JURISDICTIONAL WETLAND DELINEATION REPORT FOR WESTERN SALT POND 20 IMPERIAL BEACH, CALIFORNIA

Prepared for:

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TABLE OF CONTENTS

EXECUTIVE SUMMARY	1
INTRODUCTION	5
DIDDOSE	5
SITE HISTORY	
AGENCY IURISDICTIONS OVER WETLANDS AND WATERWAYS	6
U.S. Army Corns of Engineers Jurisdiction	
California Department of Fish and Game Jurisdiction	8
California Coastal Commission	9
Wetlands	9
Environmentally Sensitive Habitat Areas (ESHA)	9
SITE LOCATION	
GENERAL PHYSIOGRAPHY	
METHODS	14
WETLAND FIELD INDICATORS	
Vegetation	
Soils	
Hydrology	
Rainfall Frequency Analysis Historic Photograph Review	
RESULTS AND DISCUSSION	
HISTORIC REVIEW OF POND 20 CONDITIONS	17
1900-1910 Fra	18
1928 Aerial Photograph	
1945 Aerial Photograph	
1953 Aerial Photograph	
1960s Aerial Photographs	
1970s Aerial Photographs	
1980s Aerial Photographs	
1990s Aerial Photographs	
Analysis of Historical Photos and Uses	
RAINFALL AND HYDROLOGIC ANALYSIS	
DETERMINATION OF THE DISTRIBUTION OF WATERS OF THE U.S	
Federal Wetlands (ACOE)	24
Other Waters of the U.S. (ACOE)	27
Coastal Act Wetlands (CCC)	
Streambeds (CDFG)	
INDIVIDUAL AGENCY JURISDICTIONS AS REGULATED WATERBODIES	
ENVIRONMENTAL SENSITIVE HABITAT AREAS	
LITERATURE CITED	

LIST OF TABLES

TABLE 1. SUMMARY OF THE SURVEY DATES, TIMES, CONDITIONS, AND STAFF
TABLE 2. SUMMARY OF RECENT RAINFALL RECORD AND STATISTICS FOR SAN DIEGO (1987-2007).*
TABLE 3. ACRES OF JURISDICTIONAL WATERCOURSES BY REGULATORY AGENCY. 28
TABLE 4. ACRES OF HABITATS COMPRISING THE JURISDICTIONAL WATERS

LIST OF FIGURES

FIGURE 1. VICINITY MAP11
FIGURE 2. LOCAL SETTING MAP12
FIGURE 3. ANNUAL PRECIPITATION LEVELS BY WATER-YEAR (OCTSEPT.) FOR SAN DIEGO.
FIGURE 4. PROBABILITY OF EXCEEDING RAINFALL LEVELS BASED ON ANNUAL RAINFALL TOTALS (1851-2007)
FIGURE 5. RETURN PERIOD FOR ANNUAL RAINFALL LEVELS BASED ON RAINFALL TOTALS FOR THE PERIOD 1851-2007
FIGURE 6. WETLAND AND WATERCOURSE JURISDICTIONAL LIMITS
FIGURE 7. HABITATS WITHIN WETLAND AND WATERCOURSE JURISDICTIONAL LIMITS26

LIST OF APPENDICES

APPENDIX 1. WETLAND DATA FORMS

APPENDIX 2. WETLAND PHOTO POINTS

APPENDIX 3. RAINFALL HISTORY AND RETURN FREQUENCY

APPENDIX 4. RECENT AERIAL PHOTOGRAPHS OF THE STUDY AREA

JURISDICTIONAL WETLAND DELINEATION FOR POND 20 **IMPERIAL BEACH, CALIFORNIA**

Merkel & Associates, Inc. August 2008

EXECUTIVE SUMMARY

Merkel & Associates, Inc. has completed a jurisdictional determination and wetland delineation of San Diego Unified Port District (Port) owned properties at the south end of San Diego Bay. The site lies south of the Otay River channel, north of Palm Avenue, east of 13th Street, and west of Saturn Boulevard in Imperial Beach (Figure ES-1). The delineation site is dominated by the southern end of a former brine concentration pond, Pond 20, of the Western Salt South Bay Saltworks. In addition to remnant features of Pond 20, the study area also includes tidal and non-tidal drainage features along Nestor Creek to the east and an unnamed ditch to the Otay River to the west of Pond 20. The site is wholly with the Coastal Zone.

Western Salt Company and its predecessors formerly utilized the area for commercial salt harvesting dating back to the 1800's. Over the past century, various internal berms have been constructed, repaired, and removed by operational changes and flooding. These changes have resulted in changing topographic conditions that make a continued discussion of distinct pond cells worthwhile in the context of jurisdiction under federal and state wetland regulatory programs. The Pond 20 site is defined by internal dikes that include three smaller pond cells (herein termed Ponds 20A, 20B, and 20C). Areas involved in the present delineation are portions of Pond 20A and 20B.

The western portion of Pond 20A may have historically supported middle to high salt marsh habitat in the 1800s, prior to its conversion near the turn of the last century for salt production. Historic aerial photographs of the area in the 1940s show some vestigial salt marsh south of Pond 20A immediately



Figure ES-1. Study Area Locator Map

south of Palm Avenue in areas that have since been filled. The eastern portion of Pond 20A, immediately north of an off-site mobile home park, includes an area that retains long-ago isolated braided stream patterns associated with the historic mouth of Nestor Creek. These are not considered jurisdictional due to the historic diversion of Nestor Creek to the north and the lack of any recent evidence of ponding in these elevated locations. Pond 20A was last regularly used as an evaporator pond in the 1940s with a failed subsequent effort in the 1960s to reintegrate the pond into the evaporator process of the salt works.

Pond 20B encompasses portions of a sandy outflow alluvial fan laid down during the 1916 flooding by the Otay River when Savage Dam failed below Lower Otay Reservoir. This portion of the pond is somewhat higher than the elevations within Pond 20A. Pond 20B is still surrounded by linear bands of standing water at the inner base of the dike. These low areas are excavated channels from which dike fill material was taken to reconstruct the dikes after the 1916 floods. Pond 20B has ceased to be used for salt pond operations since at least 1944. All subsequent photographs show no evidence of submersion over the broad interior area. This location is presently cloaked in a poorly developed, limited diversity Diegan Coastal Sage Scrub.

A third relatively small area located north of the study area, Pond 20C, has been separated from Pond 20B by berms for most of the last century. Like Pond 20B, this area is defined by a limited amount of non-wetland waters located at the base of constructed dikes. This area was not investigated during the present delineation as it is not within Port properties.

This present delineation is the third delineation performed on the site during this decade. An initial delineation was performed in Pond 20 in March 2000 (Merkel & Associates 2000). At the request of the San Diego Unified Port District (Port) an additional wetland delineation was completed in April and May 2003 over a slightly modified study area (Merkel & Associates 2003). Wetland delineations were conducted in accordance with the 1987 U.S. Army Corps of Engineers' (Corps) Wetland Delineation Manual (Environmental Laboratory 1987) and in accordance with state agency (Coastal Commission and California Department of Fish & Game) jurisdictional standards. Where wetlands were not identified, additional jurisdictional non-wetland waters were mapped using physical evidence of high water conditions as well as a thorough review of inundation history.

None of the jurisdictional waters delineated are substantively affected by recent rulings by the federal Supreme Court on *Solid Waste Agency of Northern Cook County v. Army Corps of Engineers*, (531 U. S. 159) (SWANCC) (2001); *Rapanos v. United States*, (547 U.S. 715) (2006); and *Carabell v. United States Army Corps of Engineers* (04-1384) consolidated with Rapanos's for arguments before the Supreme Court (2006). However, due to atypical situations associated with the prolonged history of salt evaporator pond uses, soil and vegetation conditions within Pond 20 have been substantively and permanently altered. For this reason, regulatory agency staff members were consulted regarding the delineation approach being undertaken and regulatory assertions in comparable environments. These included discussions between Keith Merkel and Mark Durham and Jae Chung of the Corps' Los Angeles District, Regulatory Branch, and John Dixon, and Jonna Engle of the California Coastal Commission. Based on the inability to reliably employ soil and vegetation indicators within the highly saline environment, the delineation within Pond 20 relies substantively on an analysis of inundation frequency based on rainfall records and aerial interpretation, combined with field evidence of site conditions.

The jurisdictional boundaries have been determined and mapped based on an analysis of data accumulated under the present and recent past delineations (2000 and 2003). Field data collected during 2000 and 2003 are in close agreement with the results of the present delineation and were considered to be complementary to the present analytical efforts. Jurisdictional waterways are mapped for three different agencies: Army Corps of Engineers, California Coastal Commission, and California Department of Fish & Game (Figure ES-2).



- Merkel & Associates, Inc.

Wetlands were determined to exist along both Nestor Creek and the unnamed drainage ditch located along the outer edges of Pond 20. These drainages fall under the regulatory authority of the Army Corps of Engineers, California Coastal Commission, and California Department of Fish & Game. The State Water Resource Control Board operating through the Regional Water Quality Control Board – San Diego Region, has state water quality certification authority under the federal Clean Water Act regulatory authority.

Waters within Pond 20 are principally the result of long-term storm water ponding due to low permeability soils and high groundwater tables that limit drainage from the abandoned salt evaporator pond. While the pond receives water from direct rainfall, it also receives some amount of street run-off from a portion of the urbanized Palm Avenue areas of Imperial Beach. A single storm drain downspout extends from Palm Avenue down the slope to the enclosed Pond 20 basin. No federally regulated wetland habitat was located within Pond 20. However, jurisdictional non-wetland waters of the U.S. are found within the diked boundaries of the pond. Areas considered wetlands under the Coastal Act are also found within Pond 20. Most of this area is situated within the southerly and westerly portions of Pond 20A. No areas regulated by the Department of Fish & Game occur within Pond 20.

Wetland and regulated non-wetland waterways found within the study area are mapped in Figure ES-2 and quantified as follows:

	ASSESSOR PARCEL NUMBER					
JURISDICTION	61602008	61602012	61602108	62102004	62102008	TOTAL
ACOE, CCC, CDFG	0.05			0.03		0.08
ACOE, CCC	6.08	3.11	2.16	2.10	0.22	13.67
CCC	0.18					0.18
TOTAL	6.31	3.11	2.16	2.13	0.22	13.92

Acres of jurisdictional watercourses by regulatory agency.

AGENCY TOTAL	61602008	61602012	61602108	62102004	62102008	TOTAL
ACOE	6.13	3.11	2.16	2.13	0.22	13.75
CCC	6.31	3.11	2.16	2.13	0.22	13.92
CDFG	0.05			0.03		0.08

Acres of habitats comprising the jurisdictional waters.

-	Ĭ	ASSESSOR PARCEL NUMBER					
HABITATS	61602008	61602012	61602108	62102004	62102008	TOTAL	
Coastal Salt Marsh	1.39		0.03	0.16		1.58	
Freshwater Marsh/Dist.	0.05			0.03		0.08	
Salt Flats/Pond	4.68	3.11	2.13	1.94	0.22	12.07	
Salt Panne	0.19					0.19	
TOTAL	6.31	3.11	2.16	2.13	0.22	13.92	

INTRODUCTION

PURPOSE

In March 2000, Merkel & Associates, Inc. (M&A) performed a jurisdictional determination and wetland delineation for the Western Salt Pond 20 site, at the request of Ninyo & Moore working under contract to the San Diego Unified Port District (Port). The Pond 20 study area encompasses approximately 92 acres of land. The purpose of this investigation was to determine the extent of jurisdictional waters of the U.S. including wetlands and non-wetland waters regulated under section 404 of the Clean Water Act. A prior delineation found that Pond 20 was not jurisdictional pursuant to section 10 of the Rivers and Harbors Act (RHA) and section 404 of the Clean Water Act (CWA) (Dudek 1997). The Army Corps of Engineers (ACOE) reviewed this determination and concurred with the determination that Pond 20 is not within ACOE section 10 RHA jurisdiction, but disagreed with the conclusions that the site lacked section 404 CWA jurisdiction (ACOE, LA District, Durham, February 22, 2000 letter to Eileen Maher). The ACOE cited physical evidence of flooding and ponding, occurrence of hydrophytic vegetation, and use by migratory waterfowl as reasons for believing that portions of the site may be defined as waters of the U.S. pursuant to 33 CFR 328.1. The 2000 wetland delineation was completed to comply with the Corps request for an updated delineation of the site.

In April and May 2003, M&A completed an update of the previous 2000 wetland delineation at the request of the Port. The purpose of this update was to determine if additional wetlands were located on-site following annual winter rains in 2003 (Merkel & Associates 2003). An additional goal was to ensure that the wetland delineation met the requirements of the California Coastal Commission (CCC), and to determine whether any portions of the site could be considered Environmentally Sensitive Habitat Areas (ESHA).

For the present delineation, the regulatory jurisdiction over wetland and aquatic resources was evaluated for the ACOE, CCC, and California Department of Fish & Game (CDFG). The present delineation revisits the jurisdictional determination within Port owned lands comprising portions of Pond 20 and adjacent lands to the west and east of the pond. This investigation considered data from prior delineations, new field sampling and boundary mapping, application of the new Interim Arid West supplement to the ACOE federal wetland delineation methods, inundation frequency analyses based on annual rainfall accumulation data and aerial photograph interpretation, and the effects of recent Supreme Court decisions regarding federal regulatory jurisdiction over isolated waters.

SITE HISTORY

Several different resources were reviewed to research the inundation and use history of Pond 20:

- A 1928 aerial photo series at the San Diego County Department of Planning and Land Use;
- Historical magazine articles from the turn of the 19th century; as well as newspaper clippings regarding the Salt Works, located at the City of San Diego's main downtown library;
- Discussions with Gene Mullenix, Operations Manager for South Bay Salt Works for many years;
- Aerial Fotobank's archive of aerial photographs that cover the site during numerous years spanning the era from 1945 to 1996;
- U.S. Geological Survey Ortho-photographs from December 1996;
- Dudek & Associates August 1997 wetland delineation for Magnesium Chloride Ponds and Pond 20 reporting October 1996 survey data, and;

• Digital orthorectified photographs from April 1998, October 1998, 2000, February 2001, November 2003, 2005, February 2006 and February 2007 flown by a number of different agencies and aerial photographic companies.

The Western Salt Company has maintained an ongoing salt evaporation and extraction operation that has been in almost continuous operation on San Diego Bay since the Civil War. The Western Salt operations on southernmost San Diego Bay extend at least back into the first decade of the 1900s when approximately 1,000 tons of salt per year were being extracted from an area of the Bay that included Pond 20. The company was purchased by Graham Babcock, who expanded operations over the next few years until the plant produced approximately 5,000 tons of salt per year by 1910. According to Mr. Gene Mullenix, the Operations Manager of South Bay Salt Works, the only significant disruption to the form of the system occurred in 1916, when Savage Dam broke releasing Lower Otay Lake down the Otay River. The flood washed away the community of Otay as well as destroying dikes through much of the salt works and depositing substantial sediment in various ponds including the central core of Pond 20. Restoration work was undertaken and operations were reestablished soon thereafter. Western Salt was purchased by the H. G. Fenton Company. Fenton continued to expand the salt harvesting facilities until about 1957.

The Salt Works presently include 36 evaporation ponds with varying states of water level and salinity. Generally there are four categories of ponds (primary, secondary, pickling, and crystalizers). Typically three feet of standing water occurs in each pond, and the evaporation process is approximately 12-18 months (Dudek 1997). Pond 20 has been removed from production use for over 30 years due to economic and logistical constraints. The relatively high elevation of the pond floor and isolation of Pond 20 on the south side of the Otay River made it commercially infeasible to continue to utilize this pond as a cell in the evaporation process due to problems and costs of siphoning increasingly saline brine from pond to pond. During the 1960s, Western Salt attempted to re-incorporate Pond 20 as part of the Salt Works using pumps, but economic inefficiency and technical problems resulted in an abandonment of this effort.

Pond 20 is isolated from tributary fresh or saltwater surface input and experiences occasional storm runoff from the internal pond basin and a roadway surface drain from Palm Avenue. Seasonally water levels in the pond fluctuate significantly and waters are strongly saline due both to the pond's history as a salt concentrator and the continued closed system evaporative processes occurring in the pond today. Years of drought and heavy rainfall influence the levels of standing water in the pond and the rates of fluctuation of water surface levels. At present, limited standing water is found along the lower-lying "channels" that parallel the dike and generally below a nearly complete salt crust. These deeper channels are believed to be borrow areas for the reconstruction and repair of the pond containment dikes. These channels also historically enhanced water collection for pumped transfers within the salt pond system.

AGENCY JURISDICTIONS OVER WETLANDS AND WATERWAYS

Deposition of dredged or fill materials into wetlands and jurisdictional waters is regulated under Section 404 of the Clean Water Act. The California Department of Fish and Game regulates modifications to lakes and streambeds under Sections 1602 of the California Fish & Game Code. The California Coastal Commission (CCC) regulates activities that would impact wetlands occurring throughout the coastal zone under the California Coastal Act. The defining jurisdictional limits of each of these entities over wetlands and aquatic features are further outlined below.

U.S. Army Corps of Engineers Jurisdiction

Under Section 404 of the Clean Water Act, the U.S. Army Corps of Engineers has regulatory authority over the discharge of dredged or fill materials into the waters of the United States (1344 USC). The term "waters of the United States" is defined in 33 CFR Part 328(a) and includes: (1) all navigable waters (including all waters subject to the ebb and flow of the tide); (2) all interstate waters and wetlands; (3) all other waters such as intrastate lakes, rivers, streams, (including intermittent streams), mudflats, wetlands, sloughs, prairie potholes, wet meadows, playa lakes, or natural ponds, the use, degradation or destruction of which could affect interstate or foreign commerce; (4) all impoundments of water mentioned above; (5) all tributaries to waters mentioned above; (6) the territorial seas; and, (7) all wetlands adjacent to waters mentioned above.

Wetlands are defined at 33 CFR 328.3(b) as "those areas that are inundated or saturated by surface or ground water at a frequency and duration sufficient to support ... a prevalence of vegetation typically adapted for life in saturated soil conditions." To be considered a jurisdictional wetland under the ACOE, all three parameters (hydrophytic vegetation, hydric soils, and hydrology) must be met.

In the absence of wetlands, the limits of ACOE jurisdiction in non-tidal waters, such as intermittent streams, extend to the ordinary high water mark (OHWM) which is defined at 33 CFR 328.3(e) as:

... that line on the shore established by the fluctuation of water and indicated by physical characteristics such as clear, natural line impressed on the bank, shelving, changes in the character of soil, destruction of terrestrial vegetation, the presence of litter and debris, or other appropriate means that consider the characteristics of the surrounding areas.

In a letter from the Corps dated February 22, 2000, the Corps clarified its position on Pond 20. This letter noted that Pond 20 is not subject to Section 10 of the Rivers and Harbors Act (RHA) of 1899. This determination was based upon the historic meander line, "as presented on a reproduction of an 1870 U.S. Land Office map, entitled Fractional Township NO. 18 South, Range 2 West, San Bernardino Meridian, prepared by the Bureau of Land Management (BLM). The meander (or mean high water, MHW) line is plotted by survey datum points from 1869 by the BLM. This exhibit illustrated that the subject property in its unobstructed, natural state was located above MHW and is not defined as navigable waters, per 33 C.F.R. 329.1." The same letter requested that a new survey be undertaken to address an additional issue of whether portions of the site were subject to Section 404 of the Clean Water Act (CWA). Standing water was noted in September 1996 during a site visit by Corps staff, and migratory waterfowl were observed within the boundaries of the Pond. The Corps did not concur with the findings of the previous determination (Dudek 1997) that there were no lands subject to Section 404 of the CWA, and requested that a new wetland delineation be completed.

Subsequent to the Corps letter, the U.S. Supreme Court narrowed the historic reading of jurisdiction under 33CFR 328(a)(3) through its decision on the case of *Solid Waste Agency of Northern Cook County (SWANCC) v. U.S. Army Corps of Engineers* (January 2001). The Supreme Court ruled that the Corps' use of the "migratory bird rule" to extend jurisdiction of Section 404 of the CWA over isolated waters exceeded the authority granted by that section (Meltz and Copeland 2001). However, in the years following the ruling, SWANCC has been read very narrowly and has been used primarily to reject Corps jurisdiction over isolated waters that are not adjacent to wetlands and to disallow the use of habitat by migratory birds as a means for the Corps to assert authority. In several other cases,

such as United States vs. Riverside Bayview Homes (1985) and Headwaters, Inc. vs. Talent Irrigation District (2001), courts have ruled that waters adjacent to navigable wetlands are considered "waters of the United States" and fall under the Corps jurisdiction through Section 404 of the CWA (Hennessy and Diffenderfer 2003). In very recent decisions, the Supreme Court held in the matters of Rapanos v. United States, (547 U.S. 715) (2006) and Carabell v. United States Army Corps of Engineers (04-1384) (2006) (consolidated with Rapanos's for arguments before the Supreme Court), that further limited the scope of federal regulation. Joint EPA and Corps guidance post-Rapanos has sought to articulate where the agencies will assert jurisdiction. These areas include: 1) traditionally navigable waters; 2) wetlands adjacent to traditionally navigable waters; 3) non-navigable tributaries of traditionally navigable waters of lesser connectivity to navigable waters are to be regulated based on jurisdiction determined on a case-by-case basis where determined to have a significant nexus with traditionally navigable waters (U.S. EPA and U.S. Army Corps of Engineers, 2007).

Based on these rulings, the Corps would no longer invoke the "migratory bird rule" to imply jurisdiction as they did in the February 2000 letter regarding Pond 20. However, because Pond 20 is directly adjacent to San Diego Bay tidal waters that are traditionally navigable and is separated only by an earthen dike from navigable waters, the Corps has indicated it would assert CWA jurisdiction within Pond 20 where dictated by physical evidence of wetlands or other waters of the U.S. (pers. comm. to K. Merkel, Mark Durham, South Coast Chief, L.A. District Reg. Branch, ACOE and Jae Chung, L.A. District, Reg. Branch, ACOE, July 2008).

California Department of Fish and Game Jurisdiction

The California Department of Fish & Game (CDFG) regulates alterations of "streambeds" through the development of a Streambed Alteration Agreement pursuant to Division 2, Chapter 6, Sections 1600 et seq. of the Fish and Game Code. An Agreement is required whenever a project would "divert, obstruct or change the natural flow or bed, channel or bank of any river, stream or lake designated by the Department."

The breadth of areas subject to regulation by CDFG under Section 1600 are less clearly defined than those regulated by Corps; however, in general, the policies are fairly consistent. It is clear that the California statutes cover all rivers, streams, lakes and streambeds that may exhibit intermittent flows of water. However, Section 1600 *et seq.* does not extend to isolated wetlands and waters such as small ponds not located on a drainage course, wet meadows, vernal pools, or tenajas as does federal jurisdiction. Furthermore, Department jurisdiction does not extend over marine waters that are dominated by the ebb and flow of the tide and lack typical bed and bank form of a stream. However, Section 1600 *et seq.* jurisdiction extends over all riparian habitat supported by a river, stream, or lake regardless of the riparian area's federal wetland status.

Within estuary environments, it is not always readily apparent where Section 1600 jurisdiction ends and it becomes necessary to employ a preponderance of evidence standard. Under this standard, the geometry of the water feature, the predominant salinity of the waters, the composition of vegetation, and the predominant fauna area used to determine the limits of Department regulatory authority under section 1600. Where waters are principally marine, aquatic shorelines are shaped principally by tidal current and wave action not by fluvial processes, vegetation is saline marsh and not brackish or freshwater vegetation, and marine fish and invertebrate communities are prevalent, waters are not regulated under section 1600 of the Fish & Game Code. Conversely, where fresh and brackish salinities prevail, fluvial erosion patterns exist, and freshwater aquatic species dominate, areas are regulated under section 1600.

Pond 20 does not contain a streambed and is isolated from adjacent tidal wetlands. Therefore, Pond 20 is not subject to CDFG jurisdiction. The drainages of Nestor Creek to the east of Pond 20 and the storm drain outlet to the west of Pond 20 exhibit mixed characteristics of an estuary/marine environment. Upper portions of these drainages are regulated under section 1600, while the lower portions are not as these areas are nearly fully marine.

California Coastal Commission

Wetlands

The California Coastal Commission regulates wetlands occurring throughout the California coastal zone through the development of a coastal zone permit. The Coastal Act defines "wetland" in Section 30121 of the Coastal Act as follows:

Wetland means lands within the coastal zone that may be covered periodically or permanently with shallow water and include saltwater marshes, freshwater marshes, open or closed brackish water marshes, swamps, mudflats and fens.

The CCC Administrative Regulations (Section 13577(b)) further expand upon this definition as follows:

Wetlands are lands where the water table is at, near, or above the land surface long enough to promote the formation of hydric soils or to support the growth of hydrophytes, and shall also include those types of wetlands where vegetation is lacking and soil is poorly developed or absent as a result of frequent or drastic fluctuations of surface water levels, wave action, water flow, turbidity, or high concentrations of salt or other substances in the substrate. Such wetlands can be recognized by the presence of surface water or saturated substrate at some time during each year and their location within or adjacent to vegetated wetlands or deepwater habitats.

The CCC uses the same three criteria for defining wetlands as the Corps, however only one of the three criteria need to be present for an area to be classified as a wetland. Unlike the CDFG, the CCC extends beyond streambeds to include all tidal areas and isolated wetlands; however, jurisdiction is limited to areas within the coastal zone. The entire Pond 20 site falls within the coastal zone.

The CCC wetland definition is generally more encompassing than either the Corps or CDFG definition in most respects. However, the language of the Section 13577(b) of the Administrative Regulations would suggest that, where conditions are not capable of supporting hydric soils or hydrophytic vegetation, hydrologic indicators of saturation or surface waters should be expressed on an annual basis ("*at some time during each year*") not just under ordinary high water conditions as is the case under the federal regulatory standard. As a result, the Coastal Act definition of wetlands would appear to be more limited than the federal act where no soil or vegetation indicators exist.

Environmentally Sensitive Habitat Areas (ESHA)

The California Coastal Act (Section 30107.5) defines Environmentally Sensitive Habitat Areas as:

any area in which plant or animal life or their habitats are either rare or especially valuable because of their special nature or role in an ecosystem and which could be easily disturbed or degraded by human activities and developments

In the context of this study, an ESHA may include wetland habitats and areas of nesting waterfowl or shorebirds.

SITE LOCATION

The investigated site consists of Port District owned properties at the south end of San Diego Bay. The properties are located in San Diego County, on the northern boundary of Imperial Beach. The site lies south of the Otay River channel, north of Palm Avenue, east of 13th Street, and west of Saturn Boulevard in Imperial Beach (Figure 1). It is situated in Section 20 of Township 18 South, Range 2 West, of the San Bernardino Base and Meridian; USGS Imperial Beach 7.5' Quadrangle. The delineation site is dominated by the southern end of a former brine concentration pond, Pond 20, of the Western Salt South Bay Saltworks. In addition to remnant features of Pond 20, the study area also includes tidal and non-tidal drainage features along Nestor Creek to the east and an unnamed ditch (Palm Avenue Storm Drain) to the Otay River Estuary to the west of Pond 20 (Figure 2). The site is wholly located with the Coastal Zone. A local surface street drain discharges into the southern end of Pond 20. The southern eastern and western boundaries of the site are generally fenced and the northern boundary of the site is not fenced. Gated access exists near the southwestern corner of the property and in the northeastern portion of the property from the San Diego Bay National Wildlife Refuge (NWR).

GENERAL PHYSIOGRAPHY

Over the past century, various internal berms have been constructed, repaired, and removed by operational changes and flooding. These changes have resulted in changing topographic conditions. The Pond 20 site is defined by internal dikes that include three smaller pond cells. South to north, these have been termed Ponds 20A, 20B, and 20C (Figure 2). Areas involved in the present delineation are portions of Pond 20A and 20B.

The western portion of Pond 20A may have historically supported middle to high salt marsh habitat in the 1800s, prior to its conversion near the turn of the last century for salt production. Historic aerial photographs of the area in the 1940s show some vestigial salt marsh south of Pond 20A immediately south of Palm Avenue in areas that have since been filled and developed. The eastern portion of Pond 20A, immediately north of an off-site mobile home park, includes an area that retains evidence of long-ago isolated braided stream patterns associated with the historic mouth of Nestor Creek. The diversion of Nestor Creek by the construction of the Pond 20 dikes, changed the route of the creek to follow its present northerly course along the eastern edge of Pond 20. Pond 20A was last regularly used as an evaporator pond in the 1940s with a failed subsequent effort in the 1960s to reintegrate the pond into the evaporator process of the salt works.



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Pond 20B encompasses portions of a sandy outflow alluvial fan laid down during the 1916 flooding by the Otay River when Savage Dam failed below Lower Otay Reservoir. This portion of the pond is somewhat higher than the elevations within Pond 20A. Pond 20B is still surrounded by linear bands of lowered terrain at the inner base of the dike. These low areas are excavated channels from which dike fill material was taken to reconstruct the dikes after the 1916 floods. These lowered perimeter channels were subsequently maintained to provided for the collection of concentrate water for transfer along the evaporation pond system. Pond 20B has ceased to be used for salt pond operations since at least 1944. All subsequent photographs show no evidence of submersion over the broad interior area. This location is presently cloaked in a poorly developed, limited diversity Diegan Coastal Sage Scrub indicating that the porous sediments laid down during the 1916 flood have been adequately leached of salt concentrate to support salinity intolerant upland vegetation.

On-site topography consists of a relatively shallow basin that is surrounded by a raised earthen dike (the term berm(s) is utilized in this report for interior raised features within the higher dike). The elevation of the basin floor ranges from approximately 2.92 feet to 10.01 feet (MSL) (Dudek 1997). The western half of the Pond 20A "floor" is generally lower than the adjacent Pond 20B and supports a diminishing veneer of salt, calcium sulfate, and other crystallized salt water derivatives. This veneer is the result of historic salt production operations as part of the salt works operations located to the north. In 2000, this veneer was described as being of varying in thickness from approximately 0.5 to 5 inches (Merkel & Associates, 2000). This crust has been substantially reduced over much of the more elevated areas although less soluble calcium salts are still found throughout much of the site. Within the peripheral pond, a solid salt crust persists over a brine solution in deep areas and to the sediment surface in shallower areas.

The eastern portion of the Pond 20A supports an elevated alluvial deposit composed of primarily dark to pale sandy loams and relatively pure sand. This feature appears to be the historic outflow delta of Nestor Creek as evidenced by the coarse mineral deposits and the remnant channel forms existing in the fan.

To the north, Pond 20B is no longer separated by a berm from Pond 20A, but it is visually distinctive from the lower lying Pond 20A. Pond 20B is vegetated by low quality sage scrub. Pond 20B has not been inundated by water since at least 1944. Moreover, it does not have the veneer of salt and saltwater evaporative by-products that are found over the western section of Pond 20A or low-lying areas of Pond 20C. Pond 20C is located to the north of the present study area and is therefore not discussed here.

Aerial photographs from 1928 show Pond 20B with water, however, this was the only photograph located which showed evidence of full inundation. Linear ponds of standing water exist around most of the periphery of the site, at the foot of the surrounding berm. Most of the "breaks" along this linear channel are due to historical changes in the pond (*e.g.*, roads into the pond areas).

The site's soils are mapped as Huerhuero urban land complex along the southern periphery of Pond 20A, Grangeville fine sandy loam in Pond 20B and 20C, and open water within Pond 20A on the USDA Soil Conservation Service maps of San Diego County (based on 1967-1968 aerial photography and field reviews; Bowman 1973). It was during this period that Western Salt was attempting to reintegrate Pond 20 into the salt evaporator system. Under close inspection associated with excavation of soils pits, it is clear that soils within the pond range from fluvial sands and gravels, to mineral and organic derived clays and silts within low-lying and depressional areas of the pond. Notably, at least one depressional area supports an approximately 1-inch thick band of true peat below the present soil surface – a relatively anomalous character for southern California

wetlands. It is likely that this accumulation of peat was associated with unique water chemistry developed in the pond during salt concentration operations. While the presence of peat is interesting, its narrow distribution and historic development is more of a curiosity than a factor of interest in the present delineation.

METHODS

For survey methods of the 2000 and 2003 wetland delineation, refer to Merkel & Associates 2000. The present wetland delineation and jurisdictional determination work was completed by M&A biologists Keith Merkel, Rebecca Erickson, and Bradford Kelly. Supporting the delineation effort were Eileen Maher and William Zhang. Delineation work was conducted in June and July 2008 in accordance with Table 1.

