: Port of San Diego Investigator(s): RECON Env. - Jennifer MacAller, Peter Tomsovic	Date: 3/8/05 County: San Diego State: CA
Do Normal Circumstances exist on the site? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Is the site significantly disturbed (Atypical Situation)? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Is the area a potential Problem Area? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No (if needed, explain on reverse or attach separate sheet.)	Community ID: Dist. swale Transect ID: Plot ID: 26

VEGETATION

Dominant Plant Species	Stratum	Indicator	Dominant Plant Species	Stratum	Indicator
1. <i>Melilotus indicus</i>	H	FAC	9.		
2. <i>Avena sp.</i>	H	NL	10. <i>Sub-dominant</i>		
3.			11. <i>Bromus madritensis</i>	H	NL
4.			12. <i>Raphanus sativus</i>	H	NL
5.			13.		
6.			14.		
7.			15.		
8.			16.		

Percent of Dominant Species that are OBL, FACW, or FAC (excluding FAC-) 50%

Remarks:

1. Assume presence of wetland vegetation? Yes No

2. Rooted emergent vegetation present? Yes No

HYDROLOGY

<input checked="" type="checkbox"/> Recorded Data (Describe in Remarks): <input type="checkbox"/> Stream, Lake or Tide Gauge <input checked="" type="checkbox"/> Aerial Photographs <input type="checkbox"/> Other <input type="checkbox"/> No Recorded Data Available	Wetland Hydrology Indicators: Primary Indicators: <input type="checkbox"/> Inundated <input type="checkbox"/> Saturated in: <input type="checkbox"/> Upper 12" <input type="checkbox"/> 13-18" <input type="checkbox"/> Water Marks <input type="checkbox"/> Drift Lines <input type="checkbox"/> Sediment Deposits <input type="checkbox"/> Drainage Patterns in Wetlands Secondary Indicators (2 or more required): <input type="checkbox"/> Oxidized Root Channels in: <input type="checkbox"/> Upper 12" <input type="checkbox"/> 13-18" <input type="checkbox"/> Water-Stained Leaves <input type="checkbox"/> Local Soil Survey Data <input type="checkbox"/> FAC-Neutral Test <input type="checkbox"/> Other (Explain in Remarks)
Field Observations: Depth of Surface Water: 0 (in.) Depth to Water in Pit: ≥18 (in.) Depth to Saturated Soil: ≥18 (in.)	
<p><i>Observations and Remarks: Area was likely part of the channel but has been filled in. Slight swale around sample point but is no longer part of channel.</i></p> <p>1. Filamentous or sheet forming algae present? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No</p> <p>2. Slope: <input checked="" type="checkbox"/> 0-2%; or <input type="checkbox"/> >2%</p> <p>3. Oxidized rhizospheres: <input type="checkbox"/> new roots only; <input type="checkbox"/> old roots only; <input type="checkbox"/> new and old roots, <input checked="" type="checkbox"/> none</p> <p>4. Flooding: <input type="checkbox"/> none, flooding not probable; <input checked="" type="checkbox"/> rare, unlikely but possible under unusual weather conditions; <input type="checkbox"/> occasional, occurs on an average of once or less in 2 years; or <input type="checkbox"/> frequent, occurs on an average of more than once in 2 years.</p> <p>5. Duration: <input checked="" type="checkbox"/> very brief, if <2 days; <input type="checkbox"/> brief, if 2-7 days, or <input type="checkbox"/> long, if >7 days</p> <p>6. Site ponds water? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No</p>	