Table 1.	Summary	of the survey	dates, times,	conditions,	and staff.
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Date	Purpose	Staff
6/30/08	Investigate Pond 20, conduct sampling,	Keith Merkel, Rebecca Erickson,
0/30/08	examine hydrology of pond	William Zhang, Eileen Maher (Port)
7/01/08	Investigate Pond 20, conduct sampling, conduct delineation of Nestor Creek and western storm drain ditch	Rebecca Erickson, Bradford Kelly, William Zhang
7/07/08	Investigate Pond 20, conduct sampling, conduct delineation of Nestor Creek and western storm drain ditch	Rebecca Erickson, Bradford Kelly, William Zhang

The wetland delineations of the site were performed using the routine on-site determination methods noted in the 1987 U.S. Army Corps of Engineers' (ACOE) Wetland Delineation Manual (Environmental Laboratory 1987) and the 2006 Interim Regional Supplement to the Corps of Engineers Wetland Delineation Manual: Arid West Region (U.S. Army Corps of Engineers 2006). In addition, the delineation was expanded to identify wetlands/non-wetland waters of the U.S. as well as coastal wetlands and streambeds under federal and state jurisdiction, respectively.

Evidence supporting jurisdictional determinations were recorded on wetland field data forms (Appendix 1) and depicted in ground level photographs (Appendix 2). Wetland habitats and jurisdictional waterways were recorded using a Trimble® geoexplorer GPS unit and/or were plotted on an orthorectified high-resolution (1-foot pixel resolution) February 2007 aerial photograph with topographic overlay.

In addition to the site-specific investigations, the long history of salt pond use has resulted in producing hydric soil and vegetation conditions that are highly atypical in nature and which do not necessarily reflect on-going environmental influences. The 100+ years of salt concentration pond use has both resulted in development of hydric soils and a highly saline environment that both precludes most vegetation growth and sustains saturated hydric soil conditions due to the hydrophilic properties of salts in the soil. Interestingly, soils were sometimes found to be saturated within silty clay near the surface and dry within fine sands at depth. For this reason, field investigations were supplemented with a comprehensive review of regional rainfall history and aerial photograph reviews intended to examine historic inundation conditions within Pond 20 following cessation of salt concentrator uses.

On April 5, 2000 the Port District contracted for a 1-foot resolution aerial topographic survey to facilitate site investigations (SanLo Aerial Surveys 2000). Site conditions have changed little since this survey was conducted. This topographic survey was employed to assess the potential for marine source groundwater to support water levels or to prevent drain-out of surface waters following rain events.

WETLAND FIELD INDICATORS

The following text describes the three parameters, 1) hydrophytic vegetation, 2) wetland hydrology, and 3) hydric soils; used to determine the presence/absence of wetlands and non-wetland waters found within the survey area. Additional information on the overall delineation process and regulatory jurisdictions may be found in the federal delineation manual (ACoE 1987), enacting legislation, or through guidance provided by judicial interpretation, solicitors' opinions, and regulatory guidance issued to District Corps' offices. The presence or absence of parameters was assessed throughout the site to determine if an area was a jurisdictional wetland (see data forms and photo points, Appendices 1 and 2). These indicator parameters are discussed below.

Vegetation

Hydrophytic vegetation is defined as "the community of macrophytes that occurs in areas where inundation and soil saturation is either permanent, or of sufficient frequency and duration to exert a controlling influence on the plant species present" (U.S. Army Corps of Engineers 2006).

Hydrophytic vegetation is present when vegetation communities are dominated by a preponderance (>50%) of species classified as obligate wetland plants (OBL) (estimated probability of occurring in wetlands, >99%), facultative wetland plants (FACW) (estimated probability of occurring in wetlands, 67% to 99%), or facultative plants (FAC) (estimated probability of occurring in wetlands, 33% to 67%) based on the U.S. Department of Agriculture (USDA) Natural Resources Conservation Service (NRCS), on-line Plants Database (ACOE approved plant list) the National List of Plant Species that Occur in Wetlands (U.S. Fish & Wildlife Service 1988). It should be noted that per the ACOE *Interim Regional Supplement to the Corps of Engineers Wetland Delineation Manual: Arid West Region* plus (+) and (-), modifiers are not used (e.g., FAC-, FAC, and FAC+ plants are all considered to be FAC). Dominant vegetation by stratum was noted on the Arid West Region data form at each datapoint and classified according to the designations described above or as "no indicator" (NI) or upland (UPL).

Hydrophytic vegetation is present if any one of three indicator tests is satisfied, as generally applied in the following sequence (U.S. Army Corps of Engineers 2006):

- 1. The dominance test (Indicator 1) is satisfied when "more than 50 percent of the dominant plant species across all strata are rated OBL, FACW, or FAC".
- 2. The prevalence test (Indicator 2) is used when a wetland plant community fails the dominance test, but indicators of wetland hydrology and hydric soils are present; this test "takes into consideration all plant species in the community, not just a few dominants".
- 3. In addition, a plant morphological adaptations test (Indicator 3) can be used to distinguish certain wetland plant communities, where indicators of wetland hydrology and hydric soils are present.

The interior of Pond 20 generally does not support vegetation "in areas where inundation and soil saturation is either permanent, or of sufficient frequency and duration to exert a controlling influence on the plant species". This is the result of extreme soil salinity resulting from the long history of site

use as a salt concentrator. Effectively, the soils exert a "salinity toxicity" that exceeds the capacity for even salt marsh species to survive. For this reason, the interior floor of Pond 20 is considered atypical with respect to vegetation indictors of wetland conditions. This circumstance only applies to the salt concentrator pond and not areas outside of the historically flooded pond floor.

Soils

Hydric soil indicators are present when soil conditions "have formed under conditions of saturation, flooding, or ponding long enough during the growing season to develop anaerobic conditions in the upper part" (USDA, NRCS 2007).

Soils were examined by digging test pits at each datapoint and evaluating excavated soils to determine the profile description. Hydric soil presence/absence was assessed using the chroma index from the Munsell Soil Color Charts (Munsell Color 2000) and the presence or absence of additional hydric soil indicators as described in the 2006 *Interim Regional Supplement to the Corps of Engineers Wetland Delineation Manual: Arid West Region* (U.S. Army Corps of Engineers 2006).

To confirm the presence of hydric soils, soil test pits were excavated using a shovel. Soils taken from depths ranging from 0 to 18 inches were examined for physical and chemical evidence of hydric conditions. Excavated soils were evaluated using the chroma indices from the **Munsell Soil Color Charts** (Munsell Color 2000). Additional indicators of hydric soils, such as vertical streaking, high organic matter content in the surface horizon, mottling, and sulfidic odor, were evaluated during the delineation.

As with vegetation, the interior Pond 20 basin has been highly modified with respect to soil conditions by historic use as a salt concentrator pond. The hydric conditions within the soils that were developed over the long history of use have been sustained in the pond through a combination of factors including the extreme salt content and the tight clay/silt composition of soils that have developed in the lowered portions of the basin. The hydrophilic nature of salt and the tight matrix of the silty clay soils sustain hydric properties of the soil in the absence of suitable supporting hydrology.

While much of the soils in the Pond exhibit hydric character, conditions within the pond are atypical since soils reflect historic modification rather than on-going exposure to processes leading to hydric soil development. Thus, the wetland indicator status of soils within Pond 20 is generally questionable and should be viewed as a potential indicator of wetland conditions rather than a definite indicator of such status.

In an analogous situation, historic sewage sludge drying beds support hydric soil conditions as a result if the wet operations of the beds. When activities cease, hydric soil properties remain for some time although hydrology is removed and the area has lost all proximate wetland character. Further, when sludge bed soils are removed and used elsewhere, the soil properties will be retained, pending ultimate soil changes, even though the full context of wetland conditions are no longer retained in the soil.

Hydrology

Hydrologic wetland indicators included both surficial characteristics (e.g., visual observation of surface flow, drainage patterns, watermarks, and drift lines) and sub-surficial characteristics (e.g., presence of free water in the test pit). Hydrologic indicators were also used to define non-wetland

waters of the United States and waters of the State. This information consisted of drainage patterns and waterborne debris accumulated at the base of existing vegetation, indicators of standing water along shorelines including scarping by wind wave scour, algal or suspended sediment rings. In many instances, presence of a dissolved mineral crust can also be used as an indicator of hydrology. However, caution must be applied within Pond 20 where historic salt concentration activities have created highly saline conditions that include a variety of mineral salts with variable solubilities.

Rainfall Frequency Analysis

Because of the unique characteristics of Pond 20 that limit the utility of salt crusts as an indicator of hydrology, additional elements were used to assist in evaluating normal circumstances as they pertain to site inundation and soil saturation. To assess the ordinary high water conditions within the pond, historic precipitation data was collected to determine the return frequency for annual rainfall accumulation levels reflected in historic areal photographic record for the site. As was previously indicated, a single street drain discharges surface run-off from Palm Avenue to the interior of Pond 20. A combination of tight silty clay soils, near surface tidal waters, and extreme salinity retards drainage outward from the pond, result in accumulation of water in the pond basin, both from local rain and drainage off of Palm Avenue.

Monthly precipitation data were collected and summarized by annual water-year (October-September) for the period 1851 through 2007 (San Diego County Water Authority 2008). From these data, water-years were ranked and an analysis was conducted to determine the probability of exceeding accumulated annual rainfall levels. In addition, the return frequency was calculated for annual rainfall levels. These data are summarized in following sections and the annual data are included in Appendix 3.

Historic Photograph Review

To best understand the conditions within Pond 20, an historic photograph review was undertaken to track the evolution of the current site conditions. Within the last decade, several geospatially rectified aerial images have been available and these were used to assess changes in Pond 20 inundation and saturated soil conditions relative to annual rainfall return frequency (Appendix 4). The intent of this analysis was to determine conditions within the Pond under ordinary high water conditions. If the return frequency can be determined for available registered imagery and the "ordinary high water mark" can be established along with the distribution of saturated soils at or near the surface, it is possible to rely on the photographic evidence as a strong indicator of hydrology.

RESULTS AND DISCUSSION

HISTORIC REVIEW OF POND 20 CONDITIONS

Over the last century Pond 20 has undergone several alterations, resulting at varying times in substantial changes in the proportion of the Pond inundated with standing water. At the present time, the pond's industrial uses are considered abandoned and a prolonged period of salt leaching is underway. This has been slowly resulting in a conversion of higher lands to upland habitats and concentration of salts to form crystalline surfaces within lower elevations. The following describes the history and present status of the Pond 20 site.

1900-1910 Era

The Western Magazine (Volume 1, #3) includes a 1904 generalized relief map of the south end of San Diego Bay which indicates the tidal portion of the Bay may not have included the area now known as Pond 20. The Bay ends abruptly rather than extending farther southward towards Palm Avenue. It is not known at what date this map was drawn. It does show a sandy area beyond the southern Bay that extends southward into the approximate area of Pond 20; which may indicate mud flats and/or a tidal slough were present. The veracity of this map is not known; however the configuration of the remainder of the Bay is generally similar in outline to what is known to be the Bay's dimensions.

The Western Magazine from October 1906 shows another relief drawing of the south end of the Bay. This includes a "proposed" Wharf to the immediate west of the northwestern corner of Pond 20, as well as an existing rectangular basin approximately where the western half of Pond 20 is situated. The basin is contiguous with the Bay. Within this basin are two parallel sets of six smaller rectangles; each set is separated by a narrow expanse of water. These small rectangular areas may account for the exposed wooden post bases and wooden footings that are still present in linear arrangements in the western portion of Pond 20A. It is not known how these wooden walkways were utilized; only traces of their foundations remain.

1928 Aerial Photograph

The 1928 photograph of the Pond 20 area (County Aerial, Sheet 77C4) shows the site divided into two ponds. A first pond (Pond 20A), lower in elevation, occupies the south and the west; while a higher elevational pond (Pond 20B) of roughly comparable size is situated in the northeast. In the extreme north is a small area (Pond 20C). Both Ponds 20B and 20C show signs of the 1916 flood, with vestiges of a channels coursing across the extreme corner of the property; and originating from off-site to the east as well as terminal bar formation in a flood delta pattern. In subsequent aerial photographs over the next six decades the small northernmost area, Pond 20C, is separated by a large berm from the two large southern impoundments (this berm was absent by the 2000 survey). The historic berm is situated approximately where the historical river channel can be discerned. From the 1916 flood. In 1928 the dike running entirely around Pond 20, isolates the area completely from all sides, including the channelized Otay River that now runs parallel to the northern portion of the dike.

Unlike all subsequent aerial photographs, both Pond 20A and 20B are flooded in the 1928 photograph. A small irregular portion of Pond 20B in the extreme northeast was above water.

1945 Aerial Photograph

In this aerial photograph, Pond 20A is submersed and Ponds 20B and 20C are above water. Pond 20A was underwater in 1945 and all subsequent photographs into the early 1990s. In almost all of the twenty-three photographs from different dates examined from 1953-1991, a portion of Pond 20A in the eastern arm/extension was above the inundation level. The acreage of these exposed areas varies from photograph to photograph; however, the general shape remains the same.

In all subsequent photographs Pond 20B was exposed except for a narrow channel that runs along the periphery of this area at the foot of the dike. This channel was the borrow area for materials used to construct the Pond 20 containment dike. Similar conditions were observed for Pond 20C.

1953 Aerial Photograph

Conditions observed in 1953 photographs were similar to that noted in 1945 photographs.

1960s Aerial Photographs

Photographs of the site were examined from February 4, 1964 (an oblique); September 20, 1966; September 6, 1968; April 17, 1969; December 12, 1969; and December 29, 1969. All photographs exhibit similar conditions as the photos reviewed from 1945 and 1953.

During this period, Western Salt reported having attempted the re-establishment of production use of Pond 20, however efforts were not successful and no further attempts were made to use this site as a part of the salt works production area.

1970s Aerial Photographs

Photographs of the site were examined from November 8, 1970; June 16, 1971; August 5, 1972; July 2, 1974; November 30, 1976; August 3, 1977; and July 19, 1978. During this period conditions remain roughly the same as in recent previous decades.

1980s Aerial Photographs

Photographs of the site were examined from July 1, 1982; October 9, 1982; March 4, 1983; November 26, 1983 (oblique); and September 7, 1985. During this period conditions remain roughly the same as in recent previous decades.

1990s Aerial Photographs

A photograph from March 3, 1991 shows more of the northeastern portion of Pond 20A exposed than was typical in prior photographs. However, it also shows that Pond 20C which had been primarily dry since the 1945 aerials was now inundated in both the east (approximately 1/3 of this small area) and west (also approximately 1/3 of this small area). These changes suggest that a portion of the berms separating the various sub-ponds may have failed between 1985 and 1991 allowing some of the water from Pond 20A to be redistributed to Pond 20C. It is not known for sure that berms failed since a similar situation was also observed in the March 4, 1983 photograph. However, other photos generally show two very small linear areas of standing water only, along the southern boundary of Pond 20C, and thus, the extensive flooding in Pond 20C is not considered to be ordinary in the context of ponding conditions.

Within the 1995 Aerial Foto-map Book, Pond 20A is approximately 70-80% exposed. Pond 20B has changed little since 1945. In the USGS 1996 photograph, inundation conditions were comparable to those observed in the early 1990s. Less extensive inundation was observed in the 1998 Navy photograph.

Analysis of Historical Photos and Uses

Based on the review of site photo documentation and reports of past production uses of Pond 20, it can be concluded that the industrial process uses of Pond 20 at the Western Salt facility have been abandoned for over thirty years and are abandoned in a regulatory sense. The historic application of abandonment assessments by the Los Angeles District has revolved around timeframes of 1 to 2

years of inactivity on a site. In a recent instance, the Corps concluded that a sand mining operation had not been abandoned, even though no mining had been done for several years. However, this situation is distinguished by the fact that the operation had been ordered by the Courts to cease and desist and had not quit mining willfully. Further the record indicated that the operator had continued to seek to reclaim the site for several years and had even obtained permits and approvals but was slowed by regulatory processes and on-going conflicts beyond the operators individual control. In the present situation, the record suggests that no such complications existed in the cessation of use of Pond 20 by Western Salt; rather, it became economically disadvantageous considering the operation costs and logistical constraints to continue to use this pond in the facilities operation.

During the recent 2000, 2003 and the present 2008 delineation, only a narrow perimeter ditches around much of Pond 20A supported any surface water. In 2000 and 2003, it was noted that the majority of the salt crust in Pond 20A was exposed and showed little evidence of recent inundation. Interestingly, in the present 2008 delineation, the flats away from the perimeter ditch generally showed high salt levels, but not the same surface crystallization observed earlier this decade. Conversely, the perimeter ditch supported a very stable salt block of several inches to feet thick with open fissures of deep brine pools that extended under the crystallized formation. This condition differs from the much thinner and more fragile salt crust in the perimeter ditch observed in 2000 and 2003. The conditions of the salt crust are reminiscent of thick ice in areas affected by fluctuating water levels. Close field observations over the past eight year survey period suggest that salts are being gradually leached from higher ground and transported down towards the perimeter ditch where greater salt accumulation is occurring. This is suggested both by the surface salt characteristics observed as well as the growing presence of vegetation within higher portions of the Pond 20A site.

Pond 20B appears similar to most photos of the 1945-1990 period. This area retains sage scrub components and show only limited inundation with sporadic and relatively minor evidence of salt crystallization in low-lying areas around the periphery of the pond.

Given the long period since this site was last used for production of salt, it is believed the varying periods of high and low inundation levels are indicative of normal, interannual variability in rainfall and evaporation rates. The pond is dependent both on local precipitation in the pond and run-off from Palm Avenue. Absent changes in storm drainage patterns, it is anticipated that physical site conditions would remain relatively constant well into the future.

RAINFALL AND HYDROLOGIC ANALYSIS

Annualized rainfall data are presented by water-year for the latest 157-year period from 1851 through 2007 in Chart 1. The percent exceedence has been calculated and presented for rainfall levels experienced over the record period (Chart 2). Finally, the calculated return period has been determined for each recorded year and the return period curve has been developed from the recorded data (Chart 3).

For the recent two decades, both the extremes of rainfall and drought have been represented (Table 3). During El Nino years of 1993, 1995, 1998, and 2005 rainfall had return periods of 31.4 years, 15.7 years, 17.4 years, and 52.3 years, respectively. The 2005 water-year was the third wettest year in the 157-year review period. Conversely, 2002 was the driest year recorded within the 157-year period. The years 1989, 1996, 2000, 2002, and 2004 all rank within the lowest 20 percent for precipitation levels during the reviewed history.

Water Year	Rainfall	Rank	P(exceed)	ReturnRate
1987	9.3	83	0.529	1.9
1988	12.44	36	0.229	4.4
1989	5.88	131	0.834	1.2
1990	7.62	110	0.701	1.4
1991	12.31	37	0.236	4.2
1992	12.48	35	0.223	4.5
1993	18.26	5	0.032	31.4
1994	9.93	66	0.420	2.4
1995	17.13	10	0.064	15.7
1996	5.18	140	0.892	1.1
1997	7.73	108	0.688	1.5
1998	17.16	9	0.057	17.4
1999	6.5	121	0.771	1.3
2000	5.75	134	0.854	1.2
2001	8.57	96	0.611	1.6
2002	3.3	157	1.000	1.0
2003	10.31	63	0.401	2.5
2004	5.18	140	0.892	1.1
2005	22.6	3	0.019	52.3
2006	5.97	129	0.822	1.2
2007	3.59	155	0.987	1.0

Table 2.	Summarv	of recent	rainfall	record	and	statistics	for §	San	Diego	(1987-	2007).*	
I ubic 2.	Summury	orrectine	- aman	iccoru	unu	Building	TOT V	Juii .	Dicgo	(1)07	_ 001).	

*Bolded records denote the presence of rectified aerial photographs included in this review (Appendix 4).



Figure 3. Annual precipitation levels by water-year (Oct.-Sept.) for San Diego.



Figure 4. Probability of exceeding rainfall levels based on annual rainfall totals (1851-2007).



Figure 5. Return period for annual rainfall levels based on rainfall totals for the period 1851-2007.

Because Pond 20 is isolated from tidal surface water connections, topography does not provide a good indicator of potential hydrologic influences as it does in fully tidal environments. However, an existing Palm Avenue street drain discharges to the pond along its southern boundary and sustains intermittent presence of surface water within the peripheral ditch around portions of Pond 20A. Under most years, the peripheral ditch supports only limited surface water exposed along the incomplete closure fissures of a salt crust across the ditch. However in some years, the ditch is filled with brine solution and soils in lowered terrain is darkened by near surface saturation. When reviewing the site soil conditions and hydrologic indicators, it is clear that the patterns expressed by intermittent hydrologic indicators fit well with the conditions expressed by recent high water levels within Pond 20. These features are most likely driven by the high annual rainfall conditions of 2005. This year yielded rainfall exceeding a 52-year return period, however, due to the relatively defined basin form of the perimeter ditch within Pond 20, the 2005 aerial photograph did not suggest conditions highly different from that experience in other wet years such as 1998 (Appendix 4). For this reason, the waterline and soil saturation conditions detectible within the 2005 photograph were used to complete the boundaries of waters where field evidence became unclear or was unmanageable do to boundary complexity.

DETERMINATION OF THE DISTRIBUTION OF WATERS OF THE U.S.

Wetland hydrology indicators were used in combination with indicators of hydric soil and hydrophytic vegetation to determine whether an area is a wetland under the ACOE Manual (U.S. Army Corps of Engineers 2006). Wetland hydrology is indicated by the presence of surficial characteristics or sub-surficial hydrology characteristics, which may include observation of surface water or darkened saturated soils, evidence of recent inundation, evidence of recent soil saturation, or evidence from other site conditions or data. Where weak hydrology indicators were found or indicators are confounded by residual conditions associated with historic uses of Pond 20 as a salt concentrator, aerial photographic evidence and rainfall data were used to assess inundation and saturation to the surface.

Soils in test pits, hydrologic indicators, and vegetation composition were all utilized to estimate the extent of wetlands and non-wetland waters. The distribution of sampling followed the necessity to distinguish boundaries and to confirm presumed regulatory status of particular areas (Figure 6). In addition, another hydrologic indicator, sharp irregularly formed salt crystals, was used to delineate the boundaries of areas that were more recently inundated (see discussion in Methods). In the majority of instances, test pits with hydric soils and/or saturated soils also had irregularly shaped salt crystals on the surface.

For purposes of conducting wetland determinations, this document addresses the regulatory jurisdiction of the ACOE, CCC, and CDFG. In the present situation, jurisdictional boundaries are frequently coincident between agencies and as such, they have been mapped in a manner that indicates which jurisdictions exist over what areas (Figure 6). As mentioned above, the state definition of wetlands is broader than the federal definition due to the state requirement to meet hydrology, hydric soils, or hydrophytic vegetation whereas the federal requirement is to meet all three parameters under normal circumstances. Because wetlands are a subset of waters of the U.S., federal jurisdiction may extend beyond the limits of areas meeting three-parameter wetland criteria. As a result, wetlands have been mapped as an overlay to the federal regulatory jurisdiction that is defined by the hydrology parameter only.

While not explicitly relevant to the determination of jurisdictional boundaries, the regulated areas within the study area support differing habitats. In that these habitat features play a role in defining beneficial uses and are useful in describing the characteristics of the regulated areas, they have been mapped and are referenced in the subsequent sections of this document (Figure 7).

Federal Wetlands (ACOE)

Federal wetlands are those areas that meet all requirements of the three-parameter definition of the Corps of Engineers wetland delineation manual (ACoE 1987) under normal circumstances. The Corps clarified the term normal circumstances in a regulatory guidance letter issued in 1986 (RGL 86-9) and, in part indicated that the Corps does not intend to regulate areas that are not aquatic, but experience an abnormal presence of aquatic vegetation. The Corps pointed out that some aquatic species are able to persist in upland situations simply because the high salt content of the soil precluded the occurrence of upland vegetation. The RGL further indicated that the Corps does not intend to regulate prior converted wetlands that have been transformed into dry lands, but rather those that exist at present.

Federal wetlands were found to exist both along the narrow levee-contained ditch that defines Nestor Creek as it crosses the study area from south to north along the eastern portion of the site and within the Palm Avenue Storm Drain ditch as it runs south to north along the western portion of the site. In both of these areas, the very southern (upper) end of the drainage supports disturbed freshwater marsh vegetation while the northern (lower) end of the drainage supports typical southern coastal salt marsh vegetation (Figure 7). The low gradient drainages transition rapidly from freshwater vegetation dominance to salt marsh near the highest tide line as a result of the low freshwater inflow rates throughout most of the year.

As was the case in the 2003 delineation, the 2008 delineation found no jurisdictional wetlands within Pond 20. While much of Pond 20 lacks vegetation, where present, vegetation within the pond at the time of the 2008 delineation was dominated by Slender-leaved Iceplant (*Mesembryanthemum nodiflorum*), a facultative upland species. Five-horn Smotherweed (*Bassia hyssopifolia*), a

M&A #06-007-09



M&A #06-007-09



facultative species was common within higher portions of the pond in non-clay soils where salts had been substantively leached out. Slender-leaved Iceplant, forms a mat over a large portion of Pond 20A and 20B. Areas that supported hydrophytes such as Salt Heliotrope (*Heliotropium curvassavicum*) and Halberd-leaf Saltbush (*Atriplex triangularis*) failed to meet the requirements of being predominated by hydrophytes and were determined to fail the vegetation criterion for being considered wetlands (Appendix 1). These areas also generally failed one or both of the other two defining parameters as well.

Other Waters of the U.S. (ACOE)

During 2008, a substantial portion of the study site was determined to be non-wetland waters of the U.S. These areas are characterized as salt flats and ponds (Figure 4). The determination of the extent of non-wetland waters was based on physical hydrologic indicators such as erosion scarps, debris lines, standing surface water, sharply defined salt crystals in salt crusts helped to define the high water line in these areas. Aerial photographic evidence of inundation or saturated soils in recent years was also used to determine the limits of waters.

Because of the strong dependence of Pond 20 on rainfall and Palm Avenue runoff, the evidence of surface hydrology is relatively transitory from year to year. As a result, the surface waters and indications of soil saturation that were represented in wet year photographs were used to map jurisdictional boundaries where field evidence is presently lacking in the pond.

Coastal Act Wetlands (CCC)

Under the Coastal Act, any of three parameters (hydrology, hydric soils, or hydrophytic vegetation) may be used to distinguish an area as a wetland. The single parameter of hydrology is used in the determination of an area as a water of the U.S. and thus the Commission shares much of the same jurisdiction as the ACOE with respect to waters. However, there are a small number of areas along the western margin of the site where the Coastal Commission jurisdiction extends over high salt marsh vegetation (dominated by salt grass (*Distichlis spicata*), salt heliotrope) that fails to meet soils and hydrologic characteristics. Similarly, there are salt pannes that exist above the highest high tide line that meet hydric soil criteria, but fail to meet hydrology or vegetation characteristics (Figure 4).

Streambeds (CDFG)

The freshwater segments of Nestor Creek and the Palm Avenue Storm Drain ditch are considered to be streambeds regulated by the California Department of Fish & Game. These areas include disturbed freshwater marsh dominated by soft-flag cattail (*Typha latifolia*), wild radish (Raphanus satevus), cyperus (*Cyperus eragostis*), and tree tobacco (*Nicotiana glauca*) (Figure 4). The low inflow drains do not contribute enough flow on a regular basis to support riparian conditions or physical characteristics of a fluvial system in any portion of the drainage where regular tidal waters penetrate. In these areas, purely marine environments dominate and, despite the confined geometry of the two ditches, the areas are considered to be marine slough channels and not streambeds. As a result, the CDFG jurisdiction extends only about 100 feet into the southern portion of the study area on both the eastern and western boundaries of the site.

INDIVIDUAL AGENCY JURISDICTIONS AS REGULATED WATERBODIES

Table 3 summarizes the extent of regulatory jurisdiction determined over wetlands and watercourses by various agencies and by assessor's parcel numbers.

Table 4 provides the breakdown of habitats falling within the regulated waterways. There has been no effort made to break habitats down to narrower community definitions, as this was not the objective of this investigation.

0		i U				
JURISDICTION	61602008	61602012	61602108	62102004	62102008	TOTAL
ACOE, CCC, CDFG	0.05			0.03		0.08
ACOE, CCC	6.08	3.11	2.16	2.10	0.22	13.67
CCC	0.18					0.18
TOTAL	6.31	3.11	2.16	2.13	0.22	13.92

Table 3.	Acres of	iurisdictional	watercourses	by regu	atory agency.
I upic of	THEI CD OI	Jui isuicional	water courses	oj regu	acory agency.

AGENCY TOTAL	61602008	61602012	61602108	62102004	62102008	TOTAL
ACOE	6.13	3.11	2.16	2.13	0.22	13.75
CCC	6.31	3.11	2.16	2.13	0.22	13.92
CDFG	0.05			0.03		0.08

Table 4. Acres of habitats comprising the jurisdictional waters.

		ASSESSOR PARCEL NUMBER						
HABITATS	61602008	61602012	61602108	62102004	62102008	TOTAL		
Coastal Salt Marsh	1.39		0.03	0.16		1.58		
Freshwater Marsh/Dist.	0.05			0.03		0.08		
Salt Flats/Pond	4.68	3.11	2.13	1.94	0.22	12.07		
Salt Panne	0.19					0.19		
TOTAL	6.31	3.11	2.16	2.13	0.22	13.92		

ENVIRONMENTAL SENSITIVE HABITAT AREAS

The Coastal Act wetland habitat mapped within the study area would be considered an ESHA by the California Coastal Commission. In 2003, black-necked stilts were observed nesting along the western portion of Pond 20, however during the current investigations, no shorebird use was noted within Pond 20. Both the lateness of the season and the loss of a water barrier along the southern, eastern, and western portions of the pond may contribute to the absence of detected shorebird use at the present time. It would not be unexpected to see shorebirds, particularly birds such as killdeer and black-necked stilts that nest on flats away from other birds, to make use of portions of Pond 20 as a nesting area, this would be especially true when the perimeter ditch holds water and creates somewhat of a moat that protects the Pond interior from mammalian predators.

LITERATURE CITED

- Army Corps of Engineers. 1987. Corps of Engineers Wetlands Delineation Manual: Appendix C, Section 1; Region 0 - California. Technical Report Y-87-1. U.S. Army Engineers Waterways Experiment Station, Vicksburg, Mississippi.
- Army Corps of Engineers. 2006. Interim Regional Supplement to the Corps of Engineers Wetland Delineation Manual: Arid West Region.
- Bowman, Roy H. 1973. Soil Survey of the San Diego Area, California, Part I. U.S. Department of Agriculture, Soil Conservation Service and U.S. Forest Service. December, 1973.
- Dudek & Associates. 1997. Wetland Delineation for Mag Ponds and Pond 20 at Western Salt Company.
- Hennessy, K. and M. Diffenderfer. 2003. SWANCC: Two Years Later. http://www.llw-law.com/article9845.cfm.
- Hickman, James C., ed. 1993. The Jepson Manual, Higher Plants of California. University of California Press, Berkeley. 1400 pp.
- Holland, Robert F. 1986. Preliminary Descriptions of the Terrestrial Natural Communities of California. California Department of Fish and Game.
- Meltz, R. and C. Copeland. 2001. The Supreme Court Addresses Corps of Engineers Jurisdiction Over "Isolated Waters": The SWANCC Decision. http://www.ncseonline.org/NLW/CRSReports
- Merkel & Associates, Inc. 2000. Jurisdictional Wetland Delineation Report for Western Salt Pond 20, Imperial Beach, CA. Prepared for Ninyo and Moore and San Diego Unified Port District. 16 pp.
- Munsell Color. 1974. Munsell Soil Color Charts. Macbeth, a Division of Kollmorgen Corporation, Baltimore, Maryland.
- Oberbauer, Thomas. 1991. Terrestrial Vegetation Communities in San Diego County Based on Holland's Descriptions. Unpublished list.
- Rogers, Thomas H. 1965. Geologic Map of California, Santa Ana Sheet (fifth printing 1985). State of California, The Resources Agency Department of Conservation, Division of Mines and Geology.
- U.S. Environmental Protection Agency and U.S. Army Corps of Engineers. 2007. CleanWater Act Jurisdiction Following the U.S. Supreme Court's Decision in Rapanos v. United States and Carabell v. United States. June 5, 2007
- U.S. Fish and Wildlife Service. 1991. Wetland Delineation Manual, Appendix C, Section 1: National List of Plant Species that Occur in Wetlands, Region 0 California.