SOILS

Map Unit Name (Series and Phase): Not Identified on soil maps		Drainage Class: Permeability: Runoff: Field Observations: Confirm Mapped Type? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No															
Taxonomy (Subgroup):																	
Profile Description:																	
Depth (inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottle Abundance/ Contrast	Texture, Concretions, Structures, etc.												
0-18		10YR3/3			sand												
Hydric Soil Indicators: <table style="width: 100%; border: none;"> <tr> <td style="width: 50%; padding: 2px;"><input type="checkbox"/> Histosol</td> <td style="width: 50%; padding: 2px;"><input type="checkbox"/> Concretions</td> </tr> <tr> <td style="padding: 2px;"><input type="checkbox"/> Histic Epipedon</td> <td style="padding: 2px;"><input type="checkbox"/> High Organic Content in Surface Layer in Sandy Soils</td> </tr> <tr> <td style="padding: 2px;"><input type="checkbox"/> Sulfidic Odor</td> <td style="padding: 2px;"><input type="checkbox"/> Organic Streaking in Sandy Soils</td> </tr> <tr> <td style="padding: 2px;"><input type="checkbox"/> Aquic Moisture Regime</td> <td style="padding: 2px;"><input type="checkbox"/> Listed on Local Hydric Soils List</td> </tr> <tr> <td style="padding: 2px;"><input type="checkbox"/> Reducing Conditions</td> <td style="padding: 2px;"><input type="checkbox"/> Listed on National Hydric Soils List</td> </tr> <tr> <td style="padding: 2px;"><input type="checkbox"/> Gleyed or Low-Chroma Colors</td> <td style="padding: 2px;"><input type="checkbox"/> Other (Explain in Remarks)</td> </tr> </table>						<input type="checkbox"/> Histosol	<input type="checkbox"/> Concretions	<input type="checkbox"/> Histic Epipedon	<input type="checkbox"/> High Organic Content in Surface Layer in Sandy Soils	<input type="checkbox"/> Sulfidic Odor	<input type="checkbox"/> Organic Streaking in Sandy Soils	<input type="checkbox"/> Aquic Moisture Regime	<input type="checkbox"/> Listed on Local Hydric Soils List	<input type="checkbox"/> Reducing Conditions	<input type="checkbox"/> Listed on National Hydric Soils List	<input type="checkbox"/> Gleyed or Low-Chroma Colors	<input type="checkbox"/> Other (Explain in Remarks)
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<input type="checkbox"/> Gleyed or Low-Chroma Colors	<input type="checkbox"/> Other (Explain in Remarks)																
Observations and Remarks: <ol style="list-style-type: none"> 1. Smell: <input checked="" type="checkbox"/> Neutral; <input type="checkbox"/> Slightly fresh; or <input type="checkbox"/> Freshly plowed field smell 2. Site: <input type="checkbox"/> Irrigated; <input checked="" type="checkbox"/> Land leveled; <input type="checkbox"/> Ditch drained; <input type="checkbox"/> Pumped; <input type="checkbox"/> Graded to drain via slope 3. Soils: <input type="checkbox"/> do <input checked="" type="checkbox"/> do not become frequently ponded or saturated for long (>7 days) to very long durations (>30 days) during the growing season 																	

WETLAND DETERMINATION

Hydrophytic Vegetation Present? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Is this Sampling Point within a Wetland? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Wetland Hydrology Present? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
Hydric Soils Present? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
Remarks: <ol style="list-style-type: none"> 1. Possibly water of the U.S.? <input type="checkbox"/> Yes <input type="checkbox"/> No 2. Possibly exempt from Corps/EPA Regulation? <input type="checkbox"/> Yes <input type="checkbox"/> No (If yes, check item(s) below.) <ol style="list-style-type: none"> (a) <input type="checkbox"/> Non-tidal drainage and irrigation ditches excavated on dry land (b) <input type="checkbox"/> Artificially irrigated areas which would revert to upland if the irrigation ceased. (c) <input type="checkbox"/> Artificial lakes or ponds created by excavating and/or diking dry land to collect and retain water and which are used exclusively for such purposes as stock watering, irrigation, settling basins, or rice growing. (d) <input type="checkbox"/> Artificial reflecting or swimming pools or other small ornamental bodies of water created by excavating and/or diking dry land to retain water for primarily aesthetic reasons. (e) <input type="checkbox"/> Water-filled depressions created in dry land incidental to construction activity and pits excavated in dry land for the purpose of obtaining fill, sand, or gravel unless and until the construction or excavation operation is abandoned and the resulting body of water meets the definition of waters of the United States (see 33 CFR 328.3(a)). 	

Approved by HQUSACE 3/92

Additional Comments/Remarks: **Sample point does not meet any of the three wetland criteria.**

**DATA FORM
ROUTINE ON-SITE DETERMINATION METHOD**

Project/Site: Chula Vista Bayfront Applicant/Owner: Port of San Diego Investigator(s): RECON Env. - Jennifer MacAller, Peter Tomsovic	Date: 12/14/05 County: San Diego State: CA
Do Normal Circumstances exist on the site? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Is the site significantly disturbed (Atypical Situation)? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Is the area a potential Problem Area? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No (if needed, explain on reverse or attach separate sheet.)	Community ID: Seasonal pond/tank site Transect ID: Plot ID: 27

VEGETATION

Dominant Plant Species	Stratum	Indicator	Dominant Plant Species	Stratum	Indicator
1. <i>unvegetated</i>			9.		
2.			10.		
3.			11. <i>others:</i>		
4.			12. <i>Typha sp.</i>		
5.			13.		
6.			14.		
7.			15.		
8.			16.		

Percent of Dominant Species that are OBL, FACW, or FAC (excluding FAC-) 0 %

Remarks: **Small patch (5x10feet) of cattail occurs adjacent to site. Depth and duration of ponding water precludes presence of any vegetation. Area was observed deeply ponded in March 2005 and later with small areas of ponding in December 2005.**