_____. 1988. National List of Plant Species that Occur in Wetlands: California (Region 0). Biological Report 88(26.10).

APPENDIX 1. WETLAND DATA FORMS

WETLAND DETERMINATION DATA FORM – Arid West Region

Project/Site: Pond 20		City/County: Imp	erial Beach/	San Diego	_ Sampling	Date: 6/30/08
Applicant/Owner: Port of San Diego			:	State: CA	_ Sampling	Point: DP1/PP1
Investigator(s): Keith Merkel/Rebecca Erickson/Eileen M	Maher	Section, Townsh	ip, Range: <u>S2</u>	20; T18S; R2W	1	
Landform (hillslope, terrace, etc.): Slope of berm		Local relief (concave, convex, none): none Slope (%):				
Subregion (LRR): C	_ Lat: 629	.98534.45483 Long: 1793572.13269 Da			Datum: NAD83	
Soil Map Unit Name: Huerhuero - Urban Land Complex	_			NWI classif	ication: PEN	Лh
Are Vegetation <u>No</u> , Soil <u>No</u> , or Hydrology <u>No</u> sig Are Vegetation <u>No</u> , Soil <u>No</u> , or Hydrology <u>No</u> na SUMMARY OF FINDINGS – Attach site map s	gnificantly aturally pro	disturbed? oblematic? g sampling pc	Are "Normal (If needed, e	Circumstances" explain any answ ons, transect	present? Y vers in Rema	res <u>×</u> No Irks.) ant features, etc.
Hydrophytic Vegetation Present? Yes No Hydric Soil Present? Yes No Wetland Hydrology Present? Yes No Remarks: Yes No	>	Is the Sar within a V	mpled Area Netland?	Yes	No _	<u>×</u>
DP1 is not located within a wetland. ACOE/CCC juris	dictional	. Please refer to	o hydrology	notes.		

VEGETATION

	Absolute	Dominant	Indicator	Dominance Test worksheet:
Tree Stratum (Use scientific names.)	% Cover	Species?	Status	Number of Dominant Species
1	. <u> </u>			That Are OBL, FACW, or FAC: (A)
2				Total Number of Dominant
3			. <u> </u>	Species Across All Strata: (B)
4				Percent of Dominant Spacing
Total Cover:				That Are OBL, FACW, or FAC: (A/B)
Sapling/Shrub Stratum				
1	. <u> </u>			Prevalence Index worksheet:
2				Total % Cover of: Multiply by:
3				OBL species x 1 =
4				FACW species x 2 =
5				FAC species x 3 =
Total Cover:				FACU species x 4 =
Herb Stratum				UPL species x 5 =
1				Column Totals: (A) (B)
2				
3				Prevalence Index = B/A =
4				Hydrophytic Vegetation Indicators:
5.				Dominance Test is >50%
6.				Prevalence Index is ≤3.0 ¹
7				Morphological Adaptations ¹ (Provide supporting
8.				data in Remarks or on a separate sheet)
Total Cover:				Problematic Hydrophytic Vegetation ¹ (Explain)
Woody Vine Stratum				
1				¹ Indicators of hydric soil and wetland hydrology must
2.				be present.
Total Cover:				Hydrophytic
% Para Ground in Harb Stratum	of Riotic Cu	ruct		Vegetation Present? Ves No X
Bare Glound in Herb Stratum % Cover		iusi		
Remarks:				
No vegetation present.				

Profile Des	cription: (Describe t	o the dept	h needed to docun	nent the i	ndicator	or confirm	the absence	of indicators.)	
Depth	Matrix		Redox Features						
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks	
0-12	2.5 YR 3/1							Silty Clay Loam	
				·	<u> </u>				
				·					
1 Type: C=C	Concentration D-Denk	ation RM-I	Peduced Matrix			a Lining R	C-Root Chann		
Hydric Soil Indicators: (Applicable to all I RRs, unless otherwise				wise note	ed.)	s Linnig, ix	Indicators	for Problematic Hydric Soils ³ :	
Histosol (A1)			Sandy Redox (S5)				1 cm Muck (A9) (I BR C)		
Histic Eninedon (A2)			Stripped Ma	$\frac{1}{3}$ (00)			2 cm Muck (A10) (LRR B)		
Black Histic (A3)			X Loamy Muc	kv Mineral	(F1)		Reduced Vertic (F18)		
Hvdrogen Sulfide (A4)			Loamy Glev	ed Matrix	(F2)		Red Pa	arent Material (TF2)	
Stratified Lavers (A5) (I RR C)			X Depleted Matrix (F3)				Other (Explain in Remarks)		
1 cm M	uck (A9) (LRR D)	,	Redox Dark	Surface (F6)			· · · · · · · · · · · · · · · · · · ·	
Deplete	d Below Dark Surface	(A11)	Depleted Da	ark Surfac	e (F7)				
X Thick D	ark Surface (A12)		Redox Depr	essions (F	-8)				
Sandy M	Mucky Mineral (S1)		Vernal Pools (F9)				³ Indicators of hydrophytic vegetation and		
Sandy Gleyed Matrix (S4)							wetland	hydrology must be present.	
Restrictive	Layer (if present):								
Туре:									
Depth (in	iches):						Hydric Soil	Present? Yes X No	
Remarks:									
Donacita of	aand throughout me		located within a	lt anuat h		طريقه ممثل -	recent		
Deposits of	sand throughout ma	airix. DP1	located within sa	an crust b	erm. Hy	aric soll p	present.		

HYDROLOGY

I

Wetland Hydrology Indicato	ors:			Secondary Indicators (2 or more required)		
Primary Indicators (any one in	ndicator is su	Water Marks (B1) (Riverine)				
Surface Water (A1) S			Salt Crust (B11)	Sediment Deposits (B2) (Riverine)		
High Water Table (A2)	High Water Table (A2)			Drift Deposits (B3) (Riverine)		
Saturation (A3)			Aquatic Invertebrates (B13)	Drainage Patterns (B10)		
Water Marks (B1) (Nonri	verine)		Hydrogen Sulfide Odor (C1)	Dry-Season Water Table (C2)		
Sediment Deposits (B2) (Nonriverine	e)	Oxidized Rhizospheres along Living	ng Roots (C3) Thin Muck Surface (C7)		
Drift Deposits (B3) (Nonr	iverine)		Presence of Reduced Iron (C4)	Crayfish Burrows (C8)		
Surface Soil Cracks (B6)			Recent Iron Reduction in Plowed S	Soils (C6) Saturation Visible on Aerial Imagery (C9)		
\underline{X} Inundation Visible on Aerial Imagery (B7) \underline{X} Other (Explain in Remarks				Shallow Aquitard (D3)		
Water-Stained Leaves (B	9)			FAC-Neutral Test (D5)		
Field Observations:						
Surface Water Present?	Yes	No _	Depth (inches):			
Water Table Present? Yes No D		Depth (inches):				
Saturation Present? (includes capillary fringe)	Yes	_ No _	Depth (inches):	Wetland Hydrology Present? Yes <u>×</u> No		
Describe Recorded Data (stre	am gauge,	monitor	ring well, aerial photos, previous inspection	ions), if available:		
Remarks:						
2005 Aerial Imagery and ra	infall data.	Hydro	ology present.			
Project/Site: Pond 20	City/County: Imp	perial Beach	/San Diego	_ Sampling	Date: 6/30/08	
---	---	--	---	---	---	---
Applicant/Owner: Port of San Diego			State: CA	_ Sampling	Point: DP2/PP2	
Investigator(s): Keith Merkel/Rebecca Erickson/Eileen	Maher	Section, Townsh	nip, Range: <u>S2</u>	20; T18S; R2W		
Landform (hillslope, terrace, etc.): Slope of berm		Local relief (con	cave, convex,	none): none		Slope (%): <u>~30%</u>
Subregion (LRR): C	98526.95922	Long	1793563.4888	34	Datum: NAD83	
Soil Map Unit Name: Huerhuero - Urban Land Complex				NWI classif	ication: PEN	<i>I</i> h
Are climatic / hydrologic conditions on the site typical for this Are Vegetation <u>No</u> , Soil <u>No</u> , or Hydrology <u>No</u> sig Are Vegetation <u>No</u> , Soil <u>No</u> , or Hydrology <u>No</u> na SUMMARY OF FINDINGS – Attach site map s	ignificantly aturally pro showing	ar? Yes disturbed? oblematic? g sampling po	Are "Normal Are "Normal (If needed, e	(If no, explain in I Circumstances" explain any answ ons, transect	Remarks.) present? Yers in Rema s, import	res X No rks.) ant features, etc.
Hydrophytic Vegetation Present? Yes No Hydric Soil Present? Yes No Wetland Hydrology Present? Yes No Remarks: No	×	Is the Sa within a	mpled Area Wetland?	Yes	No _	<u>×</u>
DP2 is not located within a wetland. ACOE/CCC juris	sdictional	. Please refer t	o hydrology	notes.		

	Absolute	Dominant	Indicator	Dominance Test worksheet:	
Tree Stratum (Use scientific names.)	% Cover	Species?	Status	Number of Dominant Species	ļ
1				That Are OBL, FACW, or FAC: (A)	
2				Total Number of Dominant	
3				Species Across All Strata: (B)	
4					ļ
Total Cover:				Percent of Dominant Species	B)
Sapling/Shrub Stratum					5)
1				Prevalence Index worksheet:	
2				Total % Cover of: Multiply by:	
3.				OBL species x 1 =	ļ
4.				FACW species x 2 =	ļ
5				FAC species x 3 =	ļ
Total Cover				FACU species x 4 =	ļ
Herb Stratum				UPL species x 5 =	ļ
1				Column Totals: (A) (B	3)
2.					')
3.				Prevalence Index = B/A =	ļ
4.				Hydrophytic Vegetation Indicators:	
5				Dominance Test is >50%	ļ
6				Prevalence Index is ≤3.0 ¹	ļ
7				Morphological Adaptations ¹ (Provide supporting	ļ
0				data in Remarks or on a separate sheet)	ļ
0				Problematic Hydrophytic Vegetation ¹ (Explain)	
Woody Vine Stratum					ļ
1 -				¹ Indicators of hydric soil and wetland hydrology must	ļ
2				be present.	ļ
Z.				Hydrophytic	
				Vegetation	ļ
% Bare Ground in Herb Stratum % Cover	of Biotic Ci	rust		Present? Yes No	ļ
Remarks:				1	
No vogotation procent					ļ
nao vegetation present.					

Profile Desc	cription: (Describe t	o the depth	needed to docur	nent the ir	ndicator o	or confirm	the absence of	indicators.)	
Depth	Matrix		Redo	x Features					
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Rem	narks
0-12	2.5 YR 3/1							S	ilty Clay
									<u> </u>
					<u> </u>				<u> </u>
·							·		
				·					<u> </u>
¹ Type: C=C	oncentration. D=Deple	etion. RM=Re	educed Matrix.	² Location:	PL=Pore	e Linina. R	C=Root Channe	I. M=Matrix.	
Hydric Soil	Indicators: (Applica	ble to all LR	Rs, unless other	wise note	d.)	, J,	Indicators for	or Problematic H	ydric Soils ³ :
Histosol	(A1)		Sandy Red	ox (S5)			1 cm Mu	ck (A9) (LRR C)	
Histic E	pipedon (A2)		Stripped Ma	atrix (S6)			2 cm Mu	ck (A10) (LRR B))
Black H	istic (A3)		X Loamy Muc	ky Mineral	(F1)		Reduced	Vertic (F18)	
Hydroge	en Sulfide (A4)		Loamy Gley	ed Matrix	(F2)		Red Pare	ent Material (TF2))
Stratifie	d Layers (A5) (LRR C)	X Depleted M	atrix (F3)			Other (E:	xplain in Remarks	s)
1 cm Mu	uck (A9) (LRR D)		Redox Dark	s Surface (I	-6)				
Deplete	d Below Dark Surface	(A11)	Depleted D	ark Surface	e (F7)				
X Thick Da	ark Surface (A12)		Redox Dep	ressions (F	8)		2		
Sandy N	/lucky Mineral (S1)		Vernal Pool	s (F9)			°Indicators of	hydrophytic vege	etation and
Sandy C	Gleyed Matrix (S4)						wetland h	ydrology must be	present.
Restrictive	Layer (if present):								
Туре:			_						~
Depth (in	ches):		_				Hydric Soil P	resent? Yes	<u>×</u> No
Remarks:									
DD2 logated	on along of horm	Uudria aail	procent						
DF2 localed	i on slope of berni.	Hyunc Soli	present.						
HTUROLO	GT								

Wetland Hydrology Indicat	ors:		Secondary Indicators (2 or more required)
Primary Indicators (any one	ndicator is sufficie	ent)	Water Marks (B1) (Riverine)
Surface Water (A1)		Salt Crust (B11)	Sediment Deposits (B2) (Riverine)
High Water Table (A2)		Biotic Crust (B12)	Drift Deposits (B3) (Riverine)
Saturation (A3)		Aquatic Invertebrates (B13)	Drainage Patterns (B10)
Water Marks (B1) (Noni	iverine)	Hydrogen Sulfide Odor (C1)	Dry-Season Water Table (C2)
Sediment Deposits (B2)	(Nonriverine)	Oxidized Rhizospheres along Livi	ng Roots (C3) Thin Muck Surface (C7)
Drift Deposits (B3) (Non	riverine)	Presence of Reduced Iron (C4)	Crayfish Burrows (C8)
Surface Soil Cracks (B6)	Recent Iron Reduction in Plowed	Soils (C6) Saturation Visible on Aerial Imagery (C9)
X Inundation Visible on Ae	rial Imagery (B7)	$\underline{\times}$ Other (Explain in Remarks)	Shallow Aquitard (D3)
Water-Stained Leaves (39)		FAC-Neutral Test (D5)
Field Observations:			
Surface Water Present?	Yes No	Depth (inches):	
Water Table Present?	Yes No	Depth (inches):	
Saturation Present? (includes capillary fringe)	Yes No	Depth (inches):	Wetland Hydrology Present? Yes <u>×</u> No
Describe Recorded Data (str	eam gauge, monit	toring well, aerial photos, previous inspec	tions), if available:
Remarks:			
2005 Aerial Imagery and r	ainfall data. Hyc	drology present.	

Project/Site: Pond 20	City/County: Imperial Beach/San Diego Sampling Date: 6/30/08					
Applicant/Owner: Port of San Diego	State: CA Sampling Point: DP3/PP3					
Investigator(s): Keith Merkel/Rebecca Erickson/Eileen Maher	Section, Township, Range: S20; T18S; R2W					
Landform (hillslope, terrace, etc.): Toe of berm	_ Local relief (concave, convex, none): none Slope (%): ~5%					
Subregion (LRR): C	98743.57368 Long: <u>1793386.17497</u> Datum: <u>NAD83</u>					
Soil Map Unit Name: Huerhuero - Urban Land Complex	NWI classification: PEMh					
Are climatic / hydrologic conditions on the site typical for this time of y	ear? Yes <u>X</u> No (If no, explain in Remarks.)					
Are Vegetation No, Soil No, or Hydrology No significantly disturbed? Are "Normal Circumstances" present? Yes X No						
Are Vegetation <u>No</u> , Soil <u>No</u> , or Hydrology <u>No</u> naturally pr	roblematic? (If needed, explain any answers in Remarks.)					
SUMMARY OF FINDINGS – Attach site map showing	g sampling point locations, transects, important features, etc.					
Hydrophytic Vegetation Present? Yes NoX	Is the Sampled Area					
Hydric Soil Present? Yes X No	within a Wetland? Yes No X					
Wetland Hydrology Present? Yes <u>X</u> No						
Remarks:						
ACOE/CCC jurisdictional. Please refer to hydrology notes.						

	Absolute	Dominant	Indicator	Dominance Test worksheet:
<u>Tree Stratum</u> (Use scientific names.)	<u>% Cover</u>	Species?	Status	Number of Dominant Species
1				That Are OBL, FACW, or FAC: (A)
2				Total Number of Dominant
3				Species Across All Strata: (B)
4				
Total Cover:				Percent of Dominant Species
Sapling/Shrub Stratum	·			
1. <u></u>				Prevalence Index worksheet:
2.				Total % Cover of:Multiply by:
3.				OBL species x 1 =
4				FACW species x 2 =
5				FAC species x 3 =
J				FACU species x 4 =
Herb Stratum				
1				Column Tatalar (A)
2				
2				Prevalence Index = B/A =
3				Hydrophytic Vegetation Indicators:
4				Dominance Test is >50%
5				
6				$ = Prevalence index is \leq 3.0 $
7	<u> </u>		. <u> </u>	Morphological Adaptations" (Provide supporting data in Remarks or on a separate sheet)
8				Problematic Hydrophytic Vegetation ¹ (Explain)
Total Cover:				
Woody Vine Stratum				
1				be present
2				
Total Cover:				Hydrophytic
% Bare Ground in Herb Stratum % Cover	of Biotic C	rust		Present? Yes No X
Pomarke:	0. 2.040 0.			
Remarks.				
No vegetation present.				

opui	Matrix		Redox F	eatures				
inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks
-12	2.5 YR 2.5/1							Loamy sand
				·				
Type: C=C	Concentration. D=Depl	etion. RM=	Reduced Matrix. ² L	ocation:	PL=Pore	e Linina. R	C=Root Channel. M	=Matrix.
lydric Soi	I Indicators: (Applica	able to all I	RRs, unless otherwi	ise noted	d.)	<u>0</u> ,	Indicators for P	roblematic Hydric Soils ³ :
Histoso	ol (A1)		Sandy Redox	(S5)			1 cm Muck (A9) (LRR C)
Histic E	Epipedon (A2)		Stripped Matri	x (S6)			2 cm Muck (A10) (LRR B)
Black H	Histic (A3)		Loamy Mucky	Mineral	(F1)		Reduced Ve	ertic (F18)
X Hydrog	jen Sulfide (A4)		Loamy Gleyed	d Matrix (F2)		Red Parent	Material (TF2)
Stratifie	ed Layers (A5) (LRR C	;)	X Depleted Matr	ix (F3)			Other (Expla	ain in Remarks)
 1 cm M	luck (A9) (LRR D)	,	Redox Dark S	urface (F	6)			,
Deplete	ed Below Dark Surface	e (A11)	Depleted Dark	Surface	(F7)			
Thick D	Dark Surface (A12)	()	Redox Depres	sions (F	3)			
Sandy	Mucky Mineral (S1)		Vernal Pools ((F9)	- /		³ Indicators of hy	drophytic vegetation and
oundy	Gleved Matrix (S4)			10)			wetland hvdro	ploav must be present.
 Sandv								
Sandy Restrictive	Exayer (if present):							
Sandy Restrictive Type:	e Layer (if present):							
Sandy Restrictive Type: Depth (ii	• Layer (if present):						Hydric Soil Pres	ent? Yes <u>×</u> No _

l

Wetland Hydrology Indicators:		Secondary Indicators (2 or more required)
Primary Indicators (any one indicator is sufficier	nt)	Water Marks (B1) (Riverine)
Surface Water (A1)	× Salt Crust (B11)	Sediment Deposits (B2) (Riverine)
× High Water Table (A2)	Biotic Crust (B12)	Drift Deposits (B3) (Riverine)
Saturation (A3)	Aquatic Invertebrates (B13)	Drainage Patterns (B10)
Water Marks (B1) (Nonriverine)	Hydrogen Sulfide Odor (C1)	Dry-Season Water Table (C2)
Sediment Deposits (B2) (Nonriverine)	Oxidized Rhizospheres along Living Roc	ots (C3) Thin Muck Surface (C7)
Drift Deposits (B3) (Nonriverine)	Crayfish Burrows (C8)	
Surface Soil Cracks (B6)	Recent Iron Reduction in Plowed Soils (C6) Saturation Visible on Aerial Imagery (C9)
\underline{X} Inundation Visible on Aerial Imagery (B7)	X Other (Explain in Remarks)	Shallow Aquitard (D3)
Water-Stained Leaves (B9)		FAC-Neutral Test (D5)
Field Observations:		
Surface Water Present? Yes No	Depth (inches):	
Water Table Present? Yes <u>X</u> No	Depth (inches): <u>7-12</u>	
Saturation Present? Yes <u>No</u> (includes capillary fringe)	Depth (inches): Wetle	and Hydrology Present? Yes <u>×</u> No
Describe Recorded Data (stream gauge, monito	oring well, aerial photos, previous inspections),	if available:
Remarks:		
Hydrology present due to presence of wate	r in pit. 2005 Aerial Imagery and rainfall c	lata.

Project/Site: Pond 20	City/County: Imperial Beach/San Diego Sampling Date: 6/30/08					
Applicant/Owner: Port of San Diego	State: CA Sampling Point: DP4/PP4					
Investigator(s): Keith Merkel/Rebecca Erickson/Eileen Maher	Section, Township, Range: S20; T18S; R2W					
Landform (hillslope, terrace, etc.): Slope of berm	Local relief (concave, convex, none): none Slope (%): ~15%					
Subregion (LRR): C	3298744.56695 Long: 1793381.11994 Datum: NAD83					
Soil Map Unit Name: Huerhuero - Urban Land Complex	NWI classification: PEMh					
Are climatic / hydrologic conditions on the site typical for this time of	f year? Yes <u>X</u> No (If no, explain in Remarks.)					
Are Vegetation <u>No</u> , Soil <u>No</u> , or Hydrology <u>No</u> significantly disturbed? Are "Normal Circumstances" present? Yes <u>X</u> No						
Are Vegetation <u>No</u> , Soil <u>No</u> , or Hydrology <u>No</u> naturally	problematic? (If needed, explain any answers in Remarks.)					
SUMMARY OF FINDINGS – Attach site map showi	ng sampling point locations, transects, important features, etc.					
Hydrophytic Vegetation Present? Yes No	X Is the Sampled Area					
Hydric Soil Present? Yes No	\times within a Wetland? Yes No \times					
Wetland Hydrology Present? Yes No						
Remarks:						
DP4 is not located within a wetland. Non-jurisdictional.						

	Absolute	Dominant	Indicator	Dominance Test worksheet:	
Tree Stratum (Use scientific names.)	% Cover	Species?	Status	Number of Dominant Species	
1			. <u> </u>	That Are OBL, FACW, or FAC: (A)	
2			. <u> </u>	Total Number of Dominant	
3.				Species Across All Strata: (B)	
4				(-)	
Total Cover				Percent of Dominant Species	
Sapling/Shrub Stratum				That Are OBL, FACW, or FAC: (A/E	3)
1				Prevalence Index worksheet:	
2				Total % Cover of: Multiply by:	
3				$\frac{1}{OBL \text{ species}} \qquad x 1 =$	
3					
4			·		
5			<u> </u>	FAC species X 3 =	
Total Cover:				FACU species x 4 =	
Herb Stratum Mesembryanthemum podiflorum	10		FACU	UPL species x 5 =	
	10		1,400	Column Totals: (A) (B)
2					
3				Prevalence Index = B/A =	
4				Hydrophytic Vegetation Indicators:	
5				Dominance Test is >50%	
6.				Prevalence Index is ≤3.0 ¹	
7.				Morphological Adaptations ¹ (Provide supporting	
8			. <u> </u>	data in Remarks or on a separate sheet)	
Total Cavar	10%		·	Problematic Hydrophytic Vegetation ¹ (Explain)	
Woody Vine Stratum					
1 -				¹ Indicators of hydric soil and wetland hydrology must	
2				be present.	
Z		<u> </u>	·	Hydrophytic	
				Vegetation	
% Bare Ground in Herb Stratum90% % Cover	of Biotic Cr	rust		Present? Yes <u>No X</u>	
Remarks:					
No hydrophytic vegetation present.					

Depth	Matrix	Redox	Features						
(inches)	<u>Color (moist)</u> %	Color (moist)	% Type'	Loc ²	Texture		Remarks	;	<u> </u>
0-12	7.5 YR 3/3						Loam	iy sand	
12-20	7.5 YR 2.5/1						Loam	ly sand	
¹ Type: C=0	Concentration, D=Depletion, RN	1=Reduced Matrix. 2	Location: PL=Poi	e Lining, R	C=Root Chanr	nel, M=Matr	ix.		
Hydric Soi	I Indicators: (Applicable to a	I LRRs, unless otherv	vise noted.)		Indicators	for Proble	matic Hydri	c Soils ³ :	
Histoso Histic E Black H Hydrog Stratifie 1 cm M Deplete	ol (A1) Epipedon (A2) Histic (A3) gen Sulfide (A4) ed Layers (A5) (LRR C) fluck (A9) (LRR D) ed Below Dark Surface (A11)	Sandy Redox Stripped Mat Loamy Muck Loamy Gleye Depleted Mat Redox Dark S Depleted Dar	k (S5) rix (S6) y Mineral (F1) ed Matrix (F2) trix (F3) Surface (F6) rk Surface (F7)		1 cm M 2 cm M Reduce Red Pa Other (luck (A9) (L luck (A10) (ed Vertic (F arent Materi Explain in F	. RR C) (LRR B) 18) al (TF2) Remarks)		
THICK L	Mucky Mineral (S1)	Vernal Pools	(FQ)		³ Indicators	of hydroph	rtic vegetatic	n and	
Sandy	Gleved Matrix (S4)		(13)		wetland	hvdroloav r	nust be pres	sent.	
Restrictive	Layer (if present):					,			
Type:									
Depth (ii	nches):				Hydric Soil	Present?	Yes	No	×
Remarks:									
No evidenc	e of hydric soil to 12 inches	. 12 inches - 20 inche	es hydric.						
HYDROLO	DGY								
Wetland H	ydrology Indicators:				<u>Secon</u>	dary Indica	tors (2 or mo	ore require	<u>ed)</u>
Primary Ind	licators (any one indicator is suf	ficient)			W	ater Marks	(B1) (Riveri	ine)	
Surface	e Water (A1)	Salt Crust (I	B11)		S	ediment De	posits (B2) (Riverine)	
High W	/ater Table (A2)	Biotic Crust	(B12)		D	rift Deposits	s (B3) (Rive r	rine)	
Saturat	tion (A3)	Aquatic Inve	ertebrates (B13)		D	rainage Pat	terns (B10)		
Water	Marks (B1) (Nonriverine)	Hydrogen S	ulfide Odor (C1)		D	ry-Season \	Nater Table	(C2)	
Sedime	ent Deposits (B2) (Nonriverine) Oxidized Rh	nizospheres along	Living Roc	ots (C3) TI	nin Muck Sı	urface (C7)		
Drift De	eposits (B3) (Nonriverine)	Presence of	f Reduced Iron (C	4)	C	rayfish Burr	ows (C8)		

Primar	y Ine	dica	tor

High Water Table (A2)			Biotic Crust (B12)	Drift Deposits (B3) (Riverine)
Saturation (A3)			Aquatic Invertebrates (B13)	Drainage Patterns (B10)
Water Marks (B1) (Nonriverine)			Hydrogen Sulfide Odor (C1)	Dry-Season Water Table (C2)
Sediment Deposits (B2) (Nonriverine)			Oxidized Rhizospheres along	Living Roots (C3) Thin Muck Surface (C7)
Drift Deposits (B3) (Nonriverine)			Presence of Reduced Iron (C	4) Crayfish Burrows (C8)
Surface Soil Cracks (B6)			Recent Iron Reduction in Plov	wed Soils (C6) Saturation Visible on Aerial Imagery (C9)
Inundation Visible on Aerial Imagery (B7)			Other (Explain in Remarks)	Shallow Aquitard (D3)
Water-Stained Leaves (B9)			FAC-Neutral Test (D5)
Field Observations:				
Surface Water Present?	Yes	No	Depth (inches):	
Water Table Present?	Yes	No	Depth (inches):	
Saturation Present? (includes capillary fringe)	Yes	No	Depth (inches):	Wetland Hydrology Present? Yes No
Describe Recorded Data (st	ream gauge,	monitori	ng well, aerial photos, previous in	spections), if available:
Remarks:				
DD nit fills with water at 20) inches			
pr nis with water at 20	inches.			

Project/Site: Pond 20	City/County: Imperi	al Beach/San Diego	Sampling Date: 6/30/08			
Applicant/Owner: Port of San Diego		State: CA	Sampling Point: DP5/PP5			
Investigator(s): Keith Merkel/Rebecca Erickson/Eileen Mahe	er Section, Township,	Range: <u>S20;</u> T18S; R2W				
Landform (hillslope, terrace, etc.): Slope of berm	Local relief (concav	re, convex, none): none	Slope (%): ~15%			
Subregion (LRR): CLa	: 6298743.66277	Long: 1793380.56664	4 Datum: NAD83			
Soil Map Unit Name: Huerhuero - Urban Land Complex		NWI classifie	_{cation:} PEMh			
Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No (If no, explain in Remarks.) Are Vegetation No, Soil No, or Hydrology No significantly disturbed? Are Vegetation No, Soil No, or Hydrology No naturally problematic? (If needed, explain any answers in Remarks.)						
Hydrophytic Vegetation Present? Yes No			s, important reatures, etc.			
Hydric Soil Present? Yes No	X Is the Samp	led Area	No X			

Hydric Soil Present?	Yes	No <u>X</u>	within a Wetland?	Ves	No	X
Wetland Hydrology Present?	Yes	No X		103	NO	
Remarks:						
Non-jurisdictional.						

	Absolute	Dominant	Indicator	Dominance Test worksheet:
Tree Stratum (Use scientific names.)	% Cover	Species?	Status	Number of Dominant Species
1				That Are OBL, FACW, or FAC: (A)
2				Tatal Number of Dominant
3.	_	_		Species Across All Strata: (B)
Δ			·	
Total Cover			·	Percent of Dominant Species
Sapling/Shrub Stratum				That Are OBL, FACW, or FAC: (A/B)
<u></u>				Prevalence Index worksheet:
1 ?			·	Total % Cover of: Multiply by:
2				
3			·	
4			·	FACW species x 2
5				FAC species x 3 =
Total Cover:				FACU species x 4 =
Herb Stratum Mesombryanthemum podiflorum	50	V		UPL species x 5 =
			FACO	Column Totals: (A) (B)
2			. <u> </u>	
3			. <u> </u>	Prevalence Index = B/A =
4				Hydrophytic Vegetation Indicators:
5				Dominance Test is >50%
6.				Prevalence Index is ≤3.0 ¹
7				Morphological Adaptations ¹ (Provide supporting
۰ ۱۵			. <u> </u>	data in Remarks or on a separate sheet)
o	50%			Problematic Hydrophytic Vegetation ¹ (Explain)
Woodv Vine Stratum				
1 -				¹ Indicators of hydric soil and wetland hydrology must
י <u></u> ז				be present.
Z				Hydronhytic
				Vegetation
% Bare Ground in Herb Stratum <u>50%</u> % Cover	of Biotic Cr	rust		Present? Yes No X
Remarks:				
No hydrophytic vegetation present.				

Depth	Matrix	Red	ox Features	2					
(inches)	Color (moist) %	Color (moist)	<u>%</u> Type'	Loc ²	Texture		Remarks	S	
0-20	7.5 YR 5/4						Sanc	1	
	· ·								<u> </u>
	·								
Type: C=C Hydric Soil	Concentration, D=Depletion, RM= Indicators: (Applicable to all L	Reduced Matrix. .RRs, unless othe	² Location: PL=Por erwise noted.)	e Lining, F	C=Root Chann Indicators f	el, M=Matr i or Proble i	ix. matic Hydri	ic Soils ³ :	
Histoso	(A1)	Sandy Rec	lox (S5)		1 cm M	uck (A9) (L	RR C)		
Histic E	pipedon (A2)	Stripped M	atrix (S6)		2 cm M	uck (A10) ((LRR B)		
Black H	listic (A3)	Loamy Mu	cky Mineral (F1)		Reduced Vertic (F18)				
Hydrog	en Sulfide (A4)	Loamy Gle	yed Matrix (F2)		Red Parent Material (TF2)				
Stratifie	ed Layers (A5) (LRR C)	Depleted N	Aatrix (F3)		Other (Explain in Remarks)				
1 cm M	uck (A9) (LRR D)	Redox Dar	k Surface (F6)				,		
Deplete	ed Below Dark Surface (A11)	Depleted D	Dark Surface (F7)						
Thick D	oark Surface (A12)	Redox Dep	pressions (F8)						
Sandy I	Mucky Mineral (S1)	Vernal Poo	ols (F9)		³ Indicators of	of hydrophy	tic vegetatio	on and	
Sandy	Gleyed Matrix (S4)				wetland I	hydrology r	nust be pre	sent.	
Restrictive	Layer (if present):								
Туре:									
Depth (ir	nches):				Hydric Soil I	Present?	Yes	No	<u>×</u>
Remarks:									
No hydric s	oil present.								
HYDROLC	DGY								
Wetland Hy	/drology Indicators:				Second	dary Indica	tors (2 or m	ore require	ed)
Primary Ind	icators (any one indicator is suffic	ient)			Wa	ater Marks	(B1) (River	ine)	
Surface	e Water (A1)	Salt Crus	t (B11)		Se	diment De	posits (B2)	(Riverine)	
High W	ater Table (A2)	Biotic Cru	ıst (B12)		Dr	ift Deposits	s (B3) (Rive	rine)	
Saturat	ion (A3)	Aquatic Ir	nvertebrates (B13)		Dr	ainage Pat	terns (B10)		
Water M	Marks (B1) (Nonriverine)	Hydroger	Sulfide Odor (C1)		Dr	y-Season \	Nater Table	(C2)	
Sedime	ent Deposits (B2) (Nonriverine)	Oxidized	Rhizospheres along	Living Roo	ots (C3) Th	in Muck Su	urface (C7)		
Drift De	eposits (B3) (Nonriverine)	Presence	of Reduced Iron (C4	4)	Crayfish Burrows (C8)				

 Drift Deposits (B3) (Nonriv
 Surface Soil Cracks (B6)

 Inundation Visible on Aerial Imagery (B7)
Water-Stained Leaves (B9)

Inundation Visible on A	erial Imager	y (B7)	Shallow Aquitard (D3)					
Water-Stained Leaves ((B9)		FAC-Neutral Test (D5)	FAC-Neutral Test (D5)				
Field Observations:								
Surface Water Present?	Yes	No	Depth (inches):					
Water Table Present?	Yes	No	Depth (inches):					
Saturation Present? (includes capillary fringe)	Yes	No	Depth (inches):	Wetland Hydrology Present? Yes NoX				
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:								
Domorko								
Remarks.								
No evidence of hydrology.								

Recent Iron Reduction in Plowed Soils (C6)

____ Saturation Visible on Aerial Imagery (C9)

Project/Site: Pond 20	City/County: Imperi	al Beach/San Diego	Sampling Date: 6/30/08			
Applicant/Owner: Port of San Diego		State: CA	Sampling Point: DP6/PP6			
Investigator(s): Keith Merkel/Rebecca Erickson/Eileen Maher	Section, Township,	Range: <u>S20;</u> T18S; R2W				
Landform (hillslope, terrace, etc.): Toe of berm	Local relief (concav	/e, convex, none): <u>none</u>	Slope (%): <u>~15%</u>			
Subregion (LRR): C Lat:	6298897.20044	Long: <u>1793380.51311</u>	I Datum: NAD83			
Soil Map Unit Name: Huerhuero - Urban Land Complex		NWI classific	cation: PEMh			
Are climatic / hydrologic conditions on the site typical for this time of year? Yes <u>X</u> No (If no, explain in Remarks.) Are Vegetation <u>No</u> , Soil <u>No</u> , or Hydrology <u>No</u> significantly disturbed? Are "Normal Circumstances" present? Yes <u>X</u> No (If needed, explain any answers in Remarks.)						
	×					
Hydrophytic Vegetation Present? Yes No Hydric Soil Present? Yes X No Wetland Hydrology Present? Yes X No	Is the Samp within a We	led Area tland? Yes	No <u>X</u>			

Remarks:

ACOE/CCC jurisdictional.

	Absolute	Dominant	Indicator	Dominance Test worksheet:	
Tree Stratum (Use scientific names.)	% Cover	Species?	Status	Number of Dominant Species	
1				That Are OBL, FACW, or FAC:	(A)
2				Total Number of Dominant	
3.				Species Across All Strata:	(B)
4.					(-)
Total Cover:			. <u> </u>	Percent of Dominant Species	
Sapling/Shrub Stratum	·			Inat Are OBL, FACW, or FAC:	(A/B)
1				Prevalence Index worksheet:	
2				Total % Cover of: Multiply by:	
3				OBL species x 1 =	
۵	<u> </u>		·	$EACW$ species $x^2 =$	
4				$FAC appendix X^2 = $	
5			<u> </u>		
lotal Cover:				FACU species x 4 =	
				UPL species x 5 =	
1:				Column Totals: (A)	(B)
2			·	Brovelence Index - R/A -	
3			·		
4			. <u></u>	Hydrophytic vegetation indicators:	
5				Dominance Test is >50%	
6				Prevalence Index is ≤3.0 ⁺	
7				Morphological Adaptations ¹ (Provide supp	orting
8				data in Remarks or on a separate shee	et)
Total Cover:				Problematic Hydrophytic Vegetation' (Exp	olain)
Woody Vine Stratum					
1				¹ Indicators of hydric soil and wetland hydrolog	y must
2				be present.	
Total Cover:				Hydrophytic	
				Vegetation	
% Bare Ground in Herb Stratum % Cover	of Biotic C	rust		Present? Yes <u>No </u>	-
Remarks:					
No vegetation present					

epth	Matrix		Redox Features							
inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Rema	irks	
-12	7.5 YR 2.5/1							Lo	amy Sand	
Type: C=	Concentration, D=Depl	etion, RM=	Reduced Matrix.	² Location	: PL=Por	e Lining, F	RC=Root Channel, M	-Matrix.		
ydric Soi	I Indicators: (Applica	able to all	LRRs, unless other	wise note	ed.)		Indicators for Pr	oblematic Hy	dric Soils ³ :	
Histos	ol (A1)		Sandy Redo	x (S5)			1 cm Muck (/	A9) (LRR C)		
Histic I	Epipedon (A2)		Stripped Mat	Stripped Matrix (S6)			2 cm Muck (A10) (LRR B)			
Black I	Histic (A3)		Loamy Muck	y Minera	l (F1)		Reduced Vertic (F18)			
X Hvdroo	aen Sulfide (A4)		Loamy Gleve	Loamy Gleyed Matrix (F2)			Red Parent Material (TF2)			
Stratifi	ed Lavers (A5) (LRR C	:)	X Depleted Ma	X Depleted Matrix (F3)			Other (Explain in Remarks)			
1 cm M	Auck (A9) (I RR D)	· /	Bedox Dark	Redox Dark Surface (F6)						
Denlet	ed Below Dark Surface	Δ11)	Depleted Da	rk Surfac	e (F7)					
Dopiet	Dark Surface (A12)	, (, (, (,))	Beday Depr	accione (l	=8)					
Sandv	Mucky Mineral (S1)		Vernal Bools (E9)				³ Indicators of hydrophytic vegetation and			
Sandy	Gleved Matrix (S1)						wetland bydrology must be present			
	a Laver (if present):							logy must be p	ieseni.	
actrictive	Layer (il present).									
restrictive									\sim	
Type:							Hydric Soil Prese	ent? Yes	<u>^</u> No_	
Type: Depth (i	nches):									
Type: Depth (i	nches):									

Wetland Hydrology Indicators:		Secondary Indicators (2 or more required)
Primary Indicators (any one indicator is sufficient)	Water Marks (B1) (Riverine)
Surface Water (A1)	X Salt Crust (B11)	Sediment Deposits (B2) (Riverine)
X High Water Table (A2)	Biotic Crust (B12)	Drift Deposits (B3) (Riverine)
Saturation (A3)	Aquatic Invertebrates (B13)	Drainage Patterns (B10)
Water Marks (B1) (Nonriverine)	Hydrogen Sulfide Odor (C1)	Dry-Season Water Table (C2)
Sediment Deposits (B2) (Nonriverine)	Oxidized Rhizospheres along Livir	ng Roots (C3) Thin Muck Surface (C7)
Drift Deposits (B3) (Nonriverine)	Presence of Reduced Iron (C4)	Crayfish Burrows (C8)
Surface Soil Cracks (B6)	Recent Iron Reduction in Plowed S	Soils (C6) Saturation Visible on Aerial Imagery (C9)
\underline{X} Inundation Visible on Aerial Imagery (B7)	X Other (Explain in Remarks)	Shallow Aquitard (D3)
Water-Stained Leaves (B9)		FAC-Neutral Test (D5)
Field Observations:		
Surface Water Present? Yes No	Depth (inches):	
Water Table Present? Yes X No	Depth (inches): <u>7-12"</u>	
Saturation Present? Yes No (includes capillary fringe)	Depth (inches):	Wetland Hydrology Present? Yes <u>×</u> No
Describe Recorded Data (stream gauge, monitor	ing well, aerial photos, previous inspect	tions), if available:
Remarks:		
Hydrology present.		

Project/Site: Pond 20	City/County: Imper	ial Beach/San Diego	Sampling Date: 6/30/08
Applicant/Owner: Port of San Diego		State: CA	Sampling Point: DP7/PP7
Investigator(s): Keith Merkel/Rebecca Erickson/Eileen Mah	er Section, Township,	Range: <u>S20; T18S; R2W</u>	
Landform (hillslope, terrace, etc.): Toe of berm	Local relief (conca	ve, convex, none): <u>none</u>	Slope (%): ~25%
Subregion (LRR): C	at: <u>6298892.01797</u>	Long: <u>1793377.33932</u>	Datum: NAD83
Soil Map Unit Name: Huerhuero - Urban Land Complex		NWI classific	ation: PEMh
Are climatic / hydrologic conditions on the site typical for this time Are Vegetation <u>No</u> , Soil <u>No</u> , or Hydrology <u>No</u> signifi Are Vegetation <u>No</u> , Soil <u>No</u> , or Hydrology <u>No</u> natura SUMMARY OF FINDINGS – Attach site map sho	e of year? Yes <u>X</u> N icantly disturbed? A ally problematic? (wing sampling poir	lo (If no, explain in R Are "Normal Circumstances" p If needed, explain any answe nt locations, transects	emarks.) resent? Yes <u>×</u> No rs in Remarks.) , important features, etc.
Hydrophytic Vegetation Present? Yes No Hydric Soil Present? Yes No Wetland Hydrology Present? Yes No Remarks: Yes No	X Is the Samp x within a We	oled Area etland? Yes	No <u> X</u>
DP7 is not located within a wetland. Non-jurisdictional.			

	Absolute	Dominant	Indicator	Dominance Test worksheet:	
Tree Stratum (Use scientific names.)	% Cover	Species?	Status	Number of Dominant Species	
1			. <u> </u>	That Are OBL, FACW, or FAC: (A)	
2			. <u> </u>	Total Number of Dominant	
3.				Species Across All Strata: (B)	
4				(-)	
Total Cover				Percent of Dominant Species	
Sapling/Shrub Stratum				That Are OBL, FACW, or FAC: (A/E	3)
1				Prevalence Index worksheet:	
2				Total % Cover of: Multiply by:	
3				$\frac{1}{OBL \text{ species}} \qquad x 1 =$	
3					
4			·		
5			<u> </u>	FAC species X 3 =	
Total Cover:				FACU species x 4 =	
Herb Stratum Mesembryanthemum podiflorum	10		FACU	UPL species x 5 =	
	10		1,400	Column Totals: (A) (B)
2					
3				Prevalence Index = B/A =	
4				Hydrophytic Vegetation Indicators:	
5				Dominance Test is >50%	
6.				Prevalence Index is ≤3.0 ¹	
7.				Morphological Adaptations ¹ (Provide supporting	
8			. <u> </u>	data in Remarks or on a separate sheet)	
Total Cavar	10%		·	Problematic Hydrophytic Vegetation ¹ (Explain)	
Woody Vine Stratum					
1 -				¹ Indicators of hydric soil and wetland hydrology must	
2				be present.	
Z		<u> </u>	·	Hydrophytic	
				Vegetation	
% Bare Ground in Herb Stratum90% % Cover	of Biotic Cr	rust		Present? Yes <u>No X</u>	
Remarks:					
No hydrophytic vegetation present.					

Profile Des	scription: (Describe t	o the depth n	eeded to docu	ment the ir	ndicator	or confirn	n the absence of indi	cators.)		
Depth	Matrix		Redo	x Features	; 1	. 2		_		
(inches)	<u>Color (moist)</u>		Color (moist)	%	Type	Loc	Texture	Remai	rks	
0-12	7.5 YR 3/3							Loa	amy sand	
12-20	7.5 YR 2.5/1			<u> </u>				Loa	imy sand	
¹ Type: C=0	Concentration, D=Depl	etion, RM=Re	duced Matrix.	² Location:	PL=Por	e Lining, F	C=Root Channel, M=I	Matrix.		
Hydric Soi	il Indicators: (Applica	ble to all LRF	Rs, unless othe	rwise note	ed.)		Indicators for Pro	blematic Hyd	Iric Soils ³ :	
Histoso Histic E Black H Hydrog Stratifie Deplete Thick I Sandy Sandy	ol (A1) Epipedon (A2) Histic (A3) gen Sulfide (A4) ed Layers (A5) (LRR C Muck (A9) (LRR D) ted Below Dark Surface Dark Surface (A12) Mucky Mineral (S1) Gleyed Matrix (S4)) • (A11)	 Sandy Red Stripped Ma Loamy Muc Loamy Gleg Depleted M Redox Darl Depleted D Redox Dep Vernal Poo 	ox (S5) atrix (S6) cky Mineral yed Matrix latrix (F3) < Surface (I ark Surface ressions (F ls (F9)	(F1) (F2) F6) ∋ (F7) 8)		1 cm Muck (As 2 cm Muck (A Reduced Verti Red Parent Ma Other (Explain ³ Indicators of hydro wetland hydrology	9) (LRR C) 10) (LRR B) c (F18) aterial (TF2) in Remarks) ophytic vegeta	tion and resent.	
Restrictive	e Layer (if present):									
Type: Depth (i	inches):		-				Hydric Soil Presen	t? Yes	No	×
Remarks:										
12 inches -	- 20 inches hydric. I	No evidence	of hydric soil t	o 12 inche	es.					
HYDROLO	OGY									
Wetland H	lydrology Indicators:						Secondary In	dicators (2 or	more require	ed)
Drimony Ind	dicators (any one indice	tor is sufficion	(+)				Water Ma	arke (B1) (Piv	orino)	

welland Hydrology mulcal	015.				Secondary indicators (2 or more required)
Primary Indicators (any one	ndicator is s	ufficient)			Water Marks (B1) (Riverine)
Surface Water (A1)		-	X Salt Crust (B11)		Sediment Deposits (B2) (Riverine)
High Water Table (A2)		-	Biotic Crust (B12)		Drift Deposits (B3) (Riverine)
X Saturation (A3)		-	Aquatic Invertebrates (B13)		Drainage Patterns (B10)
Water Marks (B1) (Noni	iverine)	-	Hydrogen Sulfide Odor (C1)		Dry-Season Water Table (C2)
Sediment Deposits (B2)	(Nonriverin	e) _	Oxidized Rhizospheres along	Living Roots (C3)	Thin Muck Surface (C7)
Drift Deposits (B3) (Non	riverine)	-	Presence of Reduced Iron (C4	4)	Crayfish Burrows (C8)
Surface Soil Cracks (B6)	-	Recent Iron Reduction in Plov	ved Soils (C6)	Saturation Visible on Aerial Imagery (C9)
Inundation Visible on Ae	rial Imagery	(B7)	Other (Explain in Remarks)		Shallow Aquitard (D3)
Water-Stained Leaves (39)				FAC-Neutral Test (D5)
Field Observations:					
Surface Water Present?	Yes	No	Depth (inches):		
Water Table Present?	Yes	No	Depth (inches):	_	
Saturation Present? (includes capillary fringe)	Yes	No	Depth (inches):	Wetland Hy	drology Present? Yes <u>X</u> No
Describe Recorded Data (str	eam gauge,	monitorii	ng well, aerial photos, previous ins	spections), if availa	able:
Remarks:					
Pit saturated to surface (m	ore than D	P4)			

Project/Site: Pond 20	City/Cou	_{inty:} Imperial Beac	h/San Diego	Sampling Date: 6/	/30/08
Applicant/Owner: Port of San Diego			State: CA	Sampling Point: D	P8/PP8
Investigator(s): Keith Merkel/Rebecca Erickson/Eileen Mah	er Section	, Township, Range:	S20; T18S; R2W		
Landform (hillslope, terrace, etc.): <u>slope</u>	Local re	elief (concave, conve	ex, none): <u>none</u>	Slop	e (%): <u>~25%</u>
Subregion (LRR): C La	_{it:} <u>6298895.2</u>	9951 Lor	_{ig:} 1793378.5716	6 Datum	n: NAD83
Soil Map Unit Name: Huerhuero - Urban Land Complex			NWI classifie	cation: PEMh	
Are climatic / hydrologic conditions on the site typical for this time Are Vegetation <u>No</u> , Soil <u>No</u> , or Hydrology <u>No</u> signific Are Vegetation <u>No</u> , Soil <u>No</u> , or Hydrology <u>No</u> natura	e of year? Yes cantly disturbe ally problemation	Are "No d? Are "Norn c? (If needed	_ (If no, explain in F nal Circumstances" , explain any answe	Remarks.) present? Yes ers in Remarks.)	<u>×</u> _{No}
Sommar TOF FINDINGS - Attach site map sho	wing samp	ing point local			itures, etc.
Hydrophytic Vegetation Present? Yes No Hydric Soil Present? Yes No Wetland Hydrology Present? Yes No	$\frac{x}{x}$	s the Sampled Area vithin a Wetland?	Yes	No X	

Remarks:

Non-jurisdictional.

	Absolute	Dominant	Indicator	Dominance Test worksheet:
Tree Stratum (Use scientific names.)	% Cover	Species?	Status	Number of Dominant Species
1				That Are OBL, FACW, or FAC: (A)
2				Total Number of Dominant
3.				Species Across All Strata: (B)
4				(-)
Total Cover			·	Percent of Dominant Species
Sapling/Shrub Stratum				That Are OBL, FACW, or FAC: (A/B)
1				Prevalence Index worksheet:
2			·	Total % Cover of: Multiply by:
3				OBI species x 1 =
3				
4				
5				FAC species X 3
Total Cover:				FACU species x 4 =
A Mesembryanthemum nodiflorum	50	Yes	FACU	UPL species x 5 =
		100	-17100	Column Totals: (A) (B)
2				
3				Prevalence Index = B/A =
4				Hydrophytic Vegetation Indicators:
5				Dominance Test is >50%
6				Prevalence Index is ≤3.0 ¹
7.				Morphological Adaptations ¹ (Provide supporting
8				data in Remarks or on a separate sheet)
Total Cover	50%			Problematic Hydrophytic Vegetation ¹ (Explain)
Woody Vine Stratum	·			
1.				¹ Indicators of hydric soil and wetland hydrology must
2				be present.
Total Cover:				Hydrophytic
% Bare Ground in Herb Stratum50% % Cover	of Biotic C	rust		Present? Yes <u>No X</u>
Remarks:				
No budrophytic vocatation arrest				
ino nyurophytic vegetation present.				

Depth	Matrix	Redo	x Features	0					
(inches)	Color (moist) %	Color (moist)	<u>% Type¹</u>	Loc ²	Texture		Remark	S	
0-20	7.5 YR 5/4		<u> </u>				Sand	b	
	·								
¹ Type: C=C	Concentration, D=Depletion, R	M=Reduced Matrix.	² Location: PL=Por	e Lining, R	C=Root Cha	annel, M=Matr	ix.		
Hydric Soil	Indicators: (Applicable to a	III LRRs, unless othe	rwise noted.)		Indicato	rs for Proble	matic Hydr	ic Soils ³ :	
Histoso Histic E Black H Hydrog Stratifie 1 cm M Deplete Chick D	I (A1) ipipedon (A2) listic (A3) en Sulfide (A4) ed Layers (A5) (LRR C) uck (A9) (LRR D) ed Below Dark Surface (A11) Park Surface (A12)	Sandy Red Stripped Ma Loamy Muc Loamy Gley Depleted M Redox Dark Depleted D Redox Dep	ox (S5) atrix (S6) ky Mineral (F1) yed Matrix (F2) atrix (F3) & Surface (F6) ark Surface (F7) ressions (F8)		1 cn 2 cn Red Othe	n Muck (A9) (I n Muck (A10) uced Vertic (F Parent Mater er (Explain in I	LRR C) (LRR B) (18) (al (TF2) Remarks)		
Sandy i Sandy (Gleved Matrix (S4)		IS (F9)		wetla	nd hydrology	nust be pre	sent	
Restrictive	Layer (if present):				- Wolla	ind right ology		00111.	
Type:									
Depth (ir	nches):				Hydric S	oil Present?	Yes	No	×
Remarks: No hydric so	oil present.								
HYDROLC	DGY								
Wetland Hy	drology Indicators:				Sec	condary Indica	tors (2 or m	ore require	ed)
Primary Indi	icators (any one indicator is su	ifficient)				Water Marks	(B1) (Rive	rine)	
Surface	e Water (A1)	Salt Crust	(B11)			Sediment De	posits (B2)	(Riverine)	
High W	ater Table (A2)	Biotic Crus	st (B12)			Drift Deposit	s (B3) (Rive	rine)	
Saturat	ion (A3)	Aquatic In	vertebrates (B13)			Drainage Pa	tterns (B10)		
Water M	Marks (B1) (Nonriverine)	Hydrogen	Sulfide Odor (C1)			Dry-Season	Water Table	e (C2)	
Sedime	ent Deposits (B2) (Nonriverine	e) Oxidized F	Rhizospheres along	Living Roo	ots (C3)	Thin Muck S	urface (C7)		
Drift De	posits (B3) (Nonriverine)	Presence	of Reduced Iron (C4	4)		Crayfish Bur	rows (C8)		

___ Drift Deposits (B3) (**Nonr**i ___ Surface Soil Cracks (B6)

 Inundation Visible on Aerial Imagery
 Water-Stained Leaves (B9)

Inundation Visible on Ae	rial Imagery	/ (B7)	Other (Explain in Remarks)	Shallow Aquitard (D3)		
Water-Stained Leaves (E	39)			FAC-Neutral Test (D5)		
Field Observations:						
Surface Water Present?	Yes	No	Depth (inches):			
Water Table Present?	Yes	No	Depth (inches):			
Saturation Present? (includes capillary fringe)	Yes	No	Depth (inches):	Wetland Hydrology Present? Yes	No	<u>×</u>
Describe Recorded Data (stre	eam gauge	, monitorir	ng well, aerial photos, previous ir	nspections), if available:		
Remarks:						
No evidence of hydrology.						

____ Recent Iron Reduction in Plowed Soils (C6)

____ Saturation Visible on Aerial Imagery (C9)

Project/Site: Pond 20	_ City/County: Imperial Beach/San Diego Sampling Date: 6/30/08
Applicant/Owner: Port of San Diego	State: CA Sampling Point: DP9/PP9
Investigator(s): Keith Merkel/Rebecca Erickson/Eileen Maher	_ Section, Township, Range: <u>S20; T18S; R2W</u>
Landform (hillslope, terrace, etc.): Salt panne	_ Local relief (concave, convex, none): none Slope (%): 0%
Subregion (LRR): C Lat: 62	298912.48400 Long: <u>1793485.82589</u> Datum: <u>NAD83</u>
Soil Map Unit Name: Huerhuero - Urban Land Complex	NWI classification: PEMh
Are climatic / hydrologic conditions on the site typical for this time of y	year? YesX No (If no, explain in Remarks.)
Are Vegetation <u>No</u> , Soil <u>No</u> , or Hydrology <u>No</u> significantl	ly disturbed? Are "Normal Circumstances" present? Yes <u>×</u> No
Are Vegetation <u>No</u> , Soil <u>No</u> , or Hydrology <u>No</u> naturally p	roblematic? (If needed, explain any answers in Remarks.)
SUMMARY OF FINDINGS – Attach site map showin	g sampling point locations, transects, important features, etc.
Hydrophytic Vegetation Present? Yes NoX	Is the Sampled Area
Hydric Soil Present? Yes X No	within a Wetland? Yes No X
Wetland Hydrology Present? Yes <u>X</u> No	
Remarks:	
ACOE/CCC jurisdictional. Please refer to hydrology notes.	

	Absolute	Dominant	Indicator	Dominance Test worksheet:
<u>Tree Stratum</u> (Use scientific names.)	<u>% Cover</u>	Species?	Status	Number of Dominant Species
1				That Are OBL, FACW, or FAC: (A)
2				Total Number of Dominant
3				Species Across All Strata: (B)
4				
Total Cover:				Percent of Dominant Species
Sapling/Shrub Stratum	·			
1. <u>-</u>				Prevalence Index worksheet:
2.				Total % Cover of:Multiply by:
3.				OBL species x 1 =
4				FACW species x 2 =
5				FAC species x 3 =
J				FACU species x 4 =
Herb Stratum				
1				Column Tatalar (A)
2				
2				Prevalence Index = B/A =
3				Hydrophytic Vegetation Indicators:
4				Dominance Test is >50%
5				
6				$ = Prevalence index is \leq 3.0 $
7	<u> </u>		·	Morphological Adaptations" (Provide supporting data in Remarks or on a separate sheet)
8				Problematic Hydrophytic Vegetation ¹ (Explain)
Total Cover:				
Woody Vine Stratum				
1				be present
2				
Total Cover:				Hydrophytic
% Bare Ground in Herb Stratum % Cover	of Biotic C	rust		Present? Yes No X
Pomarke:	0. 2.040 0.			
Remarks.				
No vegetation present.				

Profile Des	cription: (Describe t	o the depth	needed to docu	ment the i	ndicator	or confirm	the absence of in	dicators.)
Depth (in the set)	<u>Matrix</u>	0/	Redo	<u>x Features</u>	5	L = = 2	Tautura	Demonster
<u>(incries)</u> 0-5	2.5 YR 4/1		Color (moist)	%	Туре	LOC		Silty Clay
5-12	2.5 YR 2.5/1	<u> </u>					·	Silty Clay
				- <u> </u>			 	
¹ Type: C=C	Concentration, D=Depl	etion, RM=Re	educed Matrix.	² Location	: PL=Pore	e Lining, R	C=Root Channel, M	/I=Matrix.
Hydric Soil	Indicators: (Applica	ble to all LR	Rs, unless othe	rwise note	ed.)		Indicators for F	Problematic Hydric Soils ³ :
Histoso	l (A1)		Sandy Red	ox (S5)			1 cm Muck	(A9) (LRR C)
Histic E	pipedon (A2)		Stripped M	atrix (S6)			2 cm Muck	(A10) (LRR B)
Black H	listic (A3)		Loamy Mu	cky Minera	l (F1)		Reduced Ve	ertic (F18)
Hvdroa	en Sulfide (A4)		Loamv Gle	ved Matrix	(F2)		Red Parent	Material (TF2)
Stratifie	d Layers (A5) (LRR C)	× Depleted N	latrix (F3)	~ /		Other (Expl	ain in Remarks)
1 cm M	uck (A9) (LRR D)		Redox Dar	k Surface (F6)			
Deplete	ed Below Dark Surface	(A11)	Depleted D	ark Surfac	e (F7)			
	Ark Surface (A12)				0)		³ Indicators of hu	draphytic versitian and
Sandy (Gleyed Matrix (S4)		vernal Poo	IS (F9)			wetland hydr	ology must be present.
Restrictive	Layer (if present):							
Type:			_					
Depth (ir	iches):		_				Hydric Soil Pres	ent? Yes <u>×</u> No
Remarks:								
Hydric soil p	present.							
HYDROLC)GY							
Wetland Hy	drology Indicators:						Secondary	Indicators (2 or more required)

Wetland Hydrology Indicators:		Secondary Indicators (2 or more required)
Primary Indicators (any one indicator is sufficient	t)	Water Marks (B1) (Riverine)
Surface Water (A1)	X Salt Crust (B11)	Sediment Deposits (B2) (Riverine)
High Water Table (A2)	Biotic Crust (B12)	Drift Deposits (B3) (Riverine)
Saturation (A3)	Aquatic Invertebrates (B13)	Drainage Patterns (B10)
Water Marks (B1) (Nonriverine)	Hydrogen Sulfide Odor (C1)	Dry-Season Water Table (C2)
Sediment Deposits (B2) (Nonriverine)	Oxidized Rhizospheres along Livir	ng Roots (C3) Thin Muck Surface (C7)
Drift Deposits (B3) (Nonriverine)	Presence of Reduced Iron (C4)	Crayfish Burrows (C8)
Surface Soil Cracks (B6)	Recent Iron Reduction in Plowed S	Soils (C6) Saturation Visible on Aerial Imagery (C9)
\underline{X} Inundation Visible on Aerial Imagery (B7)	X Other (Explain in Remarks)	Shallow Aquitard (D3)
Water-Stained Leaves (B9)		FAC-Neutral Test (D5)
Field Observations:		
Surface Water Present? Yes No	Depth (inches):	
Water Table Present? Yes No _	Depth (inches):	
Saturation Present? Yes No (includes capillary fringe)	Depth (inches):	Wetland Hydrology Present? Yes No
Describe Recorded Data (stream gauge, monitor	ring well, aerial photos, previous inspect	tions), if available:
Remarks:		
2005 Aerial Imagery and rainfall data. Hydro	ology present.	

Project/Site: Pond 20		_ City/County: Imperial Beach/San Diego Sampling Date: 6/30/08						
Applicant/Owner: Port of San Diego			State: CA	_ Sampling Point: DP10/PP10				
Investigator(s): Keith Merkel/Rebecca Erickson/Eileen	Maher	Section, Township, Range: S20; T18S; R2W						
Landform (hillslope, terrace, etc.): salt panne		_ Local relief (conca	ve, convex, none): <u>convex</u>	Slope (%): <u>0%</u>				
Subregion (LRR): C	Lat: 62	98987.44067	Long: <u>1793519.612</u>	60.82589 Datum: NAD83				
Soil Map Unit Name: Huerhuero - Urban Land Complex	x		NWI classi	fication: PEMh				
Are climatic / hydrologic conditions on the site typical for th	is time of y	ear? Yes <u>×</u> N	lo (If no, explain in	Remarks.)				
Are Vegetation <u>NO</u> , Soil <u>NO</u> , or Hydrology <u>NO</u>	significantly	y disturbed? A	Are "Normal Circumstances"	[°] present? Yes <u>X</u> No				
Are Vegetation <u>No</u> , Soil <u>No</u> , or Hydrology <u>No</u>	naturally pr	roblematic? (If needed, explain any answers in Remarks.)						
SUMMARY OF FINDINGS – Attach site map	showing	g sampling poir	nt locations, transect	ts, important features, etc.				
Hydrophytic Vegetation Present? Yes N	No X	Is the Samr	oled Area					
Hydric Soil Present? Yes X	No	within a We	etland? Yes	No ×				
Wetland Hydrology Present? Yes X	No							
Remarks:								
ACOE/CCC jurisdictional. Please see hydrology no	tes.							

	Absolute	Dominant	Indicator	Dominance Test worksheet:	
Tree Stratum (Use scientific names.)	% Cover	Species?	Status	Number of Dominant Species	
1				That Are OBL, FACW, or FAC: (A))
2				Total Number of Dominant	
3.				Species Across All Strata: (B))
4				(-)	,
Total Cover				Percent of Dominant Species	-
Sapling/Shrub Stratum	·			That Are OBL, FACW, or FAC: (A/	/B)
<u></u>				Prevalence Index worksheet:	
··	·			Total % Cover of Multiply by:	
2					
3				OBL species x 1 =	
4				FACW species x 2 =	
5				FAC species x 3 =	
Total Cover:				FACU species x 4 =	
Herb Stratum				UPL species x 5 =	
1. Mesembryanthemum nodiflorum	25		FACU	Column Totals: (A) (E	B)
2.					_,
3.				Prevalence Index = B/A =	
4				Hydrophytic Vegetation Indicators:	
5	·			Dominance Test is >50%	
				Prevalence Index is $<3.0^{1}$	
0			·······	Morphological Adaptations ¹ (Provide supporting	
7	<u> </u>		<u> </u>	data in Remarks or on a separate sheet)	
8				Problematic Hydrophytic Vegetation ¹ (Explain)	
Total Cover:	25%				
Woody Vine Stratum					
1				Indicators of hydric soil and wetland hydrology must	t
2				be present.	
Total Cover:				Hydrophytic Vegetation	
% Bare Ground in Herb Stratum 75% % Cover	of Biotic C	rust		Present? Yes No X	
Remarks:				·	
no hydrophytic vegetation present.					