1. Assume presence of wetland vegetation? Yes No
 2. Rooted emergent vegetation present? Yes No

HYDROLOGY

<input checked="" type="checkbox"/> Recorded Data (Describe in Remarks): <input type="checkbox"/> Stream, Lake or Tide Gauge <input checked="" type="checkbox"/> Aerial Photographs <input type="checkbox"/> Other <input type="checkbox"/> No Recorded Data Available	Wetland Hydrology Indicators: Primary Indicators: <input type="checkbox"/> Inundated <input checked="" type="checkbox"/> Saturated in: <input checked="" type="checkbox"/> Upper 12" <input checked="" type="checkbox"/> 13-18" <input type="checkbox"/> Water Marks <input type="checkbox"/> Drift Lines <input type="checkbox"/> Sediment Deposits <input type="checkbox"/> Drainage Patterns in Wetlands Secondary Indicators (2 or more required): <input type="checkbox"/> Oxidized Root Channels in: <input type="checkbox"/> Upper 12" <input type="checkbox"/> 13-18" <input type="checkbox"/> Water-Stained Leaves <input type="checkbox"/> Local Soil Survey Data <input type="checkbox"/> FAC-Neutral Test <input checked="" type="checkbox"/> Other (Explain in Remarks)
Field Observations: Depth of Surface Water: <u>n/a</u> (in.) Depth to Water in Pit: <u>>18</u> (in.) Depth to Saturated Soil: <u>>18</u> (in.)	
<p><i>Observations and Remarks: Old tank site. Observed deeply filled with water in March 2005. Small areas of ponding remained in December 2005.</i></p> 1. Filamentous or sheet forming algae present? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No 2. Slope: <input checked="" type="checkbox"/> 0-2%; or <input type="checkbox"/> >2% 3. Oxidized rhizospheres: <input type="checkbox"/> new roots only; <input type="checkbox"/> old roots only; <input type="checkbox"/> new and old roots, <input checked="" type="checkbox"/> none 4. Flooding: <input type="checkbox"/> none, flooding not probable; <input type="checkbox"/> rare, unlikely but possible under unusual weather conditions; <input type="checkbox"/> occasional, occurs on an average of once or less in 2 years; or <input checked="" type="checkbox"/> frequent, occurs on an average of more than once in 2 years. 5. Duration: <input type="checkbox"/> very brief, if <2 days; <input type="checkbox"/> brief, if 2-7 days, or <input checked="" type="checkbox"/> long, if >7 days	

6. *Site ponds water?* *Yes* *No*

SOILS

Map Unit Name (Series and Phase): Tidal Flats (Tf) Taxonomy (Subgroup):		Drainage Class: Permeability: Runoff: Field Observations: Confirm Mapped Type? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No															
Profile Description:																	
Depth (inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottle Abundance/ Contrast	Texture, Concretions, Structures, etc.												
0-18		10 YR 4/3	2.5 Y 3/1	common/distinct	Fill soil												
Hydric Soil Indicators: <table style="width:100%; border:none;"> <tr> <td><input type="checkbox"/> Histosol</td> <td><input type="checkbox"/> Concretions</td> </tr> <tr> <td><input type="checkbox"/> Histic Epipedon</td> <td><input type="checkbox"/> High Organic Content in Surface Layer in Sandy Soils</td> </tr> <tr> <td><input type="checkbox"/> Sulfidic Odor</td> <td><input type="checkbox"/> Organic Streaking in Sandy Soils</td> </tr> <tr> <td><input type="checkbox"/> Aquic Moisture Regime</td> <td><input type="checkbox"/> Listed on Local Hydric Soils List</td> </tr> <tr> <td><input checked="" type="checkbox"/> Reducing Conditions</td> <td><input type="checkbox"/> Listed on National Hydric Soils List</td> </tr> <tr> <td><input checked="" type="checkbox"/> Gleyed or Low-Chroma Colors</td> <td><input type="checkbox"/> Other (Explain in Remarks)</td> </tr> </table>						<input type="checkbox"/> Histosol	<input type="checkbox"/> Concretions	<input type="checkbox"/> Histic Epipedon	<input type="checkbox"/> High Organic Content in Surface Layer in Sandy Soils	<input type="checkbox"/> Sulfidic Odor	<input type="checkbox"/> Organic Streaking in Sandy Soils	<input type="checkbox"/> Aquic Moisture Regime	<input type="checkbox"/> Listed on Local Hydric Soils List	<input checked="" type="checkbox"/> Reducing Conditions	<input type="checkbox"/> Listed on National Hydric Soils List	<input checked="" type="checkbox"/> Gleyed or Low-Chroma Colors	<input type="checkbox"/> Other (Explain in Remarks)
<input type="checkbox"/> Histosol	<input type="checkbox"/> Concretions																
<input type="checkbox"/> Histic Epipedon	<input type="checkbox"/> High Organic Content in Surface Layer in Sandy Soils																
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<input checked="" type="checkbox"/> Reducing Conditions	<input type="checkbox"/> Listed on National Hydric Soils List																
<input checked="" type="checkbox"/> Gleyed or Low-Chroma Colors	<input type="checkbox"/> Other (Explain in Remarks)																
Observations and Remarks: 1. Smell: <input checked="" type="checkbox"/> Neutral; <input type="checkbox"/> Slightly fresh; or <input type="checkbox"/> Freshly plowed field smell 2. Site: <input type="checkbox"/> Irrigated; <input type="checkbox"/> Land leveled; <input type="checkbox"/> Ditch drained; <input type="checkbox"/> Pumped; <input type="checkbox"/> Graded to drain via slope 3. Soils: <input checked="" type="checkbox"/> do <input type="checkbox"/> do not become frequently ponded or saturated for long (>7 days) to very long durations (>30 days) during the growing season																	