Depth	Matrix		Redo	x Feature	s						
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks			
)-4	2.5 YR 4/1							Silty Clay			
4-20	5 YR 3/4							Sandy clay loa			
Type: C=	Concentration, D=Deple	tion, RM=	Reduced Matrix.	² Locatior	: PL=Pore	e Lining, R	RC=Root Channel, M	=Matrix.			
lydric So	il Indicators: (Applica	ble to all	LRRs, unless othe	rwise not	ed.)		Indicators for P	roblematic Hydric Soils ³ :			
Histos Histic	sol (A1) Epipedon (A2)		Sandy Red Stripped Ma	ox (S5) atrix (S6)			1 cm Muck (2 cm Muck ((A9) (LRR C) (A10) (LRR B)			
Black	Histic (A3)		Loamy Muc	ky Minera	l (F1)		Reduced Ve	ertic (F18)			
Hydro	gen Sulfide (A4)		Loamy Gle	yed Matrix	(F2)		Red Parent Material (TF2)				
Stratif	ied Layers (A5) (LRR C))	Depleted M	latrix (F3)			Other (Explain in Remarks)				
1 cm I	Muck (A9) (LRR D)		X Redox Darl	Surface	(F6)						
Deple	ted Below Dark Surface	(A11)	Depleted D	ark Surfac	æ (F7)						
Thick	Dark Surface (A12)		Redox Dep	ressions (F8)						
Sandy	/ Mucky Mineral (S1)		Vernal Poo	ls (F9)			³ Indicators of hy	drophytic vegetation and			
Sandy	/ Gleyed Matrix (S4)						wetland hydro	ology must be present.			
Restrictiv	e Layer (if present):										
-											
Type:	(inches):						Hydric Soil Pres	ent? Yes <u>×</u> No			
Type: _ Depth ((incideo).										

Wetland Hydrology Indicators:		Secondary Indicators (2 or more required)
Primary Indicators (any one indicator is sufficient	:)	Water Marks (B1) (Riverine)
Surface Water (A1)	X Salt Crust (B11)	Sediment Deposits (B2) (Riverine)
High Water Table (A2)	Biotic Crust (B12)	Drift Deposits (B3) (Riverine)
X Saturation (A3)	Aquatic Invertebrates (B13)	Drainage Patterns (B10)
Water Marks (B1) (Nonriverine)	Hydrogen Sulfide Odor (C1)	Dry-Season Water Table (C2)
Sediment Deposits (B2) (Nonriverine)	Oxidized Rhizospheres along Living	Roots (C3) Thin Muck Surface (C7)
Drift Deposits (B3) (Nonriverine)	Presence of Reduced Iron (C4)	Crayfish Burrows (C8)
Surface Soil Cracks (B6)	Recent Iron Reduction in Plowed So	oils (C6) Saturation Visible on Aerial Imagery (C9)
X Inundation Visible on Aerial Imagery (B7)	Shallow Aquitard (D3)	
Water-Stained Leaves (B9)		FAC-Neutral Test (D5)
Field Observations:		
Surface Water Present? Yes No _	Depth (inches):	
Water Table Present? Yes No _	Depth (inches):	
Saturation Present? Yes X No (includes capillary fringe)	Depth (inches): <u>4-20</u>	Wetland Hydrology Present? Yes <u>X</u> No
Describe Recorded Data (stream gauge, monitor	ring well, aerial photos, previous inspection	ons), if available:
Remarks:		
2005 Aerial Imagery and rainfall data. Hydro	ology present.	

Project/Site: Pond 20	City/County: Imperial Beach/San Diego Sampling Date: 6/30/08							
Applicant/Owner: Port of San Diego	State: CA Sampling Point: DP11/PP11							
Investigator(s): Keith Merkel/Rebecca Erickson/Eileen Maher	Section, Township, Range: S20; T18S; R2W							
Landform (hillslope, terrace, etc.): salt panne	_ Local relief (concave, convex, none): <u>convex</u> Slope (%): <u>0%</u>							
Subregion (LRR): C Lat: 629	98988.79085 Long: <u>1793660.95105</u> Datum: <u>NAD83</u>							
Soil Map Unit Name: Drainage/perennial	NWI classification: PEMh							
Are climatic / hydrologic conditions on the site typical for this time of year? Yes No (If no, explain in Remarks.) Are VegetationNo, SoilNo, or HydrologyNo significantly disturbed? Are "Normal Circumstances" present? Yes No Are VegetationNo, SoilNo, or HydrologyNo naturally problematic? (If needed, explain any answers in Remarks.)								
SUMMARY OF FINDINGS – Attach site map showing	g sampling point locations, transects, important features, etc.							
Hydrophytic Vegetation Present? Yes No Hydric Soil Present? Yes No Wetland Hydrology Present? Yes No Pemarks: Yes No	Is the Sampled Area within a Wetland? Yes NoX							

ACOE/CCC jurisdictional.

	Absolute	Dominant	Indicator	Dominance Test worksheet:
<u>Tree Stratum</u> (Use scientific names.)	<u>% Cover</u>	Species?	Status	Number of Dominant Species
1				That Are OBL, FACW, or FAC: (A)
2				Total Number of Dominant
3				Species Across All Strata: (B)
4.				
Total Cover:				Percent of Dominant Species
Sapling/Shrub Stratum				
1				Prevalence Index worksheet:
2.				Total % Cover of:Multiply by:
3				OBL species x 1 =
۰				FACW species x 2 =
+				
5			·	
l otal Cover: Herb Stratum				FACO species x 4
Mesembryanthemum nodiflorum	25		FACU	UPL species
1				Column Totals: (A) (B)
2				Provalance Index - B/A -
3	<u> </u>		·	
4			. <u></u>	Hydrophytic vegetation indicators:
5				Dominance Test is >50%
6				Prevalence Index is ≤3.0 ⁺
7				Morphological Adaptations ¹ (Provide supporting
8				data in Remarks or on a separate sheet)
Total Cover:	25%			Problematic Hydrophytic Vegetation (Explain)
Woody Vine Stratum				
1				¹ Indicators of hydric soil and wetland hydrology must
2				be present.
Total Cover:				Hydrophytic
% Bare Ground in Herb Stratum75% % Cover	of Biotic C	rust		Present? Yes No X
Remarks:				1
No hydrophytic vegetation present.				

Depth	Matrix		Redo	ox Features	S					
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks		
)-4	2.5 YR 4/1							Silty Clay		
-20	5 YR 3/4							Sandy clay loam		
					_					
	·									
Type: C=C	Concentration, D=Depl	letion, RM=	Reduced Matrix.	² Location	: PL=Por	e Lining, R	C=Root Channel, M	=Matrix.		
iyaric Soli	Indicators: (Applica	able to all	LRRS, Unless othe	rwise not	ea.)		Indicators for P	roblematic Hydric Solis :		
Histoso	l (A1)		Sandy Red	ox (S5)			1 cm Muck ((A9) (LRR C)		
Histic E	pipedon (A2)		Stripped Matrix (S6)				2 cm Muck (A10) (LRR B)			
_ Black H	listic (A3)		Loamy Mucky Mineral (F1)				Reduced Vertic (F18)			
Hydrog	en Sulfide (A4)		Loamy Gleyed Matrix (F2)				Red Parent Material (TF2)			
<u>Stratifie</u>	d Layers (A5) (LRR C	;)	Depleted Matrix (F3)				Other (Expla	ain in Remarks)		
1 cm M	uck (A9) (LRR D)		Redox Dar	k Surface (F6)					
Deplete	ed Below Dark Surface	e (A11)	X Depleted D	ark Surfac	e (F7)					
Thick D	ark Surface (A12)		Redox Dep	ressions (I	-8)					
Sandy I	Mucky Mineral (S1)		Vernal Pools (F9)				³ Indicators of hydrophytic vegetation and			
Sandy (Gleyed Matrix (S4)			. ,			wetland hydro	plogy must be present.		
Restrictive	Layer (if present):							•		
Type:										
Depth (in	nches):						Hydric Soil Pres	ent? Yes <u>×</u> No		

Wetland Hydrology Indicators:		Secondary Indicators (2 or more required)
Primary Indicators (any one indicator is sufficient	i)	Water Marks (B1) (Riverine)
Surface Water (A1)	X Salt Crust (B11)	Sediment Deposits (B2) (Riverine)
High Water Table (A2)	Biotic Crust (B12)	Drift Deposits (B3) (Riverine)
X Saturation (A3)	Aquatic Invertebrates (B13)	Drainage Patterns (B10)
Water Marks (B1) (Nonriverine)	Hydrogen Sulfide Odor (C1)	Dry-Season Water Table (C2)
Sediment Deposits (B2) (Nonriverine)	Oxidized Rhizospheres along Livin	ng Roots (C3) Thin Muck Surface (C7)
Drift Deposits (B3) (Nonriverine)	Presence of Reduced Iron (C4)	Crayfish Burrows (C8)
Surface Soil Cracks (B6)	Recent Iron Reduction in Plowed S	Soils (C6) Saturation Visible on Aerial Imagery (C9)
\underline{X} Inundation Visible on Aerial Imagery (B7)	X Other (Explain in Remarks)	Shallow Aquitard (D3)
Water-Stained Leaves (B9)		FAC-Neutral Test (D5)
Field Observations:		
Surface Water Present? Yes No _	Depth (inches):	
Water Table Present? Yes No _	Depth (inches):	
Saturation Present? Yes <u>X</u> No (includes capillary fringe)	Depth (inches): <u>4-20</u>	Wetland Hydrology Present? Yes <u>×</u> No
Describe Recorded Data (stream gauge, monitor	ring well, aerial photos, previous inspect	tions), if available:
Remarks:		
2005 Aerial Imagery and rainfall data. Hydro	ology present.	

Project/Site: Pond 20	City/0	County: Imper	ial Beach/Sa	n Diego	Sampling	Date: 6/	30/08
Applicant/Owner: Port of San Diego			Stat	e: CA	Sampling	Point: D	P12/PP12
Investigator(s): Keith Merkel/Rebecca Erickson/Eileen Mahe	er Secti	Section, Township, Range: S20; T18S; R2W					
Landform (hillslope, terrace, etc.): salt panne	Loca	al relief (conca	ve, convex, noi	ne): <u>convex</u>		Slope	e (%): <u>0%</u>
Subregion (LRR): C Lat	_{t:} <u>6298996</u>	6.70381	Long: <u>1</u> 7	93661.38753	3	Datum	n: NAD83
Soil Map Unit Name: Drainage/perennial			-	NWI classific	ation: PEN	1h	
Are climatic / hydrologic conditions on the site typical for this time of year? Yes <u>×</u> No (If no, explain in Remarks.) Are Vegetation <u>No</u> , Soil <u>No</u> , or Hydrology <u>No</u> significantly disturbed? Are "Normal Circumstances" present? Yes <u>×</u> No (If needed, explain any answers in Remarks.) SUMMARY OF FINDINGS – Attach site map showing sampling point locations. transects, important features, e							
Hydrophytic Vegetation Present? Yes No Hydric Soil Present? Yes No Wetland Hydrology Present? Yes No Demoder Yes No	×	Is the Sam within a We	bled Area etland?	Yes	No	×	
ACOE/CCC jurisdictional. Please refer to hydrology notes	S.						

	Absolute	Dominant	Indicator	Dominance Test worksheet:
Tree Stratum (Use scientific names.)	% Cover	Species?	Status	Number of Dominant Species
1				That Are OBL, FACW, or FAC: (A)
2				Tatal Marshard (David and
3.				Species Across All Strata: (B)
1				
T				Percent of Dominant Species
Sanling/Shrub Stratum				That Are OBL, FACW, or FAC: (A/B)
<u> </u>				Prevalence Index worksheet:
l				
2				
3				OBL species x 1 =
4				FACW species x 2 =
5				FAC species x 3 =
Total Cover:				FACU species x 4 =
Herb Stratum				UPL species x 5 =
_{1.} Mesembryanthemum nodiflorum	25		FACU	Column Totals: (A) (B)
2				
3				Prevalence Index = B/A =
				Hydrophytic Vegetation Indicators:
4			·······	
5				Dominance results >50%
6				Prevalence Index is ≤3.0
7				Morphological Adaptations' (Provide supporting
8				data in Remarks or on a separate sneet)
Total Cover:	25%			Problematic Hydrophytic Vegetation' (Explain)
Woody Vine Stratum				
1				¹ Indicators of hydric soil and wetland hydrology must
2				be present.
				Hydrophytic
				Vegetation
% Bare Ground in Herb Stratum75 % Cover	of Biotic Cr	rust		Present? Yes No X
Remarks:				
No hydrophytic vegetation present.				

Profile Descri	ption: (Describe to	o the depth i	needed to docur	ment the ind	icator o	or confirm	the absence o	of indicator	s.)	
Depth	Matrix		Redo	x Features						
(inches)	Color (moist)	%	Color (moist)		Type ¹	Loc ²	Texture		Remarks	
0-12									Black N	/lucky Clay
		<u> </u>								
		<u> </u>								
					<u> </u>					<u>.</u>
'Type: C=Cor	centration, D=Deple	etion, RM=Re	educed Matrix.	² Location: F	PL=Pore	e Lining, R	C=Root Chann	el, M=Matrix	(.	3
Hydric Soil In	dicators: (Applica	ble to all LR	Rs, unless othe	rwise noted.	.)		Indicators f	or Problem	natic Hydric	Soils":
Histosol (#	41)		Sandy Red	ox (S5)			<u>×</u> 1 cm M	uck (A9) (Ll	RR C)	
Histic Epip	pedon (A2)		Stripped Ma	atrix (S6)			2 cm M	uck (A10) (I	_RR B)	
Black Hist	ic (A3)		Loamy Muc	ky Mineral (F	-1)		Reduce	d Vertic (F1	8)	
Hydrogen	Sulfide (A4)		Loamy Gley	yed Matrix (F	2)		Red Pa	rent Materia	al (TF2)	
Stratified I	Layers (A5) (LRR C)	X Depleted M	atrix (F3)			Other (I	Explain in R	emarks)	
1 cm Muc	k (A9) (LRR D)		Redox Dark	Surface (F6)	5)					
Depleted I	Below Dark Surface	(A11)	Depleted D	ark Surface (F7)					
Thick Darl	k Surface (A12)		Redox Dep	ressions (F8))		2			
Sandy Mu	icky Mineral (S1)		Vernal Pool	ls (F9)			°Indicators o	of hydrophyt	ic vegetation	and
Sandy Gle	eyed Matrix (S4)						wetland I	hydrology m	lust be prese	nt.
Restrictive La	ayer (if present):									
Туре:			_							
Depth (inch	ies):		_				Hydric Soil I	Present?	Yes X	No
Remarks:							·			
On tan of click		ا مسمع الم								
On top of sligr	ntly elevated, crea	ited berm. I	Hydric solls pre	sent.						
HYDROLOG	iΥ									

Wetland Hydrology Indicators:		Secondary Indicators (2 or more required)		
Primary Indicators (any one indicator is sufficient)		Water Marks (B1) (Riverine)		
Surface Water (A1)	Sediment Deposits (B2) (Riverine)			
High Water Table (A2)	Biotic Crust (B12)	Drift Deposits (B3) (Riverine)		
X Saturation (A3)	Aquatic Invertebrates (B13)	Drainage Patterns (B10)		
Water Marks (B1) (Nonriverine)	Hydrogen Sulfide Odor (C1)	Dry-Season Water Table (C2)		
Sediment Deposits (B2) (Nonriverine)	Oxidized Rhizospheres along Living	g Roots (C3) Thin Muck Surface (C7)		
Drift Deposits (B3) (Nonriverine)	Presence of Reduced Iron (C4)	Crayfish Burrows (C8)		
Surface Soil Cracks (B6)	oils (C6) Saturation Visible on Aerial Imagery (C9)			
X Inundation Visible on Aerial Imagery (B7)	Shallow Aquitard (D3)			
Water-Stained Leaves (B9)		FAC-Neutral Test (D5)		
Field Observations:				
Surface Water Present? Yes No	Depth (inches):			
Water Table Present? Yes No	Depth (inches):			
Saturation Present? Yes <u>X</u> No (includes capillary fringe)	Depth (inches):	Wetland Hydrology Present? Yes <u>X</u> No		
Describe Recorded Data (stream gauge, monitorin	ng well, aerial photos, previous inspection	ons), if available:		
Remarks:				
2005 Aerial Imagery and rainfall data. Hydrolo	ogy present.			

Project/Site: Pond 20	_ City/County: Imperial Beach/San Diego Sampling Date: 6/30/08					
Applicant/Owner: Port of San Diego	State: <u>CA</u> Sampling Point: <u>DP13/PP13</u>					
Investigator(s): Keith Merkel/Rebecca Erickson/Eileen Maher	_ Section, Township, Range: <u>S20;</u> T18S; R2W					
Landform (hillslope, terrace, etc.): salt panne	_ Local relief (concave, convex, none): <u>Concave</u> Slope (%): <u>0%</u>					
Subregion (LRR): C Lat: 62	298911.80172 Long: 1793977.33310 Datum: NAD83					
Soil Map Unit Name: Drainage/perennial	NWI classification: PEMh					
Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No (If no, explain in Remarks.)						
Are Vegetation <u>No</u> , Soil <u>No</u> , or Hydrology <u>No</u> significant	ly disturbed? Are "Normal Circumstances" present? Yes <u>×</u> No					
Are Vegetation <u>No</u> , Soil <u>No</u> , or Hydrology <u>No</u> naturally p	problematic? (If needed, explain any answers in Remarks.)					
SUMMARY OF FINDINGS – Attach site map showin	ng sampling point locations, transects, important features, etc.					
Hydrophytic Vegetation Present? Yes No						
Hydric Soil Present? Yes X No	- Is the Sampled Area					
Wetland Hydrology Present? Yes X No						
Remarks:						
ACOE/CCC jurisdictional. Refer to hydrology notes.						

	Absolute	Dominant	Indicator	Dominance Test worksheet:	
Tree Stratum (Use scientific names.)	% Cover	Species?	Status	Number of Dominant Species	
1				That Are OBL, FACW, or FAC: (A	۹)
2				Total Number of Dominant	
3.				Species Across All Strata: (B	3)
4				(_	-,
Total Cover				Percent of Dominant Species	
Sapling/Shrub Stratum				That Are OBL, FACW, or FAC: (A	\ /В)
1 -				Prevalence Index worksheet:	
2				Total % Cover of: Multiply by:	
3				$\frac{1}{OBl species} \qquad \qquad x 1 =$	
3					
4					
5				FAC species X 3 =	
Total Cover:				FACU species x 4 =	
Herb Stratum Mesembryanthemum podiflorum	60			UPL species x 5 =	
				Column Totals: (A) ((B)
2					
3				Prevalence Index = B/A =	
4				Hydrophytic Vegetation Indicators:	
5				Dominance Test is >50%	
6.				Prevalence Index is ≤3.0 ¹	
7				Morphological Adaptations ¹ (Provide supporting	g
8			·	data in Remarks or on a separate sheet)	
Tetel Cover	60%			Problematic Hydrophytic Vegetation ¹ (Explain)	
Woody Vine Stratum					
1 -				¹ Indicators of hydric soil and wetland hydrology mus	st
2				be present.	
Z				Liveren hydio	
l otal Cover:				Vegetation	
% Bare Ground in Herb Stratum <u>40%</u> % Cover	of Biotic C	rust		Present? Yes No X	
Remarks:					
No hydrophytic vegetation present.					

epth	Matrix		Redo	ox Features	6					
inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks		
-2	white							Salt		
-6	5 YR 3/1							Clay Loam		
5-12	5 YR 3/2							Loamy sand		
					. <u></u>					
Type: C=	Concentration, D=Deple	etion, RM=I	Reduced Matrix.	² Location	PL=Por	e Lining, F	C=Root Channel, N	1=Matrix.		
lydric So	il Indicators: (Applica	ble to all L	RRs, unless othe	rwise note	ed.)		Indicators for F	Problematic Hydric Soils ³ :		
Histosol (A1) Sandy Redox (S5)			1 cm Muck (A9) (LRR C)							
Histic	Epipedon (A2)	Stripped Matrix (S6)			2 cm Muck	(A10) (LRR B)				
Black	Histic (A3)		Loamy Muo	ky Mineral	(F1)		Reduced Vertic (F18)			
Hydrog	gen Sulfide (A4)		Loamy Gle	yed Matrix	(F2)		Red Parent Material (TF2)			
Stratifi	ied Layers (A5) (LRR C)	× Depleted M	latrix (F3)	. ,		Other (Expl	ain in Remarks)		
 1 cm N	Muck (A9) (LRR D)	,	Redox Dar	k Surface (F6)			,		
Deplet	ted Below Dark Surface	(A11)	Depleted D	ark Surfac	, e (F7)					
Thick I	Dark Surface (A12)	· /	Redox Dep	ressions (F	8)					
Sandv	Mucky Mineral (S1)		Vernal Poo	ls (F9)	,		³ Indicators of hydrophytic vegetation and			
Sandy	Gleved Matrix (S4)			/			wetland hvdr	ology must be present.		
Restrictive	e Layer (if present):						,			
Type:										
	inches):						Hydric Soil Pres	ent? Yes <u>×</u> No		
Depth (i										

Wetland Hydrology Indicators:		Secondary Indicators (2 or more required)
Primary Indicators (any one indicator is sufficien	Water Marks (B1) (Riverine)	
Surface Water (A1)	X Salt Crust (B11)	Sediment Deposits (B2) (Riverine)
High Water Table (A2)	Biotic Crust (B12)	Drift Deposits (B3) (Riverine)
X Saturation (A3)	Aquatic Invertebrates (B13)	Drainage Patterns (B10)
Water Marks (B1) (Nonriverine)	Hydrogen Sulfide Odor (C1)	Dry-Season Water Table (C2)
Sediment Deposits (B2) (Nonriverine)	Oxidized Rhizospheres along Living	Roots (C3) Thin Muck Surface (C7)
Drift Deposits (B3) (Nonriverine)	Presence of Reduced Iron (C4)	Crayfish Burrows (C8)
Surface Soil Cracks (B6)	bils (C6) Saturation Visible on Aerial Imagery (C9)	
\underline{X} Inundation Visible on Aerial Imagery (B7)	X Other (Explain in Remarks)	Shallow Aquitard (D3)
Water-Stained Leaves (B9)		FAC-Neutral Test (D5)
Field Observations:		
Surface Water Present? Yes No _	Depth (inches):	
Water Table Present? Yes No	Depth (inches):	
Saturation Present? Yes <u>X</u> No _ (includes capillary fringe)	Depth (inches): <u>4-20</u>	Wetland Hydrology Present? Yes <u>X</u> No
Describe Recorded Data (stream gauge, monito	ring well, aerial photos, previous inspectio	ons), if available:
Remarks:		
2005 Aerial Imagery and rainfall data. Hydr	ology indicators present.	

Project/Site: Pond 20		_ City/County: Imperial Beach/San Diego Sampling Date: 6/30/08					
Applicant/Owner: Port of San Diego		State: CA Sampling Point: DP14/PP14					
Investigator(s): Keith Merkel/Rebecca Erickson/Eileen Ma	laher g	Section, Township, Range: S20; T18S; R2W					
Landform (hillslope, terrace, etc.): salt panne		Local relief (concave, convex, none): Concave Slope (%): 0%					
Subregion (LRR): C	Lat: 6298	8915.60568 Long: 1793998.69290 Datum: NAD83					
Soil Map Unit Name: Drainage/perennial		NWI classification: PEMh					
Are climatic / hydrologic conditions on the site typical for this time of year? YesX No (If no, explain in Remarks.)							
Are Vegetation No, Soil No, or Hydrology No significantly disturbed? Are "Normal Circumstances" present? Yes X No							
Are Vegetation <u>No</u> , Soil <u>No</u> , or Hydrology <u>No</u> nat	turally prot	blematic? (If needed, explain any answers in Remarks.)					
SUMMARY OF FINDINGS – Attach site map sh	howing	sampling point locations, transects, important features, etc.					
Hydrophytic Vegetation Present? Yes No	×	In the Semaled Area					
Hydric Soil Present? Yes X No		is the Sampled Area					
Wetland Hydrology Present? Yes <u>X</u> No	<u> </u>						
Remarks:							
ACOE/CCC jurisdictional. Refer to hydrology notes.							

	Absolute	Dominant	Indicator	Dominance Test worksheet:	
Tree Stratum (Use scientific names.)	<u>% Cover</u>	Species?	Status	Number of Dominant Species	
1				That Are OBL, FACW, or FAC:	(A)
2				Total Number of Dominant	
3				Species Across All Strata:	(B)
4.					. ,
Total Cover:				Percent of Dominant Species	
Sapling/Shrub Stratum				That Are OBL, FACW, or FAC:	(A/B)
1				Prevalence Index worksheet:	
2.				Total % Cover of: Multiply by:	_
3				OBL species x 1 =	_
а				FACW species x 2 =	-
+				FAC species x 3 =	-
J					-
Herb Stratum					-
1 Mesembryanthemum nodiflorum	30				-
1				Column Totals: (A)	(B)
2				Prevalence Index = B/A =	
3				Hydrophytic Vegetation Indicators	-
4					
5				Dominance Test is >50%	
6				Prevalence Index is ≤3.0	
7				Morphological Adaptations ¹ (Provide supporti	ng
8				data in Remarks of on a separate sheet)	
Total Cover:	30%			Problematic Hydrophytic Vegetation (Explain	1)
Woody Vine Stratum					
1				¹ Indicators of hydric soil and wetland hydrology m	ust
2				be present.	
Total Cover:				Hydrophytic Vogetation	
% Bare Ground in Herb Stratum 70% % Cover	of Biotic Ci	rust		Present? Yes No X	
Remarks:				•	
No hydrophytic vocatation present					
no nyurophytic vegetation present.					

Profile Des	cription: (Describe	the depth i	needed to docu	iment the i	ndicator	or confirm	the absence of ind	icators.)	
Depth (inches)	Color (moist)	%	Color (moist)	<u>ox Features</u> %	Tvpe ¹	loc^2	Texture	Remarks	
0-2	10 YR 3/3							Peat (clay loam)	
2-12	2.5 YR 3/1							Silty Clay Loam	
¹ Type: C=C Hydric Soil	oncentration, D=Depl	etion, RM=Re able to all LR	duced Matrix. Rs, unless othe	² Location	 : PL=Por ed.)	 e Lining, R	C=Root Channel, M= Indicators for Pro	Matrix. oblematic Hydric Soils ³ :	
Histoso	I (A1)		Sandy Red	dox (S5)			1 cm Muck (A	(LRR C)	
Histic E	Histic Epipedon (A2)			Stripped Matrix (S6)				(LRR B)	
Black H	Black Histic (A3)			X Loamy Mucky Mineral (F1)				tic (F18)	
Hydrog	en Sulfide (A4)		Loamy Gle	eved Matrix	(F2)		Red Parent Material (TF2)		
Stratifie	d Lavers (A5) (LRR C	;)	× Depleted N	/atrix (F3)			Other (Explain in Remarks)		
1 cm M	uck (A9) (LRR D)	,	 Redox Dai	k Surface (F6)		、 !	,	
Deplete	d Below Dark Surface	e (A11)	Depleted [)ark Surfac	e (F7)				
Thick D	ark Surface (A12)	()	Redox Der	pressions (F	- () - 8)				
Sandy I	Mucky Mineral (S1)		Vernal Por	ols (F9)	0)		³ Indicators of hydr	rophytic vegetation and	
Sandy (Gleved Matrix (S4)						wetland hydrology must be present		
Restrictive	Layer (if present):							-3,	
Type:			_						
Depth (ir	nches):		_				Hydric Soil Prese	nt? Yes <u>×</u> No	
Remarks:									
Hydric soils	present.								
)GY								
Wetland Hy	drology Indicators:						Secondary Ir	ndicators (2 or more required)	

wetland Hydrology indicators:		Secondary indicators (2 or more required)
Primary Indicators (any one indicator is sufficien	t)	Water Marks (B1) (Riverine)
Surface Water (A1)	X Salt Crust (B11)	Sediment Deposits (B2) (Riverine)
High Water Table (A2)	Biotic Crust (B12)	Drift Deposits (B3) (Riverine)
Saturation (A3)	Aquatic Invertebrates (B13)	Drainage Patterns (B10)
Water Marks (B1) (Nonriverine)	Hydrogen Sulfide Odor (C1)	Dry-Season Water Table (C2)
Sediment Deposits (B2) (Nonriverine)	Oxidized Rhizospheres along Living	Roots (C3) Thin Muck Surface (C7)
Drift Deposits (B3) (Nonriverine)	Presence of Reduced Iron (C4)	Crayfish Burrows (C8)
Surface Soil Cracks (B6)	Recent Iron Reduction in Plowed Soi	ls (C6) Saturation Visible on Aerial Imagery (C9)
\underline{X} Inundation Visible on Aerial Imagery (B7)	X Other (Explain in Remarks)	Shallow Aquitard (D3)
Water-Stained Leaves (B9)		FAC-Neutral Test (D5)
Field Observations:		
Surface Water Present? Yes No	Depth (inches):	
Water Table Present? Yes No	Depth (inches):	
Saturation Present? Yes <u>No</u> (includes capillary fringe)	Depth (inches): W	/etland Hydrology Present? Yes <u>×</u> No
Describe Recorded Data (stream gauge, monito	ring well, aerial photos, previous inspectior	ns), if available:
Remarks:		
2005 Aerial Imagery and rainfall data. Hydr	ologic indicators present.	

Project/Site: Pond 20	(_ City/County: Imperial Beach/San Diego Sampling Date: 6/30/08					
Applicant/Owner: Port of San Diego			State: CA	Sampling Point: DP15/PP15			
Investigator(s): Keith Merkel/Rebecca Erickson/Eileen Ma	aher g	Section, Townshi	p, Range: <u>S20;</u> T18S; R2W				
Landform (hillslope, terrace, etc.): salt panne		Local relief (conc	ave, convex, none): <u>none</u>	Slope (%): <u>0%</u>			
Subregion (LRR): C	Lat: 6298	3877.41957	Long: <u>1793921.9944</u>	2 Datum: NAD83			
Soil Map Unit Name: Drainage/perennial			NWI classifi	_{cation:} PEMh			
Are climatic / hydrologic conditions on the site typical for this time of year? Yes <u>X</u> No (If no, explain in Remarks.)							
Are Vegetation <u>No</u> , Soil <u>No</u> , or Hydrology <u>No</u> sign	nificantly o	lly disturbed? Are "Normal Circumstances" present? Yes <u>×</u> No					
Are Vegetation <u>No</u> , Soil <u>No</u> , or Hydrology <u>No</u> natu	turally prot	olematic?	(If needed, explain any answe	ers in Remarks.)			
SUMMARY OF FINDINGS – Attach site map sh	howing	sampling po	int locations, transects	s, important features, etc.			
Hydrophytic Vegetation Present? Yes No	×						
Hydric Soil Present? Yes No _	×	Is the San	npled Area	No. X			
Wetland Hydrology Present? Yes No	×	within a v	venand? fes	NO <u></u>			
Remarks:							
DP15 not located within a wetland. Non-jurisdictional.							

j
)
)
/B)
B)
t

Profile Des	cription: (Describe t	o the depth	needed to docur	ment the i	ndicator	or confirm	n the absence of indi	cators.)				
Depth	Matrix		$\frac{\text{Redox Features}}{\text{Redox Features}}$									
(inches)	Color (moist)		Color (moist)	%	Type'	Loc	Texture	Remarks				
0-4								Sait				
4-12	2.5 YR 3/2							Loamy Sand				
				·								
					<u> </u>		·					
										. <u> </u>		
¹ Type: C=C	oncentration, D=Depl	etion, RM=R	educed Matrix.	² Location	: PL=Por	e Lining, F	RC=Root Channel, M=	Matrix.	<u>^</u>			
Hydric Soil	Indicators: (Applica	ble to all LF	RRs, unless othe	rwise note	ed.)		Indicators for Pro	oblematic Hydr	ic Soils':			
Histoso	l (A1)		Sandy Red	ox (S5)			1 cm Muck (A	9) (LRR C)				
Histic E	pipedon (A2)		Stripped Ma	atrix (S6)			2 cm Muck (A10) (LRR B)					
Black H	istic (A3)		Loamy Muc	ky Mineral	l (F1)		Reduced Vertic (F18)					
Hydroge	en Sulfide (A4)		Loamy Gley	Loamy Gleyed Matrix (F2)				Red Parent Material (TF2)				
Stratifie	d Layers (A5) (LRR C	5)	Depleted M	Depleted Matrix (F3)				Other (Explain in Remarks)				
1 cm M	uck (A9) (LRR D)	()	Redox Dark Surface (F6)									
Deplete	d Below Dark Surface	(A11)	Depleted D	ark Surface	e(F7)							
	ark Surrace (A12)		Redox Dep	ressions (F	-8)		³ Indiactors of hydrophytic vegetation and					
Sandy r	Cloved Metrix (S1)		vernai Poo	S (F9)			Indicators of hydrophytic vegetation and					
Sanuy C	Laver (if present):							ogy must be pre	sent.			
Turner	Layer (il present).											
Type:										×		
Depth (in	iches):						Hydric Soil Prese	nt? Yes	No			
Remarks:												
No hydric se	nil present											
i to fiyuno so	on present.											

Wetland Hydrology Indicato	rs:		Secondary Indicators (2 or more required)
Primary Indicators (any one in	idicator is sufficient	1t)	Water Marks (B1) (Riverine)
Surface Water (A1)		X Salt Crust (B11)	Sediment Deposits (B2) (Riverine)
High Water Table (A2)		Biotic Crust (B12)	Drift Deposits (B3) (Riverine)
Saturation (A3)		Aquatic Invertebrates (B13)	Drainage Patterns (B10)
Water Marks (B1) (Nonri	verine)	Hydrogen Sulfide Odor (C1)	Dry-Season Water Table (C2)
Sediment Deposits (B2) (Nonriverine)	Oxidized Rhizospheres along Livin	g Roots (C3) Thin Muck Surface (C7)
Drift Deposits (B3) (Nonr	iverine)	Presence of Reduced Iron (C4)	Crayfish Burrows (C8)
Surface Soil Cracks (B6)		Soils (C6) Saturation Visible on Aerial Imagery (C9)	
Inundation Visible on Aer	ial Imagery (B7)	Other (Explain in Remarks)	Shallow Aquitard (D3)
Water-Stained Leaves (B	9)		FAC-Neutral Test (D5)
Field Observations:			
Surface Water Present?	Yes No _	Depth (inches):	
Water Table Present?	Yes No _	Depth (inches):	
Saturation Present? (includes capillary fringe)	Yes No _	Wetland Hydrology Present? Yes No	
Describe Recorded Data (stre	am gauge, monitor	oring well, aerial photos, previous inspect	ions), if available:
Remarks:			
Historic salt crust not indica	tor of hydrology.		

Project/Site: Pond 20	City/	_{County:} Imperia	I Beach/San	Diego	Samp	ling Date:	6/30/08
Applicant/Owner: Port of San Diego			State	, CA	Sampl	ing Point:	DP16/PP16
Investigator(s): Keith Merkel/Rebecca Erickson/Eileen Mah	er Sect	ion, Township, R	Range: S20; T	18S; R2W			
Landform (hillslope, terrace, etc.): salt panne	Loc;	al relief (concave	e, convex, non	e): concave		Slo	ope (%): <u>0%</u>
Subregion (LRR): C La	_{at:} 629862 ⁻	7.32302	Long: 179	4009.12714	1	Dati	um: NAD83
Soil Map Unit Name: Drainage/perennial				NWI classific	cation: F	PEMh	
Are climatic / hydrologic conditions on the site typical for this time of year? Yes <u>×</u> No (If no, explain in Remarks.) Are Vegetation <u>No</u> , Soil <u>No</u> , or Hydrology <u>No</u> significantly disturbed? Are "Normal Circumstances" present? Yes <u>×</u> No (If needed, explain any answers in Remarks.) SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.							
Hydrophytic Vegetation Present? Yes No Hydric Soil Present? Yes No Wetland Hydrology Present? Yes No	<u>×</u>	Is the Sample within a Weth	ed Area and?	Yes	<u>×</u> N	lo	_
Remarks: ACOE/CCC jurisdictional. Refer to hydrology notes.							

	Absolute	Dominant	Indicator	Dominance Test worksheet:
<u>Tree Stratum</u> (Use scientific names.) 1	% Cover	Species?	Status	Number of Dominant Species That Are OBL, FACW, or FAC: (A)
2 3				Total Number of Dominant Species Across All Strata: (B)
4 Total Cover: Sapling/Shrub Stratum				Percent of Dominant Species That Are OBL, FACW, or FAC: (A/B)
1				Prevalence Index worksheet:
2			·	Total % Cover of: Multiply by:
3				OBI species x 1 =
۵				FACW species x 2 =
4		<u> </u>	·	
5	·		·	FACIL species x 4 =
Herb Stratum				
1. ⁻				Column Totals: (A) (B)
2.				
3.			. <u> </u>	Prevalence Index = B/A =
4			·	Hydrophytic Vegetation Indicators:
5			. <u> </u>	Dominance Test is >50%
6				Prevalence Index is ≤3.0 ¹
7				Morphological Adaptations ¹ (Provide supporting
1	. <u></u>		<u> </u>	data in Remarks or on a separate sheet)
o			·	Problematic Hydrophytic Vegetation ¹ (Explain)
Voody Vine Stratum				
1 -				¹ Indicators of hydric soil and wetland hydrology must
2				be present.
Total Cover:				Hydrophytic
% Bare Ground in Herb Stratum % Cover	of Biotic C	rust		Vegetation Present? Yes <u>No X</u>
Remarks:				
No vegetation present.				

Depth <u>Matrix</u>	Redox Features				
(inches) Color (moist) %	Color (moist) % Type ¹ L	.oc ² Texture	Remarks		
0-4			Salt		
4-12			Black muck -		
			silty clay		
Type: C=Concentration, D=Depletion, RM=F Hvdric Soil Indicators: (Applicable to all L	Reduced Matrix. ² Location: PL=Pore Li RRs. unless otherwise noted.)	ning, RC=Root Channel, Indicators for	M=Matrix. Problematic Hvdric Soils ³ :		
Histosol (A1)	Sandy Redox (S5)	× 1 cm Muc	k (A9) (LRR C)		
Histic Epipedon (A2)	Stripped Matrix (S6)	2 cm Muc	k (A10) (LRR B)		
Black Histic (A3)	Loamy Mucky Mineral (F1)	Reduced	Vertic (F18)		
Hydrogen Sulfide (A4)	Loamy Gleved Matrix (F2)	Red Pare	Red Parent Material (TF2)		
Stratified Lavers (A5) (LRR C)	Depleted Matrix (F3)	Other (Ex	plain in Remarks)		
1 cm Muck (AQ) (LRR D)	Depleted Matrix (13)				
Depleted Below Dark Surface (A11)	Redox Dark Surface (F0)				
Depieted Below Dark Surface (ATT)					
Thick Dark Sunace (A12)	Redox Depressions (Fo)	31			
Sandy Mucky Mineral (S1)	Vernal Pools (F9)	Indicators of i	hydrophytic vegetation and		
Sandy Gleyed Matrix (S4) Postrictive Laver (if present):		wetland hy	arology must be present.		
Type.					
Depth (inches):		Hydric Soil Pro	esent? Yes × No		
Remarks:		-			
lvdric soil present.					
Wetland Hydrology Indicators:		Seconda	ry Indicators (2 or more required		
Primary Indicators (anv one indicator is suffic	ent)	Wate	er Marks (B1) (Riverine)		
Surface Water (A1)	Salt Crust (B11)	Sedi	ment Deposits (B2) (Riverine)		
	Biotic Crust (B12)	Drift	Deposits (B3) (Riverine)		
High Water Lable (A2)			Drainage Patterns (P10)		
High Water Table (A2) Saturation (A3)	Aquatic Invertebrates (B13)	Drair	age Patterns (B10)		
High Water Table (A2) X Saturation (A3) Water Marks (B1) (Nonriverine)	Aquatic Invertebrates (B13)	Drain	nage Patterns (B10) Season Water Table (C2)		

Wetland Hydrology Indicators:	Secondary Indicators (2 or more required)
Primary Indicators (any one indicator is sufficient)	Water Marks (B1) (Riverine)
Surface Water (A1) Salt Crust (B11)	Sediment Deposits (B2) (Riverine)
High Water Table (A2) Biotic Crust (B12)	Drift Deposits (B3) (Riverine)
X Saturation (A3) Aquatic Invertebrates (B13)	Drainage Patterns (B10)
Water Marks (B1) (Nonriverine) Hydrogen Sulfide Odor (C1)	Dry-Season Water Table (C2)
Sediment Deposits (B2) (Nonriverine) Oxidized Rhizospheres along Livin	g Roots (C3) Thin Muck Surface (C7)
Drift Deposits (B3) (Nonriverine) Presence of Reduced Iron (C4)	Crayfish Burrows (C8)
Surface Soil Cracks (B6) Recent Iron Reduction in Plowed S	Soils (C6) Saturation Visible on Aerial Imagery (C9)
\underline{X} Inundation Visible on Aerial Imagery (B7) \underline{X} Other (Explain in Remarks)	Shallow Aquitard (D3)
Water-Stained Leaves (B9)	FAC-Neutral Test (D5)
Field Observations:	
Surface Water Present? Yes No Depth (inches):	
Water Table Present? Yes No Depth (inches):	
Saturation Present? Yes X No Depth (inches): 4-12 (includes capillary fringe)	Wetland Hydrology Present? Yes <u>×</u> No
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspect	ions), if available:
Remarks:	
2005 Aerial Imagery and rainfall data. Hydrology present.	

Project/Site: Pond 20		City/County: Imperial Be	each/San Diego	Sampling D	oate: 6/30/08
Applicant/Owner: Port of San Diego			State: CA	Sampling P	oint: DP17/PP17
Investigator(s): Keith Merkel/Rebecca Erickson/Eileen	Maher	Section, Township, Rang	_{ge:} <u>S20;</u> T18S; R2W	V	
Landform (hillslope, terrace, etc.): salt panne		Local relief (concave, co	onvex, none): <u>none</u>		_ Slope (%): 0%
Subregion (LRR): C	_ Lat: 629	98677.21002	Long: 1794093.739	16	Datum: NAD83
Soil Map Unit Name: Drainage/perennial			NWI classi	fication: PEMI	า
Are climatic / hydrologic conditions on the site typical for this Are Vegetation <u>No</u> , Soil <u>No</u> , or Hydrology <u>No</u> si Are Vegetation <u>No</u> , Soil <u>No</u> , or Hydrology <u>No</u> na SUMMARY OF FINDINGS – Attach site map s	itime of ye ignificantly aturally pr showing	ar? Yes <u>No</u> No disturbed? Are "N oblematic? (If nee g sampling point lo	(If no, explain in ormal Circumstances' ded, explain any answ cations, transec	Remarks.) " present? Ye vers in Remark ts, importa	s.) nt features, etc.
Hydrophytic Vegetation Present? Yes No Hydric Soil Present? Yes No Wetland Hydrology Present? Yes No Remarks: No	× ×	Is the Sampled A within a Wetland	\rea ? Yes	× No	
ACOE/CCC jurisdictional. See hydrology notes.					

	Absolute	Dominant	Indicator	Dominance Test worksheet:	
Tree Stratum (Use scientific names.)	% Cover	Species?	Status	Number of Dominant Species	
1				That Are OBL, FACW, or FAC: (A)	
2				Total Number of Dominant	
3				Species Across All Strata: (B)	
4.					
Total Cover:				Percent of Dominant Species	D)
Sapling/Shrub Stratum					5)
1				Prevalence Index worksheet:	
2.				Total % Cover of: Multiply by:	
3				OBL species x 1 =	
A				FACW species x 2 =	
+					
J			·		
Herb Stratum					
1 Mesenbryanthemum nodiflorum	35		FACU		
·· <u>·</u>				Column Totals: (A) (B))
2				Prevalence Index = B/A =	
3			·	Hydrophytic Vegetation Indicators:	
4			·		
5				Dominance Test is >50%	
6	<u> </u>		<u> </u>	Prevalence Index is ≤3.0	
7				Morphological Adaptations' (Provide supporting	
8				Data in Remarks of on a separate sheet)	
Total Cover:	35%			Problematic Hydrophytic Vegetation (Explain)	
Woody Vine Stratum					
1				Indicators of hydric soil and wetland hydrology must	
2				be present.	
Total Cover:				Hydrophytic Vegetation	
% Bare Ground in Herb Stratum <u>65%</u> % Cover	of Biotic C	rust		Present? Yes <u>No X</u>	
Remarks:					
No hydrophytic vegetation procent					

Uepth (inches) 0-3 3-12	Color (moist)	%	Redo	ny Features				
0-3 3-12		///	Color (moist)	% · ·	Type ¹	L oc ²	Texture	Remarks
3-12	10 1K 4/2							Loamy sand
	Black							Black muck -
								silty clay
¹ Type: C=C		tion RM=R	educed Matrix	² Location: I			C=Root Channel M=	Matrix
Hydric Soil	Indicators: (Applica	ble to all L	RRs, unless othe	rwise noted.	.)	s Eining, r	Indicators for Pr	oblematic Hydric Soils ³ :
 Histosol Histic E Black H Hydroge Stratifie 1 cm Me Deplete Thick D 	I (A1) pipedon (A2) listic (A3) en Sulfide (A4) d Layers (A5) (LRR C uck (A9) (LRR D) ed Below Dark Surface) (A11)	Sandy Red Stripped M. Loamy Mud Loamy Gle X Depleted M Redox Darl Depleted D	ox (S5) atrix (S6) cky Mineral (F yed Matrix (F latrix (F3) k Surface (F6 vark Surface (F1) F2) 6) (F7)		1 cm Muck (A 2 cm Muck (A Reduced Ver Red Parent M Other (Explai	A9) (LRR C) A10) (LRR B) tic (F18) Material (TF2) n in Remarks)
Sandy M	ark Surface (A12) Mucky Mineral (S1) Gleyed Matrix (S4)		Redox Dep Vernal Poo	ls (F9))		³ Indicators of hydr wetland hydrol	rophytic vegetation and logy must be present.
Restrictive	Layer (if present):							
Туре:								\sim
Depth (in	iches):						Hydric Soil Prese	nt? Yes <u>^</u> No
Remarks: Hydric soil iı	ndicators present.							

Wetland Hydrology Indicators:		Secondary Indicators (2 or more required)
Primary Indicators (any one indicator is sufficient	t)	Water Marks (B1) (Riverine)
 Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonriverine) Sediment Deposits (B2) (Nonriverine) Drift Deposits (B3) (Nonriverine) 	 X Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Presence of Reduced Iron (C4) 	g Roots (C3) Crayfish Burrows (C4) (Internet) Crayfish Burrows (C8) (Riverine) Crayfish Burrows (C8)
 Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery (B7) Water-Stained Leaves (B9) 	Recent Iron Reduction in Plowed S X Other (Explain in Remarks)	Soils (C6) Saturation Visible on Aerial Imagery (C9) Shallow Aquitard (D3) FAC-Neutral Test (D5)
Field Observations:		
Surface Water Present? Yes No _	Depth (inches):	
Water Table Present? Yes No _	Depth (inches):	
Saturation Present? Yes No (includes capillary fringe)	Depth (inches):	Wetland Hydrology Present? Yes <u>×</u> No
Describe Recorded Data (stream gauge, monito	ring well, aerial photos, previous inspecti	ions), if available:
Remarks:		
2005 Aerial Imagery and rainfall data. Hydro	ology present.	

Project/Site: Pond 20	_ City/County: Imperial Beach/San Diego Sampling Date: 6/30/08					
Applicant/Owner: Port of San Diego	State: CA Sampling Point: DP18/PP18					
Investigator(s): Keith Merkel/Rebecca Erickson/Eileen Maher	_ Section, Township, Range: S20; T18S; R2W					
Landform (hillslope, terrace, etc.): salt panne	_ Local relief (concave, convex, none): <u>none</u> Slope (%): <u>0%</u>					
Subregion (LRR): C	298762.58882 Long: 1794204.81533 Datum: NAD83					
Soil Map Unit Name: Drainage/perennial	NWI classification: PEMh					
Are climatic / hydrologic conditions on the site typical for this time of year? Yes <u>X</u> No (If no, explain in Remarks.) Are Vegetation <u>No</u> , Soil <u>No</u> , or Hydrology <u>No</u> significantly disturbed? Are "Normal Circumstances" present? Yes <u>X</u> No (If needed, explain any answers in Remarks.) Are Vegetation <u>No</u> , Soil <u>No</u> , or Hydrology <u>No</u> naturally problematic? (If needed, explain any answers in Remarks.) SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.						
Hydrophytic Vegetation Present? Yes No Hydric Soil Present? Yes No Wetland Hydrology Present? Yes No	Is the Sampled Area within a Wetland? Yes NoX					

Remarks:

Non-jurisdictional.

	Absolute	Dominant	Indicator	Dominance Test worksheet:
Tree Stratum (Use scientific names.)	<u>% Cover</u>	Species?	Status	Number of Dominant Species
1				That Are OBL, FACW, or FAC: (A)
2				Total Number of Dominant
3				Species Across All Strata: 0 (B)
4				
Total Cover:				Percent of Dominant Species
Sapling/Shrub Stratum				
1				Prevalence Index worksheet:
2				Total % Cover of: Multiply by:
3.				OBL species x 1 =
4				FACW species x 2 =
5				FAC species x 3 =
Total Cover:				FACU species x 4 =
Herb Stratum				
1. Mesenbryanthemum nodiflorum	60		FACU	
2				
3				Prevalence Index = B/A =
4				Hydrophytic Vegetation Indicators:
				Dominance Test is >50%
5	·			$\frac{1}{2} = \frac{1}{2} $
0				Merphological Adaptations ¹ (Provide supporting
/			·	data in Remarks or on a separate sheet)
8	600/			Problematic Hydrophytic Vegetation ¹ (Explain)
Total Cover:	60%			
				¹ Indicators of hydric soil and wetland hydrology must
1				be present.
2			·	
Total Cover:				Hydrophytic Vegetation
% Bare Ground in Herb Stratum <u>40%</u> % Cover	of Biotic Cr	rust		Present? Yes <u>No X</u>
Remarks:				
No hydrophytic vegetation present				

Profile Des	cription: (Describe t	o the depth	needed to docu	ment the in	dicator	or confirn	n the absence of indicator	rs.)
Depth	Matrix		Redo	ox Features	- 1	. 2		
(inches)	Color (moist)		Color (moist)	%	Type	Loc		<u>Remarks</u>
0-0				·				Sait
6-12	5 YR 3/2							Silty clay
				·			·	
					<u> </u>			
¹ Type: C=C	oncentration, D=Depl	etion, RM=Re	educed Matrix.	² Location:	PL=Por	e Lining, F	RC=Root Channel, M=Matrix	х.
Hydric Soil	Indicators: (Applica	ble to all LR	Rs, unless othe	rwise note	d.)		Indicators for Problem	natic Hydric Soils ³ :
Histoso	l (A1)		Sandy Red	ox (S5)			1 cm Muck (A9) (LI	RR C)
Histic E	pipedon (A2)		Stripped M	atrix (S6)			2 cm Muck (A10) (I	LRR B)
Black H	istic (A3)		Loamy Muo	cky Mineral	(F1)		Reduced Vertic (F1	18)
Hydroge	en Sulfide (A4)	`	Loamy Gle	yed Matrix ((F2)		Red Parent Materia	al (TF2)
Stratille)	Depleted Matrix (F3) Redox Dark Surface (F6)					emarks)
Deplete	d Below Dark Surface	(A11)	Depleted D	ark Surface	e (F7)			
Thick D	ark Surface (A12)	()	Redox Dep	ressions (F	8)			
Sandy M	Mucky Mineral (S1)		Vernal Poo	ls (F9)			³ Indicators of hydrophyt	tic vegetation and
Sandy (Gleyed Matrix (S4)						wetland hydrology m	nust be present.
Restrictive	Layer (if present):							
Туре:								~
Depth (in	iches):						Hydric Soil Present?	Yes <u> </u>
Remarks:							•	
No hydric so	oil indicators preser	t						
HYDROLO	GY							

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

Project/Site: Pond 20	City/County: Imperial	Beach/San Diego	Sampling Date: <u>6/30/08</u>			
Applicant/Owner: Port of San Diego		State: CA	Sampling Point: DP19/PP19			
Investigator(s): Keith Merkel/Rebecca Erickson/Eileen Mahe	r Section, Township, Ra	ange: <u>S20; T18S; R2W</u>				
Landform (hillslope, terrace, etc.): salt panne	Local relief (concave,	, convex, none): <u>none</u>	Slope (%): 0%			
Subregion (LRR): C Lat	6298825.91036	Long: <u>1794462.08841</u>	Datum: NAD83			
Soil Map Unit Name: Drainage/perennial NWI classification: PEMh						
Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No (If no, explain in Remarks.) Are Vegetation						
Sommart of Findings – Attach site map show			important reatures, etc.			
Hydrophytic Vegetation Present? Yes No Hydric Soil Present? Yes No Wetland Hydrology Present? Yes No	X Is the Sample X within a Wetla	d Area Ind? Yes	No X			

Remarks:

Non-jurisdictional.

	Absolute	Dominant	Indicator	Dominance Test worksheet:
<u>Tree Stratum</u> (Use scientific names.)	<u>% Cover</u>	Species?	Status	Number of Dominant Species
1				That Are OBL, FACW, or FAC: (A)
2				Total Number of Dominant
3.				Species Across All Strata: (B)
4				(-)
Total Cover				Percent of Dominant Species
Sapling/Shrub Stratum				That Are OBL, FACW, or FAC: (A/B)
1				Prevalence Index worksheet:
2				Total % Cover of: Multiply by:
2				
3				
4			·	FACW species x 2
5				FAC species x 3 =
Total Cover:				FACU species x 4 =
Herb Stratum Mosophryanthomum podiflorum	60		EACU	UPL species x 5 =
			FACU	Column Totals: (A) (B)
2				
3				Prevalence Index = B/A =
4				Hydrophytic Vegetation Indicators:
5				Dominance Test is >50%
6.				Prevalence Index is ≤3.0 ¹
7				Morphological Adaptations ¹ (Provide supporting
8				data in Remarks or on a separate sheet)
0	60%			Problematic Hydrophytic Vegetation ¹ (Explain)
Woody Vine Stratum				
1 -				¹ Indicators of hydric soil and wetland hydrology must
·				be present.
2				
l otal Cover:				Vegetation
% Bare Ground in Herb Stratum <u>40%</u> % Cover	of Biotic Ci	rust		Present? Yes <u>No X</u>
Remarks:				
No hydrophytic vegetation present				

Profile Des	cription: (Describe to	the depth	needed to docum	nent the in	ndicator	or confirm	the absence of i	ndicators.	.)		
Depth	Matrix		Redox								
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture		Remarks		
0-6									Calciu	m carbo	nate
6-12	5 YR 3/2								Silty cl	ay	
¹ Tvpe: C=C	oncentration. D=Deple	etion. RM=Re	educed Matrix.	² Location:	PL=Pore	e Linina. R	C=Root Channel.	M=Matrix.			
Hydric Soil	Indicators: (Applica	ble to all LR	Rs, unless other	wise note	ed.)		Indicators for	Problema	tic Hydric	Soils ³ :	
Histoso	I (A1)		Sandy Redo	x (S5)	-		1 cm Muck	(A9) (LRF	R C)		
Histic E	pipedon (A2)		Stripped Matrix (S6)				2 cm Muck (A10) (LRR B)				
Black H	istic (A3)		Loamy Mucky Mineral (F1)				Reduced Vertic (F18)				
Hydrog	en Sulfide (A4)		Loamy Gleyed Matrix (F2)				Red Parent Material (TF2)				
Stratifie	d Layers (A5) (LRR C)	Depleted Matrix (F3)				Other (Explain in Remarks)				
1 cm M	uck (A9) (LRR D)		Redox Dark Surface (F6)								
Deplete	d Below Dark Surface	(A11)	Depleted Date	rk Surface	e (F7)						
Thick D	ark Surface (A12)		Redox Depr	essions (F	-8)						
Sandy I	Mucky Mineral (S1)		Vernal Pools	s (F9)			³ Indicators of h	ydrophytic	vegetatior	and	
Sandy (Gleyed Matrix (S4)						wetland hyd	drology mus	st be prese	ent.	
Restrictive	Layer (if present):										
Туре:			_								
Depth (in	ches):		_				Hydric Soil Pre	esent? Y	′es	No	
Remarks:							•				

No redox concentrations present. Soil salinity is high and prevents this chemical process where it would normally occur. Hydric soil indicators not present.

Wetland Hydrology Indicators:		Secondary Indicators (2 or more required)				
Primary Indicators (any one indicator is sufficient	i)	Water Marks (B1) (Riverine)				
Surface Water (A1)	X Salt Crust (B11)	Sediment Deposits (B2) (Riverine)				
High Water Table (A2)	Drift Deposits (B3) (Riverine)					
X Saturation (A3)	Drainage Patterns (B10)					
Water Marks (B1) (Nonriverine)	Dry-Season Water Table (C2)					
Sediment Deposits (B2) (Nonriverine)	ng Roots (C3) Thin Muck Surface (C7)					
Drift Deposits (B3) (Nonriverine)	Presence of Reduced Iron (C4)	Crayfish Burrows (C8)				
X Surface Soil Cracks (B6)	Soils (C6) Saturation Visible on Aerial Imagery (C9)					
Inundation Visible on Aerial Imagery (B7)	Shallow Aquitard (D3)					
Water-Stained Leaves (B9)		FAC-Neutral Test (D5)				
Field Observations:						
Surface Water Present? Yes No _	Depth (inches):					
Water Table Present? Yes No _	Depth (inches):					
Saturation Present? Yes X No	Depth (inches): <u>6-12</u>	_ Wetland Hydrology Present? Yes <u>×</u> No				
(includes capillary fringe)						
Describe Recorded Data (stream gauge, monitor	ring well, aerial photos, previous inspec	tions), if available:				
Remarks:						
Indicators of hydrology evident in saturation	at 6-12 inches. Salt crust is relictu	al in nature. Hydrologic indicators present.				
,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		,				
Project/Site: Pond 20	City	//County: Imper	ial Beach/S	an Diego	Sampling D	_{Date:} 6/30/08
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Applicant/Owner: Port of San Diego			S	tate: CA	Sampling F	oint: DP20/PP20
Investigator(s): Keith Merkel/Rebecca Erickson/Eileen Ma	aher _{Se}	ction, Township,	Range: S20	; T18S; R2W		
Landform (hillslope, terrace, etc.): salt panne	Lo	cal relief (concav	ve, convex, r	_{ione):} none		_ Slope (%): <u>0%</u>
Subregion (LRR): C	Lat: 629884	41.57354	Long: 1	794537.74461		Datum: NAD83
Soil Map Unit Name: Drainage/perennial				NWI classific	ation: PEM	h
Are climatic / hydrologic conditions on the site typical for this time of year? Yes No (If no, explain in Remarks.) Are VegetationNo, SoilNo, or HydrologyNo significantly disturbed? Are "Normal Circumstances" present? Yes Xo Are VegetationNo, SoilNo, or HydrologyNo naturally problematic? (If needed, explain any answers in Remarks.) SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.						
Hydrophytic Vegetation Present? Yes No Hydric Soil Present? Yes No Wetland Hydrology Present? Yes No	×	Is the Samp within a We	led Area tland?	Yes	<u>× _{No}</u>	
Remarks: ACOE/CCC jurisdictional. See hyrdology notes.		·				

	Absolute	Dominant	Indicator	Dominance Test worksheet:
<u>Tree Stratum</u> (Use scientific names.)	<u>% Cover</u>	Species?	Status	Number of Dominant Species
1				That Are OBL, FACW, or FAC: (A)
2				Total Number of Dominant
3				Species Across All Strata: (B)
4				
Total Cover:				Percent of Dominant Species
Sapling/Shrub Stratum	·			
1. <u>-</u>				Prevalence Index worksheet:
2.				Total % Cover of:Multiply by:
3.				OBL species x 1 =
4				FACW species x 2 =
5				FAC species x 3 =
J				FACU species x 4 =
Herb Stratum				
1				Column Tatalar (A)
2				
2				Prevalence Index = B/A =
3				Hydrophytic Vegetation Indicators:
4				Dominance Test is >50%
5				
6				$ = Prevalence index is \leq 3.0 $
7	<u> </u>		. <u> </u>	Morphological Adaptations" (Provide supporting data in Remarks or on a separate sheet)
8				Problematic Hydrophytic Vegetation ¹ (Explain)
Total Cover:				
Woody Vine Stratum				
1				be present
2				
Total Cover:				Hydrophytic
% Bare Ground in Herb Stratum % Cover	of Biotic C	rust		Present? Yes No X
Pomarke:	0. 2.040 0.			
Remarks.				
No vegetation present.				

Profile Desc	cription: (Describe to	o the depth	needed to docun	nent the i	ndicator	or confirm	the absence	of indicators.)		
Depth	Matrix Redox Features									
(inches)	Color (moist)	%	<u>Color (moist) % Type¹ Loc²</u>				Texture	Remarks		
0-6								Salt		
6-12	7.5 YR 2.5/1							Silty clay		
¹ Type: C=C	oncentration, D=Deple	etion, RM=R	educed Matrix.	² Location	: PL=Por	e Lining, R	C=Root Chanr	nel, M=Matrix.		
Hydric Soil	Indicators: (Applica	ble to all LF	RRs, unless other	wise note	ed.)		Indicators	for Problematic Hydric Soils ³ :		
Histosol	(A1)		Sandy Redo	ox (S5)			1 cm N	1uck (A9) (LRR C)		
Histic E	pipedon (A2)		Stripped Ma	atrix (S6)			2 cm N	luck (A10) (LRR B)		
Black H	istic (A3)		Loamy Muc	ky Mineral	(F1)		Reduce	ed Vertic (F18)		
Hydroge	en Sulfide (A4)		Loamy Gleyed Matrix (F2)				Red Parent Material (TF2)			
Stratifie	d Layers (A5) (LRR C)	× Depleted Matrix (F3)				Other (Explain in Remarks)			
1 cm Mi	uck (A9) (LRR D)		 Redox Dark	Surface (F6)			, , , , , , , , , , , , , , , , , , ,		
Deplete	d Below Dark Surface	(A11)	× Depleted Da	ark Surfac	e (F7)					
Thick D	ark Surface (A12)		Redox Depr	essions (F	-8)					
Sandy M	Aucky Mineral (S1)		Vernal Pools (E9)				³ Indicators of hydrophytic vegetation and			
Sandy (Gleved Matrix (S4)			0 (1 0)			wetland hydrology must be present			
Restrictive	Layer (if present):						Wolland			
Туре:										
Depth (in	ches):						Hydric Soil	Present? Yes <u>×</u> No		
Remarks:										
l budula a cita	avidant in C 10"									
Hydric solls	evident in 6-12".									

Wetland Hydrology Indicator	s:		Secondary Indicators (2 or more required)
Primary Indicators (any one inc	<u>dicator is sufficier</u>	1t)	Water Marks (B1) (Riverine)
Surface Water (A1)		X Salt Crust (B11)	Sediment Deposits (B2) (Riverine)
High Water Table (A2)		Biotic Crust (B12)	Drift Deposits (B3) (Riverine)
Saturation (A3)		Aquatic Invertebrates (B13)	Drainage Patterns (B10)
Water Marks (B1) (Nonriv	erine)	Hydrogen Sulfide Odor (C1)	Dry-Season Water Table (C2)
Sediment Deposits (B2) (N	lonriverine)	Oxidized Rhizospheres along Livir	ng Roots (C3) Thin Muck Surface (C7)
Drift Deposits (B3) (Nonriv	verine)	Crayfish Burrows (C8)	
X Surface Soil Cracks (B6)		Recent Iron Reduction in Plowed S	Soils (C6) Saturation Visible on Aerial Imagery (C9)
X Inundation Visible on Aeria	al Imagery (B7)	\underline{X} Other (Explain in Remarks)	Shallow Aquitard (D3)
Water-Stained Leaves (B9))		FAC-Neutral Test (D5)
Field Observations:			
Surface Water Present?	Yes No	Depth (inches):	
Water Table Present?	Yes <u>No</u>	Depth (inches):	
Saturation Present? (includes capillary fringe)	Yes No	Depth (inches):	Wetland Hydrology Present? Yes <u>×</u> No
Describe Recorded Data (strea	am gauge, monito	pring well, aerial photos, previous inspec	tions), if available:
Remarks:			
2005 Aerial Imagery and rair	nfall data. Hydi	rology present.	

Project/Site: Pond 20	City/County: Imp	perial Beach/San Diego	_ Sampling Date: 7/1/08
Applicant/Owner: Port of San Diego		State: CA	_ Sampling Point: DP21/PP21
Investigator(s): Rebecca Erickson/Brad Kelly	Section, Townsh	пір, _{Range:} <u>S20;</u> T18S; R2W	I
Landform (hillslope, terrace, etc.): bank	Local relief (con	icave, convex, none): none	Slope (%): <u>45%</u>
Subregion (LRR): C	Lat: <u>6298522.43715</u>	Long: <u>1793453.414</u>	91 Datum: NAD83
Soil Map Unit Name: Drainage/perennial		NWI classi	_{fication:} Upland
Are climatic / hydrologic conditions on the site typical for this ti Are Vegetation <u>No</u> , Soil <u>No</u> , or Hydrology <u>No</u> sign	ime of year? Yes X	No (If no, explain in Are "Normal Circumstances"	Remarks.) ' present? Yes <u>X</u> No
Are Vegetation <u>No</u> , Soil <u>No</u> , or Hydrology <u>No</u> nat	urally problematic?	(If needed, explain any answ	vers in Remarks.)
SUMMARY OF FINDINGS – Attach site map sh	nowing sampling po	oint locations, transect	ts, important features, etc.
Hydrophytic Vegetation Present? Yes No _ Hydric Soil Present? Yes No _ Wetland Hydrology Present? Yes No _	X X X X Within a	mpled Area Wetland? Yes	No <u>X</u>

Remarks:

Non-jurisdictional.