WETLAND DETERMINATION

Hydrophytic Vegetation Present? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Wetland Hydrology Present? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Hydric Soils Present? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Is this Sampling Point within a Wetland? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Remarks: 1. Possibly water of the U.S.? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No 2. Possibly exempt from Corps/EPA Regulation? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <i>(If yes, check item(s) below.)</i> (a) <input type="checkbox"/> Non-tidal drainage and irrigation ditches excavated on dry land (b) <input type="checkbox"/> Artificially irrigated areas which would revert to upland if the irrigation ceased. (c) <input type="checkbox"/> Artificial lakes or ponds created by excavating and/or diking dry land to collect and retain water and which are used exclusively for such purposes as stock watering, irrigation, settling basins, or rice growing. (d) <input type="checkbox"/> Artificial reflecting or swimming pools or other small ornamental bodies of water created by excavating and/or diking dry land to retain water for primarily aesthetic reasons. (e) <input type="checkbox"/> Water-filled depressions created in dry land incidental to construction activity and pits excavated in dry land for the purpose of obtaining fill, sand, or gravel unless and until the construction or excavation operation is abandoned and the resulting body of water meets the definition of waters of the United States (see 33 CFR 328.3(a)).	

Approved by HQUSACE 3/92

Additional Comments/Remarks: **Old tank site is a depressed area that now fills with water by runoff from surrounding areas and direct precipitation. Abundance of rainfall during 2004-2005 rainy season filled depressed area with water. Little vegetation present in December 2005. Patch of cattails becoming established nearby sample point.**

DATA FORM
ROUTINE ON-SITE DETERMINATION METHOD

Project/Site: Chula Vista Bayfront Applicant/Owner: Port of San Diego Investigator(s): RECON Env. - Jennifer MacAller, Peter Tomsovic	Date: 12/14/05 County: San Diego State: CA
Do Normal Circumstances exist on the site? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Is the site significantly disturbed (Atypical Situation)? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Is the area a potential Problem Area? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No (if needed, explain on reverse or attach separate sheet.)	Community ID: Seasonal pond Transect ID: Plot ID: 28

VEGETATION

Dominant Plant Species	Stratum	Indicator	Dominant Plant Species	Stratum	Indicator
1. <i>Rumex crispus</i>	H	FACW-	9.		
2. <i>Lolium perenne</i>	H	FAC*	10. <i>others present:</i>		
3. <i>Hordeum murinum</i>	H	UPL	11. <i>Heliotropium curvassicum</i>		
4.			12. <i>Lythrum hyssopifolium</i>		
5.			13.		
6.			14.		
7.			15.		
8.			16.		

Percent of Dominant Species that are OBL, FACW, or FAC (excluding FAC-) 66%

Remarks:

1. Assume presence of wetland vegetation? Yes No
 2. Rooted emergent vegetation present? Yes No

HYDROLOGY

<input type="checkbox"/> Recorded Data (Describe in Remarks): <input type="checkbox"/> Stream, Lake or Tide Gauge <input type="checkbox"/> Aerial Photographs <input type="checkbox"/> Other <input checked="" type="checkbox"/> No Recorded Data Available	Wetland Hydrology Indicators: Primary Indicators: <input checked="" type="checkbox"/> Inundated <input checked="" type="checkbox"/> Saturated in: <input checked="" type="checkbox"/> Upper 12" <input checked="" type="checkbox"/> 13-18" <input type="checkbox"/> Water Marks <input type="checkbox"/> Drift Lines <input type="checkbox"/> Sediment Deposits <input type="checkbox"/> Drainage Patterns in Wetlands Secondary Indicators (2 or more required): <input checked="" type="checkbox"/> Oxidized Root Channels in: <input checked="" type="checkbox"/> Upper 12" <input checked="" type="checkbox"/> 13-18" <input type="checkbox"/> Water-Stained Leaves <input type="checkbox"/> Local Soil Survey Data <input type="checkbox"/> FAC-Neutral Test <input type="checkbox"/> Other (Explain in Remarks)
Field Observations: Depth of Surface Water: <u>3</u> (in.) Depth to Water in Pit: <u>0</u> (in.) Depth to Saturated Soil: <u>0</u> (in.)	
Observations and Remarks: 1. Filamentous or sheet forming algae present? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No 2. Slope: <input checked="" type="checkbox"/> 0-2%; or <input type="checkbox"/> >2% 3. Oxidized rhizospheres: <input type="checkbox"/> new roots only; <input type="checkbox"/> old roots only; <input checked="" type="checkbox"/> new and old roots, <input type="checkbox"/> none 4. Flooding: <input type="checkbox"/> none, flooding not probable; <input type="checkbox"/> rare, unlikely but possible under unusual weather conditions; <input type="checkbox"/> occasional, occurs on an average of once or less in 2 years; or <input checked="" type="checkbox"/> frequent, occurs on an average of more than once in 2 years. 5. Duration: <input type="checkbox"/> very brief, if <2 days; <input type="checkbox"/> brief, if 2-7 days, or <input checked="" type="checkbox"/> long, if >7 days 6. Site ponds water? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	