	Absolute	Dominant	Indicator	Dominance Test worksheet:
<u>Tree Stratum</u> (Use scientific names.) 1	% Cover	Species?	Status	Number of Dominant Species That Are OBL, FACW, or FAC:0 (A)
2				Total Number of Dominant
3				Species Across All Strata: 0 (B)
4				
Total Cover:				Percent of Dominant Species
Sapling/Shrub Stratum				
1				Prevalence Index worksheet:
2				Total % Cover of: Multiply by:
3				OBL species x 1 =
4.				FACW species x 2 =
5				FAC species <5 x 3 = <15
Total Cover			·	FACU species x 4 =
Herb Stratum				UPL species x 5 =
1. Glebionis coronarium	<5	No	UPL	Column Totals: (A) (B)
2. Nicotiana glauca	<5	No	FAC	
3. Voucher #I (exotic ornan)	<5	No	UPL	Prevalence Index = B/A =>3
4				Hydrophytic Vegetation Indicators:
5				Dominance Test is >50%
6				Prevalence Index is ≤3.0 ¹
7				Morphological Adaptations ¹ (Provide supporting
8				data in Remarks or on a separate sheet)
Total Cover:	15%			Problematic Hydrophytic Vegetation (Explain)
Woody Vine Stratum				
1				¹ Indicators of hydric soil and wetland hydrology must
2				be present.
Total Cover:				Hydrophytic
% Bare Ground in Herb Stratum85% % Cover	of Biotic C	rust		Present? Yes <u>No X</u>
Remarks:				
DP21 on bank in disturbed upland. No hydrophytic vo	egetation.			

Profile Des	cription: (Describe t	o the depth I	needed to docur	ment the ir	ndicator	or confirm	the absence of i	indicators.)		
Depth	Matrix		Redo	x Features	;					
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remark	s	
0-12	7.5 YR 3/2							Loamy sand		
		·			·					
										<u> </u>
						<u> </u>				<u> </u>
¹ Type: C=C	oncentration. D=Deple	etion. RM=Re	duced Matrix.	² Location:	PL=Por	e Linina. R	C=Root Channel.	M=Matrix.		
Hydric Soil	Indicators: (Applica	ble to all LR	Rs, unless othe	rwise note	ed.)	- <u></u> ,	Indicators for	Problematic Hydr	ic Soils ³ :	
Histoso	l (A1)		Sandy Red	ox (S5)			1 cm Muc	k (A9) (LRR C)		
Histic E	pipedon (A2)		Stripped Ma	atrix (S6)			2 cm Muck (A10) (LRR B)			
Black H	istic (A3)		Loamy Muc	ky Mineral	(F1)		Reduced Vertic (F18)			
Hydroge	en Sulfide (A4)		Loamy Gle	yed Matrix	(F2)		Red Parent Material (TF2)			
Stratifie	d Layers (A5) (LRR C)	Depleted M	latrix (F3)			Other (Ex	plain in Remarks)		
1 cm Mi	uck (A9) (LRR D)		Redox Dark	< Surface (F6)					
Deplete	d Below Dark Surface	(A11)	Depleted D	ark Surface	e (F7)					
Thick D	ark Surface (A12)		Redox Dep	ressions (F	-8)		3			
Sandy N	Mucky Mineral (S1)		Vernal Poo	ls (F9)			Indicators of hydrophytic vegetation and			
Sandy C	Sleyed Matrix (S4)						wetland hyd	drology must be pre	sent.	
Restrictive	Layer (if present):									
Туре:			_							\sim
Depth (in	iches):		_				Hydric Soil Pre	esent? Yes	No	
Remarks:										
No rodov co	ncontrations visible		tore of hydric e	oile						
NO TEUDX CO				0115.						
HYDROLO	OGY									
Wetland Hy	drology Indicators:						Seconda	ry Indicators (2 or m	ore require	ed)
Primary Indi	cators (any one indica	tor is sufficie	nt)				Wate	er Marks (B1) (Rive r	ine)	

Primary Indicators (any one indicator is sufficien	t)	Water Marks (B1) (Riverine)
Surface Water (A1)	Sediment Deposits (B2) (Riverine)	
High Water Table (A2)	Drift Deposits (B3) (Riverine)	
Saturation (A3)	Aquatic Invertebrates (B13)	Drainage Patterns (B10)
Water Marks (B1) (Nonriverine)	Dry-Season Water Table (C2)	
Sediment Deposits (B2) (Nonriverine)	Oxidized Rhizospheres along Livi	ng Roots (C3) Thin Muck Surface (C7)
Drift Deposits (B3) (Nonriverine)	Presence of Reduced Iron (C4)	Crayfish Burrows (C8)
Surface Soil Cracks (B6)	Recent Iron Reduction in Plowed	Soils (C6) Saturation Visible on Aerial Imagery (C9)
Inundation Visible on Aerial Imagery (B7)	Shallow Aquitard (D3)	
Water-Stained Leaves (B9)		FAC-Neutral Test (D5)
Field Observations:		
Surface Water Present? Yes No _	Depth (inches):	
Water Table Present? Yes No _	Depth (inches):	
Saturation Present? Yes <u>No</u> (includes capillary fringe)	Depth (inches):	Wetland Hydrology Present? Yes NoX
Describe Recorded Data (stream gauge, monito	ring well, aerial photos, previous inspec	ctions), if available:
Remarks:		
No hydrology indicators present.		

Project/Site: Pond 20	City/County: Imperial Beach/San Diego Sampling Date: 7/1/08				
Applicant/Owner: Port of San Diego	State: CA Sampling Point: DP22/PP22				
Investigator(s): Rebecca Erickson/Brad Kelly	Section, Township, Range: <u>S20; T18S; R2W</u>				
Landform (hillslope, terrace, etc.): marsh	Local relief (concave, convex, none): <u>concave</u> Slope (%): <u>0%</u>				
Subregion (LRR): C	98521.44964 Long: 1793452.26708 Datum: NAD83				
Soil Map Unit Name: Drainage/perennial	NWI classification: Upland				
Are climatic / hydrologic conditions on the site typical for this time of year? Yes <u>X</u> No (If no, explain in Remarks.)					
Are Vegetation <u>No</u> , Soil <u>No</u> , or Hydrology <u>No</u> naturally pro	oblematic? Are Normal Circumstances present? Yes No oblematic? (If needed, explain any answers in Remarks.)				
SUMMARY OF FINDINGS – Attach site map showing	g sampling point locations, transects, important features, etc.				
Hydrophytic Vegetation Present? Yes X No Hydric Soil Present? Yes X No Wetland Hydrology Present? Yes X No Remarks: K K K K	Is the Sampled Area within a Wetland? Yes <u>X</u> No				

Freshwater marsh jurisdictional under ACOE, CCC.

	Absolute	Dominant	Indicator	Dominance Test worksheet:
Tree Stratum (Use scientific names.)	% Cover	Species?	Status	Number of Dominant Species
1				That Are OBL, FACW, or FAC: (A)
2				Total Number of Dominant
3				Species Across All Strata: 2 (B)
4.				
Total Cover:				Percent of Dominant Species
Sapling/Shrub Stratum				
1				Prevalence Index worksheet:
2.				Total % Cover of: Multiply by:
3				OBL species $105 \times 1 = 105$
۰				EACW species $50 \times 2 = 100$
4:			·	
D			<u> </u>	
Lotal Cover:				FACU species x 4 =
₁ Typha latifolia	100	Yes	OBL	UPL species x 5 =
Cyperus eragostis	50	Yes	FACW	Column Totals: (A) (B)
2. Sarcocarnia pacificia	5	No		$Provolonce Index = P/A = -\frac{1.3}{2}$
		110		
4			<u> </u>	Hydrophytic Vegetation Indicators:
5			. <u> </u>	Dominance Test is >50%
6				Prevalence Index is ≤3.0 ¹
7				Morphological Adaptations ¹ (Provide supporting
8.				data in Remarks or on a separate sheet)
Total Cover:	155%			Problematic Hydrophytic Vegetation' (Explain)
Woody Vine Stratum				
1				¹ Indicators of hydric soil and wetland hydrology must
2.				be present.
Total Cover:				Hydrophytic
% Bare Ground in Herb Stratum % Cover	of Biotic Cı	rust		Present? Yes X No
Remarks:				
Hydrophytic vegetation dominant.				

		p								
Depth (inchoo)	<u>Matrix</u>	0/	Redo	ox Features	Tuno ¹		Toyturo	Bomarka		
0-12	5 YR 2.5/1	70		70	Type	LUC	Sandy clav			
¹ Type: C=C	oncentration, D=Depl	etion, RM=	Reduced Matrix.	² Location:	PL=Pore	e Lining, F	C=Root Channel, M	=Matrix.		
Hydric Soil	Indicators: (Applica	ble to all	LRRs, unless othe	rwise note	d.)		Indicators for Pr	roblematic Hydric Soils':		
Histosol	I (A1)		Sandy Rec	ox (S5)			1 cm Muck (/	A9) (LRR C)		
Histic E	pipedon (A2)		Stripped M	atrix (S6)			2 cm Muck (/	A10) (LRR B)		
Black H	istic (A3)		Loamy Mu	cky Mineral	(F1)		Reduced Ve	rtic (F18)		
X Hydroge	en Sulfide (A4)		Loamy Gle	yed Matrix ((F2)		Red Parent N	Material (TF2)		
<u> </u>	d Layers (A5) (LRR C)	Depleted N	latrix (F3)			Other (Expla	iin in Remarks)		
1 cm Mi	uck (A9) (LRR D)		Redox Dar	k Surface (F	-6)					
Deplete	d Below Dark Surface	(A11)	Depleted D	ark Surface	e (F7)					
Thick D	ark Surface (A12)		Redox Dep	ressions (F	8)					
Sandy M	Mucky Mineral (S1)		Vernal Poo	ls (F9)			³ Indicators of hydrophytic vegetation and			
Sandy (Gleyed Matrix (S4)						wetland hydro	ology must be present.		
Restrictive	Layer (if present):									
Type:										
Depth (in	ches):						Hydric Soil Prese	ent? Yes <u>×</u> No		
Remarks:										
lydrogen s	ulfide odor. High or	ganic coi	ntent. Hydric soil	s present.						

Wetland Hydrology Indicators:	Secondary Indicators (2 or more required)
Primary Indicators (any one indicator is sufficient)	Water Marks (B1) (Riverine)
X Surface Water (A1) Salt Crust (B11)	Sediment Deposits (B2) (Riverine)
High Water Table (A2) Biotic Crust (B12)	Drift Deposits (B3) (Riverine)
X Saturation (A3) Aquatic Invertebrates (B13)	Drainage Patterns (B10)
Water Marks (B1) (Nonriverine) Hydrogen Sulfide Odor (C1)	Dry-Season Water Table (C2)
Sediment Deposits (B2) (Nonriverine) Oxidized Rhizospheres along Livi	ng Roots (C3) Thin Muck Surface (C7)
Drift Deposits (B3) (Nonriverine) Presence of Reduced Iron (C4)	Crayfish Burrows (C8)
Surface Soil Cracks (B6) Recent Iron Reduction in Plowed	Soils (C6) Saturation Visible on Aerial Imagery (C9)
Inundation Visible on Aerial Imagery (B7) Other (Explain in Remarks)	Shallow Aquitard (D3)
Water-Stained Leaves (B9)	FAC-Neutral Test (D5)
Field Observations:	
Surface Water Present? Yes <u>X</u> No Depth (inches): 2	
Water Table Present? Yes No Depth (inches):	
Saturation Present? Yes X No Depth (inches): 0-12 (includes capillary fringe)	Wetland Hydrology Present? Yes <u>×</u> No
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspec	tions), if available:
Remarks:	
2 inches of standing water. DP located in center of stream channel. Channel 1 present.	12 feet wide. Bank to bank ~ 15 feet. Hydrology

Project/Site: Pond 20	(City/County: Impe	erial Beach/S	an Diego	_ Sampling D	Date: 7/1/08	
Applicant/Owner: Port of San Diego			St	_{ate:} CA	_ Sampling F	oint: DP23/PP23	
Investigator(s): Rebecca Erickson/Brad Kelly		Section, Township, Range: S20; T18S; R2W					
Landform (hillslope, terrace, etc.): bank		Local relief (concave, convex, none): none Slope (%):					
Subregion (LRR): C	.at: <u>629</u> 8	298531.03220 Long: 1793460.33389				Datum: NAD83	
Soil Map Unit Name: Drainage/perennial NWI classification: Upland							
Are climatic / hydrologic conditions on the site typical for this time Are Vegetation <u>No</u> , Soil <u>No</u> , or Hydrology <u>No</u> signifi Are Vegetation <u>No</u> , Soil <u>No</u> , or Hydrology <u>No</u> natura SUMMARY OF FINDINGS – Attach site map sho	ne of yea ficantly o rally pro owing	ar? Yes <u>X</u> disturbed? blematic? sampling po	No (If Are "Normal C (If needed, ex i nt location	no, explain in F Circumstances" plain any answe is, transect e	Remarks.) present? Ye ers in Remarl s, importa	es <u>×</u> No ks.) nt features, etc.	
Hydrophytic Vegetation Present? Yes No Hydric Soil Present? Yes No Wetland Hydrology Present? Yes No Remarks: Image: Constraint of the second s	× × ×	Is the Sam within a W	opled Area /etland?	Yes	No	<u>×</u>	

DP23 located in upland habitat on bank of channel. Non-jurisdictional.

	Absolute	Dominant	Indicator	Dominance Test worksheet:		
<u>Tree Stratum</u> (Use scientific names.)	<u>% Cover</u>	Species?	Status	Number of Dominant Species	0	
1. <u>-</u>			·	That Are OBL, FACW, or FAC:	0	(A)
2			<u> </u>	Total Number of Dominant		
3			·	Species Across All Strata:	1	(B)
4				Percent of Dominant Species		
Total Cove	ər:	<u>-</u>		That Are OBL, FACW, or FAC:	0	(A/B)
Sapling/Shrub Stratum						```
1				Prevalence Index worksheet:		
2				Total % Cover of: Mult	tiply by:	-
3				OBL species x 1 =		
4				FACW species x 2 =		
5.				FAC species 5 x 3 =	15	
Total Cove				FACU species 80 x 4 =	320	
Herb Stratum		•		UPL species $5 \times 5 =$	25	
_{1.} Mesembryanthemum nodiflorum	80	Yes	FACU	$\frac{1}{2} \frac{1}{2} \frac{1}$	360	(B)
2. Ambrosia psilostachya	5	No	FAC			(D)
3. Glebioinis coronarium	<5	No.	UPL	Prevalence Index = B/A =	4.0	-
4.				Hydrophytic Vegetation Indicators:		
5				Dominance Test is >50%		
6				Prevalence Index is $\leq 3.0^{1}$		
7				Morphological Adaptations ¹ (Provi	de supporti	na
7				data in Remarks or on a separa	ate sheet)	.5
8	90%			Problematic Hydrophytic Vegetatic	on ¹ (Explain)
Woody Vine Stratum	r:					
				¹ Indicators of hydric soil and wetland h	vdrology mi	ust
1				be present.	jarologj in	
2						
Total Cove	؛r :	•		Hydropnytic Vegetation		
% Bare Ground in Herb Stratum <u>10%</u> % Cove	er of Biotic C	rust		Present? Yes No	<u>×</u>	
Remarks:						
DB22 on bank (horm) Hydronhytia vagatation not a	lominant					
DP23 of bank (bern). Hydrophylic vegetalion nol c	iominant.					

Depth	Matrix		Redo	x Features	s					
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remar	ks	
)-12	7.5 YR 3/2							Sar	ndy loam	
							·			
		·					·			
Type: C=C	Concentration, D=Depl	etion, RM=	Reduced Matrix.	² Location	: PL=Por	e Lining, F	RC=Root Channel, M	=Matrix.		
lydric Soil	I Indicators: (Applica	ble to all	LRRs, unless othe	rwise note	ed.)		Indicators for P	roblematic Hyd	Iric Soils ³ :	
Histoso	ol (A1)		Sandy Redox (S5)				1 cm Muck (A9) (LRR C)			
Histic E	Epipedon (A2)		Stripped Matrix (S6)				2 cm Muck (A10) (LRR B)			
Black H	Histic (A3)		Loamy Mucky Mineral (F1)				Reduced Vertic (F18)			
Hydrog	en Sulfide (A4)		Loamy Gleved Matrix (F2)				Red Parent Material (TF2)			
Stratifie	ed Lavers (A5) (LRR C	:)	Depleted Matrix (F3)				Other (Explain in Remarks)			
 1 cm M	luck (A9) (LRR D)	,	Redox Dark	Surface ((F6)			,		
Deplete	ed Below Dark Surface	e (A11)	Depleted D	ark Surfac	e (F7)					
Thick D)ark Surface (A12)	()	Redox Dep	ressions (I	F8)					
Sandy	Mucky Mineral (S1)		Vernal Pool	s (F9)	,		³ Indicators of hyd	drophytic vegeta	tion and	
Sandy	Gleved Matrix (S4)		<u> </u>				wetland hvdro	ploav must be pr	esent.	
Restrictive	Layer (if present):							3,		
Type:										
Depth (ir	nches):						Hydric Soil Pres	ent? Yes	No	

Wetland Hydrology Indicat	ors:			Secondary Indicators (2 or more required)			
Primary Indicators (any one i	ndicator is sufficient)			Water Marks (B1) (Riverine)			
Surface Water (A1)	_	_ Salt Crust (B11)		Sediment Deposits (B2) (Riverine)			
High Water Table (A2)	_	Biotic Crust (B12)		Drift Deposits (B3) (Riverine)			
Saturation (A3)	_	_ Aquatic Invertebrates (B13)		Drainage Patterns (B10)			
Water Marks (B1) (Nonr	iverine)	_ Hydrogen Sulfide Odor (C1)		Dry-Season Water Table (C2)			
Sediment Deposits (B2)	(Nonriverine)	_ Oxidized Rhizospheres along Livi	ng Roots (C3)	ts (C3) Thin Muck Surface (C7)			
Drift Deposits (B3) (Nonriverine) Presence of Reduced Iron (C4)				Crayfish Burrows (C8)			
Surface Soil Cracks (B6))	_ Recent Iron Reduction in Plowed	Soils (C6)	Saturation Visible on Aerial Imagery (C9)			
Inundation Visible on Ae	rial Imagery (B7)	Other (Explain in Remarks)		Shallow Aquitard (D3)			
Water-Stained Leaves (B	39)			FAC-Neutral Test (D5)			
Field Observations:							
Surface Water Present?	Yes No	Depth (inches):					
Water Table Present?	Yes No	Depth (inches):					
Saturation Present? (includes capillary fringe)	Yes No	Depth (inches):	Wetland Hy	drology Present? Yes NoX			
Describe Recorded Data (str	eam gauge, monitoring	g well, aerial photos, previous inspec	ctions), if availa	ble:			
Remarks:							
DP23 located on bank of c	hannel in disturbed i	unland vegetation No hydrologi	ic indicators r	vresent			

Project/Site: Pond 20	_ City/County: Imperial Beach/San Diego Sampling Date: 7/1/08	
Applicant/Owner: Port of San Diego	State: CA Sampling Point: DP24/PP2	24
Investigator(s): Rebecca Erickson/Brad Kelly	_ Section, Township, Range: <u>S20;</u> T18S; R2W	
Landform (hillslope, terrace, etc.): bank	_ Local relief (concave, convex, none): <u>none</u> Slope (%): <u>~3</u>	5%
Subregion (LRR): C Lat: 62	298458.73172 Long: <u>1794130.88929</u> Datum: <u>NAD83</u>	}
Soil Map Unit Name: Huerhuero-Urban land complex	NWI classification: Upland	
Are climatic / hydrologic conditions on the site typical for this time of y Are Vegetation <u>No</u> , Soil <u>No</u> , or Hydrology <u>No</u> significantly Are Vegetation <u>No</u> , Soil <u>No</u> , or Hydrology <u>No</u> naturally pu SUMMARY OF FINDINGS – Attach site map showing	year? Yes X No (If no, explain in Remarks.) ly disturbed? Are "Normal Circumstances" present? Yes X No (If needed, explain any answers in Remarks.) oroblematic? (If needed, explain any answers in Remarks.)	etc.
Hydrophytic Vegetation Present? Yes No Hydric Soil Present? Yes No Wetland Hydrology Present? Yes No Remarks: Yes No	Is the Sampled Area within a Wetland? Yes <u>No X</u>	

Non-jurisdictional.

	Absolute	Dominant	Indicator	Dominance Test worksheet:	
<u>Tree Stratum</u> (Use scientific names.)	<u>% Cover</u>	Species?	Status	Number of Dominant Species	
1					,
2				Total Number of Dominant	
3	·			Species Across All Strata: (B))
4				Percent of Dominant Species	
Total Cover:				That Are OBL, FACW, or FAC: (A/	′B)
1 -				Prevalence Index worksheet	
2				Total % Cover of Multiply by:	
2				OBL species x1=	
S:					
4					
5					
Herb Stratum	·	i i		FACU species	
1 ⁻				UPL species x 5 = 0.1	
۱ ۲				Column Totais: (A) (E	3)
2				Prevalence Index = B/A =	
З				Hydrophytic Vegetation Indicators:	
4				Dominance Test is >50%	
o				$\frac{1}{2} = \frac{1}{2} $	
o				Morphological Adaptations ¹ (Provide supporting	
<i>1</i>				data in Remarks or on a separate sheet)	
8	······			Problematic Hydrophytic Vegetation ¹ (Explain)	
Woody Vine Stratum					
				¹ Indicators of hydric soil and wetland hydrology must	
2				be present.	
Total Cover:	:			Hydrophytic	
% Bare Ground in Herb Stratum % Cover	of Biotic C	rust		Vegetation Present? Yes <u>No X</u>	
Remarks:					
I presentated harm along. No vegetation present					
onvegetated bern slope. No vegetation present.					

Profile Desc	ription: (Describe to	o the depth n	eeded to docur	nent the ir	ndicator o	or confirm	the absence of	indicators.)
Depth	Matrix		Redo	x Features				
(inches)	Color (moist)	% (<u>Color (moist)</u>	%	Type ¹	Loc ²	Texture	Remarks
0-12	2.5 YR 4/1							Silty clay loam
		·			<u> </u>	·		
·								
¹ Type: C=C	oncentration, D=Deple	tion, RM=Red	duced Matrix.	² Location:	PL=Pore	e Lining, R	C=Root Channel	l, M=Matrix.
Hydric Soil	Indicators: (Applica	ble to all LRF	Rs, unless othe	rwise note	ed.)		Indicators fo	r Problematic Hydric Soils ³ :
Histosol	(A1)		Sandy Red	ox (S5)			1 cm Mu	ck (A9) (LRR C)
Histic Ep	pipedon (A2)		Stripped Ma	atrix (S6)			2 cm Mu	ck (A10) (LRR B)
Black Hi	stic (A3)		Loamy Muc	ky Mineral	(F1)		Reduced	Vertic (F18)
Hydroge	n Sulfide (A4)		Loamy Gley	yed Matrix	(F2)		Red Pare	ent Material (TF2)
Stratified	Layers (A5) (LRR C)	X Depleted M	atrix (F3)			Other (Ex	xplain in Remarks)
1 cm Mu	ick (A9) (LRR D)		X Redox Dark	surface (F6)			
Depleted	d Below Dark Surface	(A11)	Depleted D	ark Surface	e (F7)			
Thick Da	ark Surface (A12)		Redox Dep	ressions (F	8)			
Sandy M	lucky Mineral (S1)		Vernal Pool	ls (F9)			³ Indicators of	hydrophytic vegetation and
Sandy G	eleyed Matrix (S4)						wetland hy	ydrology must be present.
Restrictive I	_ayer (if present):							
Type:			_					
Depth (in	ches):		-				Hydric Soil Pr	resent? Yes <u>X</u> No
Remarks:								
Hvdric soil p	resent.							
, ,								
HYDROLO	GY							

Wetland Hydrology Indicators:			Secondary Indicators (2 or more required)
Primary Indicators (any one indicate	or is sufficient))	Water Marks (B1) (Riverine)
Surface Water (A1)		Salt Crust (B11)	Sediment Deposits (B2) (Riverine)
High Water Table (A2)		Biotic Crust (B12)	Drift Deposits (B3) (Riverine)
Saturation (A3)		Aquatic Invertebrates (B13)	Drainage Patterns (B10)
Water Marks (B1) (Nonriverin	e)	Hydrogen Sulfide Odor (C1)	Dry-Season Water Table (C2)
Sediment Deposits (B2) (Nonr	iverine)	Oxidized Rhizospheres along Liv	ving Roots (C3) Thin Muck Surface (C7)
Drift Deposits (B3) (Nonriverir	ne)	Crayfish Burrows (C8)	
Surface Soil Cracks (B6)		Recent Iron Reduction in Plowed	d Soils (C6) Saturation Visible on Aerial Imagery (C9)
Inundation Visible on Aerial Im	agery (B7)	Other (Explain in Remarks)	Shallow Aquitard (D3)
Water-Stained Leaves (B9)			FAC-Neutral Test (D5)
Field Observations:			
Surface Water Present? Yes	s No	Depth (inches):	
Water Table Present? Yes	s No	Depth (inches):	
Saturation Present? Yes (includes capillary fringe)	s No	Depth (inches):	Wetland Hydrology Present? Yes No
Describe Recorded Data (stream g	auge, monitori	ing well, aerial photos, previous inspe	ections), if available:
Remarks:			
No evidence of hydrology.			

Project/Site: Pond 20	_ City/County: Imperial Beach/San Diego Sampling Date: 7/1/08
Applicant/Owner: Port of San Diego	State: CA Sampling Point: DP25/PP25
Investigator(s): Rebecca Erickson/Brad Kelly	_ Section, Township, Range: S20; T18S; R2W
Landform (hillslope, terrace, etc.): bank	Local relief (concave, convex, none): none Slope (%): 25%
Subregion (LRR): C	298456.09291 Long: <u>1794130.04729</u> Datum: <u>NAD83</u>
Soil Map Unit Name: Huerhuero-Urban land complex	NWI classification: Upland
Are climatic / hydrologic conditions on the site typical for this time of Are Vegetation <u>No</u> , Soil <u>No</u> , or Hydrology <u>No</u> significan Are Vegetation <u>No</u> , Soil <u>No</u> , or Hydrology <u>No</u> naturally	year? Yes X No (If no, explain in Remarks.) tly disturbed? Are "Normal Circumstances" present? Yes X problematic? (If needed, explain any answers in Remarks.)
SUMMARY OF FINDINGS – Attach site map showing	ng sampling point locations, transects, important features, etc.
Hydrophytic Vegetation Present? Yes X No Hydric Soil Present? Yes X No Wetland Hydrology Present? Yes X No	─ Is the Sampled Area ─ within a Wetland? Yes <u>×</u> No

Remarks:

ACOE/CCC jurisdictional.

Tree Stratum (Use scientific names.) % Cover Species? Status Number of Dominant Species 1 (A) 2.
1.
2.
3.
4. Total Cover: Percent of Dominant Species Sapling/Shrub Stratum Total Cover: That Are OBL, FACW, or FAC: 100 (A/B) 1. Prevalence Index worksheet: Total % Cover of: Multiply by: (A/B) 2. Image: Cover of: Multiply by: (A/B) 3. Image: Cover of: Multiply by: (A/B) 4. Image: Cover of: Multiply by: (A/B) 5. Image: Cover of: Multiply by: (A/B) FACW species 10 x 1 = 40 (A/B) FACW species 10 x 2 = 20 (A/B) FACW species 10 x 3 =
Total Cover:
Sapling/Shrub Stratum Prevalence Index worksheet: 1
Prevalence Index worksheet: 2.
2.
3.
4.
5.
Total Cover:FACU speciesx 4 =Herb Stratum30YesOBLOBLUPL speciesx 5 =OBL1. Sarcocornia pacifica30YesOBLOBLOBL Ves OBL Ves OBL Ves
Herb Stratum 30 Yes OBL UPL species x 5 = 60 (B) 1 Sarcocornia pacifica 10 No OBL Column Totals: 50 (A) 60 (B) 2 Batis maritima 10 No OBL Prevalence Index = B/A = 1.2 3. Frankenia salina 10 No FACW Prevalence Index = B/A = 1.2 4.
1. Sarcocornia pacifica 30 Yes OBL Column Totals: 50 (A) 60 (B) 2. Batis maritima 10 No OBL OBL Prevalence Index = B/A = 1.2 3. Frankenia salina 10 No FACW Prevalence Index = B/A = 1.2 4.
2. Batis maritima 10 No OBL OBL Obtain rotation (r) (r)
3. Frankenia salina 10 No FACW Prevalence Index = B/A = 4
4 Hydrophytic Vegetation Indicators: 5 Dominance Test is >50%
5 Dominance Test is >50%
6. <u>×</u> Prevalence Index is ≤3.0 ¹
7 Morphological Adaptations ¹ (Provide supporting
data in Remarks or on a separate sheet)
Total Cover: 50% Problematic Hydrophytic Vegetation ¹ (Explain)
Woody Vine Stratum
¹ Indicators of hydric soil and wetland hydrology must
2. be present.
Total Cover: Hydrophytic
% Bare Ground in Herb Stratum <u>50%</u> % Cover of Biotic Crust Present? Yes X No
Remarks:
hydrophytic vegetation dominant

Profile Des	cription: (Describe t	o the depth	needed to docum	nent the i	ndicator	or confirm	the absence of	indicators.)		
Depth	Matrix		Redox	k Features	6					
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Rema	rks	
0-12	2.5 YR 4/1		Silty clay I							
0-12	2.5 YR 4/1		educed Matrix. Rs, unless other Sandy Redo Characteria Stripped Ma Loamy Much Characteria Coamy Gley	² Location wise note (S5) trix (S6) ky Mineral ed Matrix	 		C=Root Channel Indicators fo 1 cm Mud 2 cm Mud 2 cm Mud Reduced Red Pare	Sil I, M=Matrix. Ir Problematic Hyr ck (A9) (LRR C) ck (A10) (LRR B) I Vertic (F18) ent Material (TF2)	dric Soils ³ :	
Stratifie	d Layers (A5) (LRR C)	Depleted Ma	atrix (F3)	50)		Other (Ex	xplain in Remarks)		
1 cm M	uck (A9) (LRR D) od Below Dark Surface	(A11)	Redox Dark	Surface (F6) e (E7)					
Deplete Thick D	ark Surface (A12)		Redox Depr	essions (F	-8)					
Sandy I	Mucky Mineral (S1)		Vernal Pools	s (F9)	-,		³ Indicators of	hydrophytic vegeta	ation and	
Sandy (Gleyed Matrix (S4)						wetland hy	ydrology must be p	resent.	
Restrictive	Layer (if present):									
Туре:			_							
Depth (in	iches):		_				Hydric Soil Pr	resent? Yes	<u> </u>	
Remarks:							1			
Hydric soil p	present. Large sand	d deposits th	nroughout matrix	k. Data F	Point at to	oe of berr	n slope.			