SOILS

Map Unit Name (Series and Phase): None Listed (Filled pad)		Drainage Class: Permeability: Runoff: Field Observations: Confirm Mapped Type? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No															
Taxonomy (Subgroup):																	
Profile Description:																	
Depth (inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottle Abundance/ Contrast	Texture, Concretions, Structures, etc.												
0-18		10YR 4/2	10 YR 3/1	common/distinct	sandy loam												
Hydric Soil Indicators: <table style="width:100%; border:none;"> <tr> <td><input type="checkbox"/> Histosol</td> <td><input type="checkbox"/> Concretions</td> </tr> <tr> <td><input type="checkbox"/> Histic Epipedon</td> <td><input type="checkbox"/> High Organic Content in Surface Layer in Sandy Soils</td> </tr> <tr> <td><input type="checkbox"/> Sulfidic Odor</td> <td><input type="checkbox"/> Organic Streaking in Sandy Soils</td> </tr> <tr> <td><input type="checkbox"/> Aquic Moisture Regime</td> <td><input type="checkbox"/> Listed on Local Hydric Soils List</td> </tr> <tr> <td><input checked="" type="checkbox"/> Reducing Conditions</td> <td><input type="checkbox"/> Listed on National Hydric Soils List</td> </tr> <tr> <td><input type="checkbox"/> Gleyed or Low-Chroma Colors</td> <td><input type="checkbox"/> Other (Explain in Remarks)</td> </tr> </table>						<input type="checkbox"/> Histosol	<input type="checkbox"/> Concretions	<input type="checkbox"/> Histic Epipedon	<input type="checkbox"/> High Organic Content in Surface Layer in Sandy Soils	<input type="checkbox"/> Sulfidic Odor	<input type="checkbox"/> Organic Streaking in Sandy Soils	<input type="checkbox"/> Aquic Moisture Regime	<input type="checkbox"/> Listed on Local Hydric Soils List	<input checked="" type="checkbox"/> Reducing Conditions	<input type="checkbox"/> Listed on National Hydric Soils List	<input type="checkbox"/> Gleyed or Low-Chroma Colors	<input type="checkbox"/> Other (Explain in Remarks)
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<input type="checkbox"/> Gleyed or Low-Chroma Colors	<input type="checkbox"/> Other (Explain in Remarks)																
Observations and Remarks: 1. Smell: <input type="checkbox"/> Neutral; <input type="checkbox"/> Slightly fresh; or <input type="checkbox"/> Freshly plowed field smell 2. Site: <input type="checkbox"/> Irrigated; <input type="checkbox"/> Land leveled; <input type="checkbox"/> Ditch drained; <input type="checkbox"/> Pumped; <input type="checkbox"/> Graded to drain via slope 3. Soils: <input checked="" type="checkbox"/> do <input type="checkbox"/> do not become frequently ponded or saturated for long (>7 days) to very long durations (>30 days) during the growing season																	

WETLAND DETERMINATION

Hydrophytic Vegetation Present? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Wetland Hydrology Present? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Hydric Soils Present? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Is this Sampling Point within a Wetland? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Remarks: 1. Possibly water of the U.S.? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No 2. Possibly exempt from Corps/EPA Regulation? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No (If yes, check item(s) below.) (a) <input type="checkbox"/> Non-tidal drainage and irrigation ditches excavated on dry land (b) <input type="checkbox"/> Artificially irrigated areas which would revert to upland if the irrigation ceased. (c) <input type="checkbox"/> Artificial lakes or ponds created by excavating and/or diking dry land to collect and retain water and which are used exclusively for such purposes as stock watering, irrigation, settling basins, or rice growing. (d) <input type="checkbox"/> Artificial reflecting or swimming pools or other small ornamental bodies of water created by excavating and/or diking dry land to retain water for primarily aesthetic reasons. (e) <input type="checkbox"/> Water-filled depressions created in dry land incidental to construction activity and pits excavated in dry land for the purpose of obtaining fill, sand, or gravel unless and until the construction or excavation operation is abandoned and the resulting body of water meets the definition of waters of the United States (see 33 CFR 328.3(a)).	

Approved by HQUSACE 3/92

Additional Comments/Remarks: **May be exempt from Corps jurisdiction - appears to be isolated. CDFG jurisdictional.**

**DATA FORM
ROUTINE ON-SITE DETERMINATION METHOD**

Project/Site: Chula Vista Bayfront Applicant/Owner: Port of San Diego Investigator(s): RECON Env. - Jennifer MacAller, Peter Tomsovic	Date: 12/14/05 County: San Diego State: CA
Do Normal Circumstances exist on the site? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Is the site significantly disturbed (Atypical Situation)? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Is the area a potential Problem Area? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No (if needed, explain on reverse or attach separate sheet.)	Community ID: Seasonal pond Transect ID: Plot ID: 29

VEGETATION

Dominant Plant Species	Stratum	Indicator	Dominant Plant Species	Stratum	Indicator
1. <i>Typha latifolia</i>	H	OBL	9.		
2.			10.		
3.			11.		
4.			12.		
5.			13.		
6.			14.		
7.			15.		
8.			16.		

Percent of Dominant Species that are OBL, FACW, or FAC (excluding FAC-) 100 %

Remarks: **Patch of cattails at lowest point in bermed pond.**

1. Assume presence of wetland vegetation? Yes No
 2. Rooted emergent vegetation present? Yes No

HYDROLOGY

<input checked="" type="checkbox"/> Recorded Data (Describe in Remarks): <input type="checkbox"/> Stream, Lake or Tide Gauge <input checked="" type="checkbox"/> Aerial Photographs <input type="checkbox"/> Other <input type="checkbox"/> No Recorded Data Available	Wetland Hydrology Indicators: Primary Indicators: <input type="checkbox"/> Inundated <input type="checkbox"/> Saturated in: <input type="checkbox"/> Upper 12" <input type="checkbox"/> 13-18" <input type="checkbox"/> Water Marks <input type="checkbox"/> Drift Lines <input type="checkbox"/> Sediment Deposits <input type="checkbox"/> Drainage Patterns in Wetlands Secondary Indicators (2 or more required): <input checked="" type="checkbox"/> Oxidized Root Channels in: <input checked="" type="checkbox"/> Upper 12" <input checked="" type="checkbox"/> 13-18" <input type="checkbox"/> Water-Stained Leaves <input type="checkbox"/> Local Soil Survey Data <input checked="" type="checkbox"/> FAC-Neutral Test <input checked="" type="checkbox"/> Other (Explain in Remarks)
Field Observations: Depth of Surface Water: <u>n/a</u> (in.) Depth to Water in Pit: <u>>18</u> (in.) Depth to Saturated Soil: <u>>18</u> (in.)	
Observations and Remarks: Aerials from 1996, 2000, 2001, 2003, and 2004 examined for ponding. 1. Filamentous or sheet forming algae present? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No 2. Slope: <input checked="" type="checkbox"/> 0-2%; or <input type="checkbox"/> >2% 3. Oxidized rhizospheres: <input type="checkbox"/> new roots only; <input type="checkbox"/> old roots only; <input checked="" type="checkbox"/> new and old roots, <input type="checkbox"/> none 4. Flooding: <input type="checkbox"/> none, flooding not probable; <input type="checkbox"/> rare, unlikely but possible under unusual weather conditions; <input type="checkbox"/> occasional, occurs on an average of once or less in 2 years; or <input checked="" type="checkbox"/> frequent, occurs on an average of more than once in 2 years. 5. Duration: <input type="checkbox"/> very brief, if <2 days; <input type="checkbox"/> brief, if 2-7 days, or <input checked="" type="checkbox"/> long, if >7 days 6. Site ponds water? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	

SOILS

Map Unit Name (Series and Phase): Tidal Flats (Tf) Taxonomy (Subgroup):		Drainage Class: Permeability: Runoff: Field Observations: Confirm Mapped Type? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No															
Profile Description:																	
Depth (inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottle Abundance/ Contrast	Texture, Concretions, Structures, etc.												
0-18		10 YR 4/3			Fill soil												
Hydric Soil Indicators: <table style="width:100%; border:none;"> <tr> <td><input type="checkbox"/> Histosol</td> <td><input type="checkbox"/> Concretions</td> </tr> <tr> <td><input type="checkbox"/> Histic Epipedon</td> <td><input type="checkbox"/> High Organic Content in Surface Layer in Sandy Soils</td> </tr> <tr> <td><input type="checkbox"/> Sulfidic Odor</td> <td><input type="checkbox"/> Organic Streaking in Sandy Soils</td> </tr> <tr> <td><input type="checkbox"/> Aquic Moisture Regime</td> <td><input type="checkbox"/> Listed on Local Hydric Soils List</td> </tr> <tr> <td><input type="checkbox"/> Reducing Conditions</td> <td><input type="checkbox"/> Listed on National Hydric Soils List</td> </tr> <tr> <td><input type="checkbox"/> Gleyed or Low-Chroma Colors</td> <td><input type="checkbox"/> Other (Explain in Remarks)</td> </tr> </table>						<input type="checkbox"/> Histosol	<input type="checkbox"/> Concretions	<input type="checkbox"/> Histic Epipedon	<input type="checkbox"/> High Organic Content in Surface Layer in Sandy Soils	<input type="checkbox"/> Sulfidic Odor	<input type="checkbox"/> Organic Streaking in Sandy Soils	<input type="checkbox"/> Aquic Moisture Regime	<input type="checkbox"/> Listed on Local Hydric Soils List	<input type="checkbox"/> Reducing Conditions	<input type="checkbox"/> Listed on National Hydric Soils List	<input type="checkbox"/> Gleyed or Low-Chroma Colors	<input type="checkbox"/> Other (Explain in Remarks)
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<input type="checkbox"/> Reducing Conditions	<input type="checkbox"/> Listed on National Hydric Soils List																
<input type="checkbox"/> Gleyed or Low-Chroma Colors	<input type="checkbox"/> Other (Explain in Remarks)																
Observations and Remarks: Hydric soils would not likely be apparent in fill soil - Atypical situation. 1. Smell: <input checked="" type="checkbox"/> Neutral; <input type="checkbox"/> Slightly fresh; or <input type="checkbox"/> Freshly plowed field smell 2. Site: <input type="checkbox"/> Irrigated; <input type="checkbox"/> Land leveled; <input type="checkbox"/> Ditch drained; <input type="checkbox"/> Pumped; <input type="checkbox"/> Graded to drain via slope 3. Soils: <input checked="" type="checkbox"/> do <input type="checkbox"/> do not become frequently ponded or saturated for long (>7 days) to very long durations (>30 days) during the growing season																	

WETLAND DETERMINATION

Hydrophytic Vegetation Present? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Wetland Hydrology Present? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Hydric Soils Present? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Is this Sampling Point within a Wetland? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Remarks: 1. Possibly water of the U.S.? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No 2. Possibly exempt from Corps/EPA Regulation? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No (If yes, check item(s) below.) (a) <input type="checkbox"/> Non-tidal drainage and irrigation ditches excavated on dry land (b) <input type="checkbox"/> Artificially irrigated areas which would revert to upland if the irrigation ceased. (c) <input type="checkbox"/> Artificial lakes or ponds created by excavating and/or diking dry land to collect and retain water and which are used exclusively for such purposes as stock watering, irrigation, settling basins, or rice growing. (d) <input type="checkbox"/> Artificial reflecting or swimming pools or other small ornamental bodies of water created by excavating and/or diking dry land to retain water for primarily aesthetic reasons. (e) <input type="checkbox"/> Water-filled depressions created in dry land incidental to construction activity and pits excavated in dry land for the purpose of obtaining fill, sand, or gravel unless and until the construction or excavation operation is abandoned and the resulting body of water meets the definition of waters of the United States (see 33 CFR 328.3(a)).	

Approved by HQUSACE 3/92

Additional Comments/Remarks: **Isolated pond created by construction of a berm on fill soil. - created for storm water control ??? Pond appears isolated and may be exempt from Corps jurisdiction. CDFG jurisdictional.**

DATA FORM
ROUTINE ON-SITE DETERMINATION METHOD

Project/Site: Chula Vista Bayfront Applicant/Owner: Port of San Diego Investigator(s): RECON Env. - Jennifer MacAller, Peter Tomsovic	Date: 12/14/05 County: San Diego State: CA
Do Normal Circumstances exist on the site? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Is the site significantly disturbed (Atypical Situation)? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Is the area a potential Problem Area? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No (if needed, explain on reverse or attach separate sheet.)	Community ID: Dis. Riparian Transect ID: Plot ID: 30

VEGETATION

Dominant Plant Species	Stratum	Indicator	Dominant Plant Species	Stratum	Indicator
1. <i>Cortaderia sp.</i>	S	NL (FAC)	9.		
2. <i>Washingtonia sp.</i>	T	FAC	10.		
3.			11.		
4.			12.		
5.			13.		
6.			14.		
7.			15.		
8.			16.		

Percent of Dominant Species that are OBL, FACW, or FAC (excluding FAC-) 100%

Remarks:

1. Assume presence of wetland vegetation? Yes No
 2. Rooted emergent vegetation present? Yes No

HYDROLOGY

<input type="checkbox"/> Recorded Data (Describe in Remarks): <input type="checkbox"/> Stream, Lake or Tide Gauge <input type="checkbox"/> Aerial Photographs <input type="checkbox"/> Other <input checked="" type="checkbox"/> No Recorded Data Available	Wetland Hydrology Indicators: Primary Indicators: <input type="checkbox"/> Inundated <input type="checkbox"/> Saturated in: <input type="checkbox"/> Upper 12" <input type="checkbox"/> 13-18" <input type="checkbox"/> Water Marks <input type="checkbox"/> Drift Lines <input type="checkbox"/> Sediment Deposits <input type="checkbox"/> Drainage Patterns in Wetlands Secondary Indicators (2 or more required): <input type="checkbox"/> Oxidized Root Channels in: <input type="checkbox"/> Upper 12" <input type="checkbox"/> 13-18" <input type="checkbox"/> Water-Stained Leaves <input type="checkbox"/> Local Soil Survey Data <input type="checkbox"/> FAC-Neutral Test <input checked="" type="checkbox"/> Other (Explain in Remarks)
Field Observations: Depth of Surface Water: <u>N/A</u> (in.) Depth to Water in Pit: <u>≥18</u> (in.) Depth to Saturated Soil: <u>≥18</u> (in.)	
<p>Observations and Remarks: Pipe outfall near train tracks empties into this swale. No cut bank/bed or OHWM.</p> <p>1. Filamentous or sheet forming algae present? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No 2. Slope: <input checked="" type="checkbox"/> 0-2%; or <input type="checkbox"/> >2% 3. Oxidized rhizospheres: <input type="checkbox"/> new roots only; <input type="checkbox"/> old roots only; <input type="checkbox"/> new and old roots, <input checked="" type="checkbox"/> none 4. Flooding: <input type="checkbox"/> none, flooding not probable; <input checked="" type="checkbox"/> rare, unlikely but possible under unusual weather conditions; <input type="checkbox"/> occasional, occurs on an average of once or less in 2 years; or <input type="checkbox"/> frequent, occurs on an average of more than once in 2 years. 5. Duration: <input type="checkbox"/> very brief, if <2 days; <input checked="" type="checkbox"/> brief, if 2-7 days, or <input type="checkbox"/> long, if >7 days 6. Site ponds water? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No</p>	

SOILS

Map Unit Name (Series and Phase): Huerhuero loam - 2 to 9 percent slopes Taxonomy (Subgroup): Haplic Natrixeralfs		Drainage Class: Moderately well drained Permeability: Very slow Runoff: slow to medium Field Observations: Confirm Mapped Type? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No															
Profile Description:																	
Depth (inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottle Abundance/ Contrast	Texture, Concretions, Structures, etc.												
0-18		7.5 YR 4/3			hard packed soil												
Hydric Soil Indicators: <table style="width: 100%; border: none;"> <tr> <td><input type="checkbox"/> Histosol</td> <td><input type="checkbox"/> Concretions</td> </tr> <tr> <td><input type="checkbox"/> Histic Epipedon</td> <td><input type="checkbox"/> High Organic Content in Surface Layer in Sandy Soils</td> </tr> <tr> <td><input type="checkbox"/> Sulfidic Odor</td> <td><input type="checkbox"/> Organic Streaking in Sandy Soils</td> </tr> <tr> <td><input type="checkbox"/> Aquic Moisture Regime</td> <td><input type="checkbox"/> Listed on Local Hydric Soils List</td> </tr> <tr> <td><input type="checkbox"/> Reducing Conditions</td> <td><input type="checkbox"/> Listed on National Hydric Soils List</td> </tr> <tr> <td><input type="checkbox"/> Gleyed or Low-Chroma Colors</td> <td><input type="checkbox"/> Other (Explain in Remarks)</td> </tr> </table>						<input type="checkbox"/> Histosol	<input type="checkbox"/> Concretions	<input type="checkbox"/> Histic Epipedon	<input type="checkbox"/> High Organic Content in Surface Layer in Sandy Soils	<input type="checkbox"/> Sulfidic Odor	<input type="checkbox"/> Organic Streaking in Sandy Soils	<input type="checkbox"/> Aquic Moisture Regime	<input type="checkbox"/> Listed on Local Hydric Soils List	<input type="checkbox"/> Reducing Conditions	<input type="checkbox"/> Listed on National Hydric Soils List	<input type="checkbox"/> Gleyed or Low-Chroma Colors	<input type="checkbox"/> Other (Explain in Remarks)
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<input type="checkbox"/> Gleyed or Low-Chroma Colors	<input type="checkbox"/> Other (Explain in Remarks)																
Observations and Remarks: 1. Smell: <input checked="" type="checkbox"/> Neutral; <input type="checkbox"/> Slightly fresh; or <input type="checkbox"/> Freshly plowed field smell 2. Site: <input type="checkbox"/> Irrigated; <input type="checkbox"/> Land leveled; <input type="checkbox"/> Ditch drained; <input type="checkbox"/> Pumped; <input type="checkbox"/> Graded to drain via slope 3. Soils: <input type="checkbox"/> do <input checked="" type="checkbox"/> do not become frequently ponded or saturated for long (>7 days) to very long durations (>30 days) during the growing season																	

WETLAND DETERMINATION

Hydrophytic Vegetation Present? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Wetland Hydrology Present? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Hydric Soils Present? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Is this Sampling Point within a Wetland? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Remarks: 1. Possibly water of the U.S.? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No 2. Possibly exempt from Corps/EPA Regulation? <input type="checkbox"/> Yes <input type="checkbox"/> No (If yes, check item(s) below.) (a) <input type="checkbox"/> Non-tidal drainage and irrigation ditches excavated on dry land (b) <input type="checkbox"/> Artificially irrigated areas which would revert to upland if the irrigation ceased. (c) <input type="checkbox"/> Artificial lakes or ponds created by excavating and/or diking dry land to collect and retain water and which are used exclusively for such purposes as stock watering, irrigation, settling basins, or rice growing. (d) <input type="checkbox"/> Artificial reflecting or swimming pools or other small ornamental bodies of water created by excavating and/or diking dry land to retain water for primarily aesthetic reasons. (e) <input type="checkbox"/> Water-filled depressions created in dry land incidental to construction activity and pits excavated in dry land for the purpose of obtaining fill, sand, or gravel unless and until the construction or excavation operation is abandoned and the resulting body of water meets the definition of waters of the United States (see 33 CFR 328.3(a)).	

Approved by HQUSACE 3/92

Additional Comments/Remarks: **Sample point does not meet any of the three wetland criteria. Site is a CDFG disturbed riparian habitat.**