Wetland Hydrology Indicators:		Secondary Indicators (2 or more required)			
Primary Indicators (any one indicator is sufficient	t)	Water Marks (B1) (Riverine)			
Surface Water (A1)	X Salt Crust (B11)	Sediment Deposits (B2) (Riverine)			
High Water Table (A2)	Biotic Crust (B12)	Drift Deposits (B3) (Riverine)			
Saturation (A3)	Saturation (A3) Aquatic Invertebrates (B13)				
Water Marks (B1) (Nonriverine)	Hydrogen Sulfide Odor (C1)	Dry-Season Water Table (C2)			
Sediment Deposits (B2) (Nonriverine)	ng Roots (C3) Thin Muck Surface (C7)				
Drift Deposits (B3) (Nonriverine)	Crayfish Burrows (C8)				
Surface Soil Cracks (B6)	Recent Iron Reduction in Plowed	Soils (C6) Saturation Visible on Aerial Imagery (C9)			
Inundation Visible on Aerial Imagery (B7)	Other (Explain in Remarks)	Shallow Aquitard (D3)			
Water-Stained Leaves (B9)		FAC-Neutral Test (D5)			
Field Observations:					
Surface Water Present? Yes No _	Depth (inches):				
Water Table Present? Yes No _	Depth (inches):				
Saturation Present? Yes <u>No</u> (includes capillary fringe)	Wetland Hydrology Present? Yes <u>×</u> No				
Describe Recorded Data (stream gauge, monito	ring well, aerial photos, previous inspec	tions), if available:			
Remarks:					
Covered in salt crust Hydrologic indicators	nresent				
	present.				
Remarks: Covered in salt crust. Hydrologic indicators	present.	ations <i>)</i> , if available:			

Project/Site: Pond 20	City/County: Imperial Beach/San Diego Sampling Date: 7/1/08
Applicant/Owner: Port of San Diego	State: CA Sampling Point: DP26/PP26
Investigator(s): Rebecca Erickson/Brad Kelly	Section, Township, Range: S20; T18S; R2W
Landform (hillslope, terrace, etc.): bank	Local relief (concave, convex, none): none Slope (%): 20%
Subregion (LRR): C Lat: 62	98445.33995 Long: 1794129.72810 Datum: NAD83
Soil Map Unit Name: Huerhuero-Urban land complex	NWI classification: Upland
Are climatic / hydrologic conditions on the site typical for this time of year Vegetation <u>No</u> , Soil <u>No</u> , or Hydrology <u>No</u> significantly Are Vegetation <u>No</u> , Soil <u>No</u> , or Hydrology <u>No</u> naturally pr	ear? Yes X No (If no, explain in Remarks.) y disturbed? Are "Normal Circumstances" present? Yes X roblematic? (If needed, explain any answers in Remarks.) g sampling point locations, transects, important features, etc.
Hydrophytic Vegetation Present? Yes X No Hydric Soil Present? Yes X No Wetland Hydrology Present? Yes X No	Is the Sampled Area within a Wetland? Yes <u>X</u> No

Remarks:

ACOE/CCC jurisdictional.

	Absolute	Dominant	Indicator	Dominance Test worksheet:
<u>Tree Stratum</u> (Use scientific names.) 1. <u>-</u>	% Cover	Species?	Status	Number of Dominant Species That Are OBL, FACW, or FAC:1 (A)
2 3				Total Number of Dominant Species Across All Strata:1 (B)
4 Total Cover: Sapling/Shrub Stratum				Percent of Dominant Species That Are OBL, FACW, or FAC:100 (A/B)
1				Prevalence Index worksheet:
2				Total % Cover of: Multiply by:
3.				$\frac{1}{\text{OBL species}} \frac{100}{x 1} = \frac{100}{x 1}$
4				FACW species x 2 =
5				FAC species x 3 =
Total Cover:				FACU species x 4 =
Herb Stratum				UPL species x 5 =
_{1.} Sarcocornia pacifica	100	Yes	OBL	Column Totals: (A) (B)
_{2.} Batis maritima	10	No	OBL	
3.				Prevalence Index = B/A =1
4.				Hydrophytic Vegetation Indicators:
5				X Dominance Test is >50%
6				\mathbf{X} Prevalence Index is $\leq 3.0^1$
7.				Morphological Adaptations ¹ (Provide supporting
8			·	data in Remarks or on a separate sheet)
Total Cover:	110%			Problematic Hydrophytic Vegetation ¹ (Explain)
Woody Vine Stratum				
1				¹ Indicators of hydric soil and wetland hydrology must
2.				be present.
Total Cover:				Hydrophytic Vegetation
% Bare Ground in Herb Stratum % Cover	of Biotic C	rust		Present? Yes X No
Remarks:				
Hydrophytic vegetation dominant.				

SOIL

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)										
Depth	Depth Matrix Redox Features									
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture Remarks			
0-12	5 YR 3/1		2.5 YR 4/8	30	D	RC	Silty clay loam	_		
							· ·	_		
								_		
							· ·	—		
·							· ·	—		
·							· ·			
								_		
¹ Type: C=C	oncentration, D=Depl	etion, RM=F	Reduced Matrix.	² Location	n: PL=Po	ore Lining, F	RC=Root Channel, M=Matrix.			
Hydric Soil	Indicators: (Applica	ible to all L	RRs, unless othe	rwise not	ed.)		Indicators for Problematic Hydric Soils':			
Histoso	I (A1)		Sandy Red	ox (S5)			1 cm Muck (A9) (LRR C)			
Histic E	pipedon (A2)		Stripped Matrix (S6)				2 cm Muck (A10) (LRR B)			
Black H	istic (A3)		Loamy Mucky Mineral (F1)				Reduced Vertic (F18)			
Hydroge	en Sulfide (A4)		Loamy Gley	ed Matrix	(F2)		Red Parent Material (TF2)			
Stratifie	d Layers (A5) (LRR C)	X Depleted M	atrix (F3)			Other (Explain in Remarks)			
1 cm M	uck (A9) (LRR D)		Redox Dark	surface	(F6)					
Deplete	d Below Dark Surface	(A11)	Depleted D	ark Surfac	ce (F7)					
Thick D	ark Surface (A12)		X Redox Dep	ressions ((F8)					
Sandy M	Mucky Mineral (S1)		Vernal Pool	s (F9)			³ Indicators of hydrophytic vegetation and			
Sandy 0	Gleyed Matrix (S4)						wetland hydrology must be present.			
Restrictive	Layer (if present):									
Туре:							~			
Depth (in	ches):						Hydric Soil Present? Yes <u>^</u> No			
Remarks:										
Root matter	throughout. Root of	channel mo	ottling present. H	Hydric so	ils prese	ent.				
							Occurrent and actions (Occurrent actions)			
	urology indicators:		0				Secondary indicators (2 or more required)			
Primary Indi	Primary Indicators (any one indicator is sufficient)						Water Marks (B1) (Riverine)			

Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Non Sediment Deposits (B2) Drift Deposits (B3) (Nor Surface Soil Cracks (B6) Inundation Visible on A	riverine)) (Nonriverine) hriverine) S) erial Imagery (B7)	 Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Liv Presence of Reduced Iron (C4) Recent Iron Reduction in Plowed Other (Explain in Remarks) 	 Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2) Thin Muck Surface (C7) Crayfish Burrows (C8) Soils (C6) Saturation Visible on Aerial Imagery (C9) Shallow Aquitard (D3)
Water-Stained Leaves ((B9)		FAC-Neutral Test (D5)
Field Observations: Surface Water Present? Water Table Present? Saturation Present? (includes capillary fringe) Describe Recorded Data (st	Yes No Yes No Yes No ream gauge, monit	Depth (inches): Depth (inches): Depth (inches): 0-12 oring well, aerial photos, previous inspe	Wetland Hydrology Present? Yes X No ctions), if available:
Remarks: Hydrology present.			

Project/Site: Pond 20	City/County: Imperial Beach/San Diego Sampling Date: 7/1/08
Applicant/Owner: Port of San Diego	State: CA Sampling Point: DP27/PP27
Investigator(s): Rebecca Erickson/Brad Kelly	Section, Township, Range: S20; T18S; R2W
Landform (hillslope, terrace, etc.): bank	Local relief (concave, convex, none): none Slope (%): ~10%
Subregion (LRR): C Lat: 62	98431.67188 Long: 1794115.82452 Datum: NAD83
Soil Map Unit Name: Huerhuero-Urban land complex	NWI classification: Upland
Are climatic / hydrologic conditions on the site typical for this time of yo	ear? Yes <u>X</u> No (If no, explain in Remarks.)
Are Vegetation <u>No</u> , Soil <u>No</u> , or Hydrology <u>No</u> significantly	y disturbed? Are "Normal Circumstances" present? Yes <u>X</u> No
Are Vegetation <u>No</u> , Soil <u>No</u> , or Hydrology <u>No</u> naturally pr	roblematic? (If needed, explain any answers in Remarks.)
SUMMARY OF FINDINGS – Attach site map showing	g sampling point locations, transects, important features, etc.
Hydrophytic Vegetation Present? Yes X No	
Hydric Soil Present? Yes No	Is the Sampled Area
Wetland Hydrology Present? Yes <u>X</u> No	within a wetland? Yes <u>No</u> No
Remarks:	
DP27 located on west side of channel, on lower bank. ACOE	/CCC jurisdictional.

VEGETATION

	Absolute	Dominant	Indicator	Dominance Test worksheet:
Tree Stratum (Use scientific names.)	<u>% Cover</u>	Species?	Status	Number of Dominant Species
1				That Are OBL, FACW, or FAC: (A)
2				Total Number of Dominant
3				Species Across All Strata: 2 (B)
4.				
Total Cover:				Percent of Dominant Species
Sapling/Shrub Stratum				
1				Prevalence Index worksheet:
2.				Total % Cover of: Multiply by:
3				OBL species $60 \times 1 = 60$
۰				FACW species $50 \times 2 = 100$
+	. <u> </u>			
D			·	
l otal Cover:				FACU species X 4
₁ Sarcocornia pacifica	50	Yes	OBL	UPL species x 5 =
Erankenia salina	50	Yes	FACW	Column Totals: (A) (B)
2. Patis maritima	10			Provolonce Index = P/A = 1.45
3. Daus manuma				
4	·			Hydrophytic Vegetation Indicators:
5				Δ Dominance Test is >50%
6				X Prevalence Index is ≤3.0
7				Morphological Adaptations ¹ (Provide supporting
8				data in Remarks or on a separate sheet)
Total Cover:	110%			Problematic Hydrophytic Vegetation (Explain)
Woody Vine Stratum				
1				¹ Indicators of hydric soil and wetland hydrology must
2.				be present.
Total Cover:				Hydrophytic Vegetation
% Bare Ground in Herb Stratum % Cover	of Biotic Ci	rust		Present? Yes X No
Remarks:				
Hydrophytic vegetation present.				

SOIL

Profile Des	cription: (Describe t	o the dept	h needed to docu	ment the	indicator	or confirm	m the absence of indicators.)			
Depth	Matrix	0/	Rede	ox Feature	es 1	1 2	- Tartan Davida			
(Inches)				%			Remarks			
0-12	5 YR 3/1		2.5 YR 4/8	30	D					
¹ Type: C=C	Concentration, D=Depl	etion, RM=	Reduced Matrix.	² Locatio	n: PL=Po	re Lining, F	RC=Root Channel, M=Matrix.			
Hydric Soil	Indicators: (Applica	ible to all L	.RRs, unless othe	erwise no	ied.)		Indicators for Problematic Hydric Soils":			
Histoso	l (A1)		Sandy Rec	lox (S5)			1 cm Muck (A9) (LRR C)			
Fisher E	listic (A3)			cky Miner	al (E1)		2 cm Muck (ATO) (LKK D) Reduced Vertic (E18)			
Hvdrog	en Sulfide (A4)		Loamy Gleved Matrix (F2)				Red Parent Material (TF2)			
Stratifie	ed Lavers (A5) (LRR C	;)	× Depleted M	/atrix (F3)	(1-)		Other (Explain in Remarks)			
1 cm M	uck (A9) (LRR D)	/	Redox Dar	k Surface	(F6)		<u> </u>			
Deplete	ed Below Dark Surface	e (A11)	Depleted D	oark Surfa	ce (F7)					
Thick D	ark Surface (A12)	、	X Redox Dep	oressions	(F8)					
Sandy I	Mucky Mineral (S1)		Vernal Poo	ols (F9)			³ Indicators of hydrophytic vegetation and			
Sandy	Gleyed Matrix (S4)						wetland hydrology must be present.			
Restrictive	Layer (if present):									
Туре:										
Depth (ir	nches):						Hydric Soil Present? Yes <u>X</u> No			
Remarks:							·			
Root matter	r throughout. Root o	channel m	ottling present.	Hydric sc	ils prese	nt.				
Wetland Hy	/drology Indicators:						Secondary Indicators (2 or more required)			
Primary Ind	icators (any one indica	ator is suffic	ient)				Water Marks (B1) (Riverine)			
Surface	rface Water (A1) Salt Crust (B11)						Sediment Deposits (B2) (Riverine)			

 Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonriverine) Sediment Deposits (B2) (Nonriverine) Drift Deposits (B3) (Nonriverine) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery (B7) Water-Stained Leaves (B9) 	 Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Roots (Presence of Reduced Iron (C4) Recent Iron Reduction in Plowed Soils (C6) X Other (Explain in Remarks) 	 Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2) (C3) Thin Muck Surface (C7) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9) Shallow Aquitard (D3) FAC-Neutral Test (D5)
Field Observations: Surface Water Present? Yes No Water Table Present? Yes No Saturation Present? Yes No (includes capillary fringe) Describe Recorded Data (stream gauge, monito Remarks: Remarks:	Depth (inches): Depth (inches): Depth (inches): 0-12 Wetland wring well, aerial photos, previous inspections), if a	d Hydrology Present? Yes <u>×</u> No vailable:

2005 Aerial Imagery and rainfall data. Hydrology present.

Project/Site: Pond 20	_ City/County: Imperial Beach/San Diego Sampling Date: 7/1/08
Applicant/Owner: Port of San Diego	State: CA Sampling Point: DP28/PP28
Investigator(s): Rebecca Erickson/Brad Kelly	_ Section, Township, Range: S20; T18S; R2W
Landform (hillslope, terrace, etc.): bank	Local relief (concave, convex, none): none Slope (%): ~10%
Subregion (LRR): C	00654.82949 Long: <u>173990.28509</u> Datum: <u>NAD83</u>
Soil Map Unit Name: Huerhuero-Urban land complex	NWI classification: Upland
Are climatic / hydrologic conditions on the site typical for this time of the second s	vear? Yes X No (If no, explain in Remarks.) y disturbed? Are "Normal Circumstances" present? Yes X roblematic? (If needed, explain any answers in Remarks.)
SUMMARY OF FINDINGS – Attach site map showin	g sampling point locations, transects, important features, etc.
Hydrophytic Vegetation Present? Yes X No Hydric Soil Present? Yes No X Wetland Hydrology Present? Yes No X	Is the Sampled Area within a Wetland? Yes <u>No X</u>

Remarks:

CDFG/CCC only 15 feet.

	Absolute	Dominant	Indicator	Dominance Test worksheet:
<u>Tree Stratum</u> (Use scientific names.)	<u>% Cover</u>	Species?	Status	Number of Dominant Species
1				That Are OBL, FACW, or FAC: (A)
2				Total Number of Dominant
3				Species Across All Strata: 1 (B)
4.				
Total Cover:				Percent of Dominant Species
Sapling/Shrub Stratum				That Are OBL, FACW, of FAC. (A/B)
1				Prevalence Index worksheet:
2.				Total % Cover of: Multiply by:
3				OBL species x 1 =
۰	<u> </u>			EACW species $65 \times 2 = 130$
4:				$\frac{1}{15} \times 2 = \frac{45}{15}$
5				
Total Cover:				FACU species X 4 =
Frankenia salina	50	Yes	FACW	UPL species 20 x 5 = 100
Glebionis coronarium	20	No		Column Totals: (A) (B)
				$P_{\text{rescalarian bridge}} = P/A = -2.75$
3. Eolium mulliorum	10			
4. Distichiis spicata	15		FACW	Hydrophytic Vegetation Indicators:
5				<u> Dominance Test is >50%</u>
6				\underline{X} Prevalence Index is $\leq 3.0^{1}$
7				Morphological Adaptations ¹ (Provide supporting
8.				data in Remarks or on a separate sheet)
Total Cover:	100%			Problematic Hydrophytic Vegetation ¹ (Explain)
Woody Vine Stratum				
1				¹ Indicators of hydric soil and wetland hydrology must
2.				be present.
Total Cover:				Hydrophytic
% Bare Ground in Herb Stratum0% % Cover	of Biotic C	rust		Present? Yes X No
Remarks:				
Hydrophytic vegetation dominant				

Depth Matrix Redox Features (inches) Color (moist) % Type ¹ Loc ² Texture Remarks	Profile Desc	ription: (Describe to	o the depth n	needed to docur	nent the ir	ndicator	or confirm	n the absence of indic	ators.)		
(inches) Color (moist) % Type! Loc? Texture Remarks	Depth	Matrix		Redo	x Features	;					
Image: Sector	(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remar	<s< td=""><td></td></s<>	
"Type: C=Concentration, D=Depletion, RM=Reduced Matrix. *Location: PL=Pore Lining, RC=Root Channel, M=Matrix. Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Indicators for Problematic Hydric Soils ³ : Histic Epipedon (A2) Sandy Redox (S5) 1 cm Muck (A9) (LRR C) Histic Epipedon (A2) Stripped Matrix (S6) 2 cm Muck (A10) (LRR B) Black Histic (A3) Loamy Gleyed Matrix (F2) Red Parent Material (TF2) Stratified Layers (A5) (LRR C) Depleted Matrix (F3) Other (Explain in Remarks) 1 cm Muck (A9) (LRR D) Redox Dark Surface (F6) Other (Explain in Remarks) 1 cm Muck (M9) (LRR D) Redox Depressions (F8) 3 Indicators of hydrophytic vegetation and wetland hydrology must be present. Restrictive Layer (if present): Type: Type: No X Type: Depth (inches): Hydric Soil Present? Yes No X					·		·		-		
Image: constraint of the system of the sy					·						
'Type: C=Concentration, D=Depletion, RM=Reduced Matrix. ² Location: PL=Pore Lining, RC=Root Channel, M=Matrix. Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Indicators for Problematic Hydric Soils ³ :											
¹ Type: C=Concentration, D=Depletion, RM=Reduced Matrix. ² Location: PL=Pore Lining, RC=Root Channel, M=Matrix. Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Indicators for Problematic Hydric Soils ³ :											
'Type: C=Concentration, D=Depletion, RM=Reduced Matrix. ² Location: PL=Pore Lining, RC=Root Channel, M=Matrix. Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Indicators for Problematic Hydric Soils ³ :											
'Type: C=Concentration, D=Depletion, RM=Reduced Matrix. ² Location: PL=Pore Lining, RC=Root Channel, M=Matrix. Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Indicators for Problematic Hydric Soils ³ :					·			·			
¹ Type: C=Concentration, D=Depletion, RM=Reduced Matrix. ² Location: PL=Pore Lining, RC=Root Channel, M=Matrix. Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Indicators for Problematic Hydric Soils ³ :	·				·		. <u> </u>	·			
¹ Type: C=Concentration, D=Depletion, RM=Reduced Matrix. ² Location: PL=Pore Lining, RC=Root Channel, M=Matrix. Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Indicators for Problematic Hydric Soils ³ :											
¹ Type: C=Concentration, D=Depletion, RM=Reduced Matrix. ² Location: PL=Pore Lining, RC=Root Channel, M=Matrix. Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Indicators for Problematic Hydric Soils ³ :											
Type: C=Concentration, D=Depietion, RM=Reduced Matrix. Location: PL=Pore Lining, RC=Root Channel, M=Matrix. Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Indicators for Problematic Hydric Soils ³ : Histosol (A1) Sandy Redox (S5) 1 cm Muck (A9) (LRR C) Histic Epipedon (A2) Stripped Matrix (S6) 2 cm Muck (A10) (LRR B) Black Histic (A3) Loamy Mucky Mineral (F1) Reduced Vertic (F18) Hydrogen Sulfide (A4) Loamy Gleyed Matrix (F2) Red Parent Material (TF2) Stratified Layers (A5) (LRR C)	17			dura al Matrice	21						
Histosol (A1)		ndicators: (Applicat		duced Matrix.	Location:		e Lining, R	Indicators for Pro	allix.	ric Soile ³ :	
					wise note	u.)				10 30115 .	
Histic Epipedon (A2) Stripped Matrix (S6) 2 cm Muck (A10) (LRR B) Black Histic (A3) Loamy Mucky Mineral (F1) Hydrogen Sulfide (A4) Loamy Gleyed Matrix (F2) Stratified Layers (A5) (LRR C) Depleted Matrix (F3) 1 cm Muck (A9) (LRR D) Redox Dark Surface (F6) Depleted Below Dark Surface (A11) Depleted Dark Surface (F7) Thick Dark Surface (A12) Redox Depressions (F8) Sandy Mucky Mineral (S1) Vernal Pools (F9) Sandy Gleyed Matrix (S4) Wetland hydrology must be present.	Histosol	(A1)		Sandy Redo	DX (S5)			1 cm Muck (A9			
Black Histic (A3) Loamy Mucky Mineral (F1) Reduced Vertic (F18) Hydrogen Sulfide (A4) Loamy Gleyed Matrix (F2) Red Parent Material (TF2) Stratified Layers (A5) (LRR C) Depleted Matrix (F3) Other (Explain in Remarks) 1 cm Muck (A9) (LRR D) Redox Dark Surface (F6) Other (Explain in Remarks) Depleted Below Dark Surface (A11) Depleted Dark Surface (F7) Thick Dark Surface (A12) Redox Depressions (F8) Sandy Mucky Mineral (S1) Vernal Pools (F9) ³ Indicators of hydrophytic vegetation and wetland hydrology must be present. Restrictive Layer (if present): Type: Depth (inches): Yes No	Histic Ep	ipedon (A2)		Stripped Ma	atrix (S6)			2 cm Muck (A1	0) (LRR B)		
	Black His	stic (A3)		Loamy Muc	ky Mineral	(F1)		Reduced Vertic	; (F18)		
Stratified Layers (AS) (LRR C) Depieted Matrix (F3) Other (Explain in Remarks) 1 cm Muck (A9) (LRR D) Redox Dark Surface (F6) Depieted Below Dark Surface (A11) Depieted Dark Surface (F7) Thick Dark Surface (A12) Redox Depressions (F8) Sandy Mucky Mineral (S1) Vernal Pools (F9) 3 ¹ Indicators of hydrophytic vegetation and Sandy Gleyed Matrix (S4) Restrictive Layer (if present): Type: Depth (inches): NoX	Hydroge	n Sulfide (A4)	`	Loamy Gley	/ed Matrix	(F2)		Red Parent Ma	terial (IF2)		
	Stratified	Layers (A5) (LRR C)	Depleted M	atrix (F3)			Other (Explain	in Remarks)		
Explored below Dark Surface (A11) Depleted Dark Surface (P7) Thick Dark Surface (A12) Redox Depressions (F8) Sandy Mucky Mineral (S1) Vernal Pools (F9) ³ Indicators of hydrophytic vegetation and wetland hydrology must be present. Restrictive Layer (if present): Type: Depth (inches): Hydric Soil Present? Yes No X		CK (A9) (LKK D) I Rolow Dark Surface	(11)	Redox Dark	Surface (I	F0)					
	Depieted	rk Surfood (A12)	(ATT)	Depieted Da	ark Suriace	= (<i>Г1)</i>					
	Thick Da	ucky Minoral (S1)				0)		³ Indiantors of hydro	phytic vocato	ion and	
Constructive Layer (if present): Type:	Sandy M	loved Matrix (S4)			5(F9)			wotland bydrolo	privile vegetai		
Type:	Sanuy G	aver (if present):							Jy must be pre	eseni.	
Depth (inches): No X	Turner	ayer (il present).									
Depth (inches): No	Type			_					•		×
	Depth (inc	:hes):		_				Hydric Soil Presen	.? Yes	No	
Remarks:	Remarks:										
Could not dia due to the processo of reaks in soil	Could not die	n dua ta tha prasan	co of rocks i	in coil							
		g due to the present	CE OI TOCKS	in 30ii.							

Wetland Hydrology Indicators:		Secondary Indicators (2 or more required)
Primary Indicators (any one indicator is sufficient)		Water Marks (B1) (Riverine)
Surface Water (A1)	Sediment Deposits (B2) (Riverine)	
High Water Table (A2)	Biotic Crust (B12)	Drift Deposits (B3) (Riverine)
Saturation (A3)	_ Aquatic Invertebrates (B13)	Drainage Patterns (B10)
Water Marks (B1) (Nonriverine)	_ Hydrogen Sulfide Odor (C1)	Dry-Season Water Table (C2)
Sediment Deposits (B2) (Nonriverine)	Oxidized Rhizospheres along Livin	g Roots (C3) Thin Muck Surface (C7)
Drift Deposits (B3) (Nonriverine)	Presence of Reduced Iron (C4)	Crayfish Burrows (C8)
Surface Soil Cracks (B6)	Soils (C6) Saturation Visible on Aerial Imagery (C9)	
Inundation Visible on Aerial Imagery (B7)	_ Other (Explain in Remarks)	Shallow Aquitard (D3)
Water-Stained Leaves (B9)		FAC-Neutral Test (D5)
Field Observations:		
Surface Water Present? Yes No	Depth (inches):	
Water Table Present? Yes No	Depth (inches):	
Saturation Present? Yes <u>No</u> No (includes capillary fringe)	Depth (inches):	Wetland Hydrology Present? Yes No
Describe Recorded Data (stream gauge, monitoring	g well, aerial photos, previous inspect	ions), if available:
Remarks:		
DP28 on bank of stream channel. No evidence	e of hydrologic indicators.	

Project/Site: Pond 20	City/County: Imperial Beach/San Diego Sampling Date: 7/1/08
Applicant/Owner: Port of San Diego	State: CA Sampling Point: DP29/PP29
Investigator(s): Rebecca Erickson/Brad Kelly	Section, Township, Range: S20; T18S; R2W
Landform (hillslope, terrace, etc.): stream channel	_ Local relief (concave, convex, none): <u>none</u> Slope (%): <u>0%</u>
Subregion (LRR): C	00662.36328 Long: <u>1793991.55012</u> Datum: <u>NAD83</u>
Soil Map Unit Name: Huerhuero-Urban land complex	NWI classification: Upland
Are climatic / hydrologic conditions on the site typical for this time of year Vegetation <u>No</u> , Soil <u>No</u> , or Hydrology <u>No</u> significantly Are Vegetation <u>No</u> , Soil <u>No</u> , or Hydrology <u>No</u> naturally pr	ear? Yes X No (If no, explain in Remarks.) / disturbed? Are "Normal Circumstances" present? Yes X roblematic? (If needed, explain any answers in Remarks.) g sampling point locations, transects, important features, etc.
Hydrophytic Vegetation Present? Yes No Hydric Soil Present? Yes No Wetland Hydrology Present? Yes No Remarks: Yes No	Is the Sampled Area within a Wetland? Yes <u>X</u> No
ACOE jurisdictional to 4 feet. CCC/CDFG jurisdictional to 15	feet.
VEGETATION	

	Absolute	Dominant	Indicator	Dominance Test worksho	eet:	
Tree Stratum (Use scientific names.)	% Cover	Species?	Status	Number of Dominant Spec	cies	
1				That Are OBL, FACW, or F	FAC:	(A)
2				Total Number of Deminent		
3.				Species Across All Strata:	L	(B)
4						(-)
Total Cover:				Percent of Dominant Spec	ies	
Sapling/Shrub Stratum	·			That Are OBL, FACW, or F	-AC:	(A/B)
1.				Prevalence Index worksh	neet:	
2.				Total % Cover of:	Multiply by:	
3.				OBL species	x 1 =	
4.				FACW species	x 2 =	
5.				FAC species	x 3 =	
Total Cover:	:			FACU species	x 4 =	
Herb Stratum				UPL species	x 5 =	
1				Column Totals:	(A)	(B)
2						_ ()
3				Prevalence Index =	B/A =	
4				Hydrophytic Vegetation	Indicators:	
5				Dominance Test is >5	0%	
6.				Prevalence Index is ≤	3.0 ¹	
7.				Morphological Adapta	tions ¹ (Provide suppo	rting
8.				data in Remarks or	r on a separate sheet)
Total Cover:				Problematic Hydrophy	vtic Vegetation ¹ (Expla	ain)
Woody Vine Stratum						
1				¹ Indicators of hydric soil ar	nd wetland hydrology	must
2				be present.		
Total Cover:				Hydrophytic Vegetation		
% Bare Ground in Herb Stratum % Cover	of Biotic Cr	rust		Present? Yes	No <u>X</u>	
Remarks:				•		
Linux and the distance of the distance of the second test of the second south is						
Unvegetated stream bed. No vegetation rooted within	n channel.					

Depth Matrix	Depth Matrix Redox Features					
(inches) Color (moist) %	Color (moist) % Type ¹ Loc ²	Texture Remarks				
Type: C=Concentration, D=Depletion, RM	1=Reduced Matrix. ² Location: PL=Pore Lining	g, RC=Root Channel, M=Matrix.				
Histosol (A1)	Sandy Redox (S5)	1 cm Muck (A9) (LRR C)				
Histic Epipedon (A2)	Stripped Matrix (S6)	2 cm Muck (A10) (LRR B)				
Black Histic (A3)	Loamy Mucky Mineral (F1)	Reduced Vertic (F18)				
Hydrogen Sulfide (A4)	Loamy Gleyed Matrix (F2)	Red Parent Material (TF2)				
Stratified Layers (A5) (LRR C)	Depleted Matrix (F3)	Other (Explain in Remarks)				
1 cm Muck (A9) (LRR D)	Redox Dark Surface (F6)					
Depleted Below Dark Surface (ATT)	Depleted Dark Surface (F7)					
Sandy Mucky Mineral (S1)	Vernal Pools (F9)	³ Indicators of hydrophytic vegetation and				
Sandy Gleved Matrix (S4)		wetland hydrology must be present.				
testrictive Layer (if present):						
Туре:						
Depth (inches):		Hydric Soil Present? Yes X No				
Remarks:						
Remarks: tream channel Soils assumed to be l	avdric					
Remarks: tream channel. Soils assumed to be l	hydric.					

Wetland Hydrology Indicators:		Secondary Indicators (2 or more required)
Primary Indicators (any one indicator is sufficient)		Water Marks (B1) (Riverine)
X Surface Water (A1)	Salt Crust (B11)	Sediment Deposits (B2) (Riverine)
High Water Table (A2)	Biotic Crust (B12)	Drift Deposits (B3) (Riverine)
Saturation (A3)	Aquatic Invertebrates (B13)	Drainage Patterns (B10)
Water Marks (B1) (Nonriverine)	Hydrogen Sulfide Odor (C1)	Dry-Season Water Table (C2)
Sediment Deposits (B2) (Nonriverine)	Oxidized Rhizospheres along Livir	ng Roots (C3) Thin Muck Surface (C7)
Drift Deposits (B3) (Nonriverine)	Crayfish Burrows (C8)	
Surface Soil Cracks (B6)	Recent Iron Reduction in Plowed S	Soils (C6) Saturation Visible on Aerial Imagery (C9)
\underline{X} Inundation Visible on Aerial Imagery (B7)	X Other (Explain in Remarks)	Shallow Aquitard (D3)
Water-Stained Leaves (B9)		FAC-Neutral Test (D5)
Field Observations:	4.0.1	
Surface Water Present? Yes X No	Depth (inches): 4.0 "	
Water Table Present? Yes No	Depth (inches):	
Saturation Present? Yes No (includes capillary fringe)	Depth (inches):	Wetland Hydrology Present? Yes <u>×</u> No
Describe Recorded Data (stream gauge, monitoring	ng well, aerial photos, previous inspec	ions), if available:
Remarks:		
Depth of water 4 inches. PP29 located in cen present.	nter of channel. ACOE 4 feet OHV	VM. 2005 Aerial Imagery and rainfall data. Hydrology

Project/Site: Pond 20	City/County: Imperial Beach/San Diego Sampling Date: 7/1/08						
Applicant/Owner: Port of San Diego	State: CA Sampling Point: DP30/PP30						
Investigator(s): Rebecca Erickson/Brad Kelly	Section, Township, Range: S20; T18S; R2W						
Landform (hillslope, terrace, etc.): bank	Local relief (concave, convex, none): <u>none</u> Slope (%): <u>~40%</u>						
Subregion (LRR): C Lat: 63	00668.94613 Long: 1793998.22912 Datum: NAD83						
Soil Map Unit Name: Huerhuero-Urban land complex	NWI classification: Upland						
Are climatic / hydrologic conditions on the site typical for this time of year? Yes <u>×</u> No (If no, explain in Remarks.) Are Vegetation <u>No</u> , Soil <u>No</u> , or Hydrology <u>No</u> significantly disturbed? Are Vegetation <u>No</u> , Soil <u>No</u> , or Hydrology <u>No</u> naturally problematic? SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.							
Hydrophytic Vegetation Present? Yes X No Hydric Soil Present? Yes No X Wetland Hydrology Present? Yes No X Remarks: Image: Constraint of the second s	Is the Sampled Area within a Wetland? Yes <u>No X</u>						

	Absolute	Dominant	Indicator	Dominance Test worksheet:	
Tree Stratum (Use scientific names.)	% Cover	Species?	Status	Number of Dominant Species	
1	·			That Are OBL, FACW, or FAC: (A	٩)
2				Total Number of Dominant	
3				Species Across All Strata: (B	3)
4					
Total Cover:	:			That Are OBL_EACW_or EAC· 100 (A	4/B)
Sapling/Shrub Stratum					(B)
1	·			Prevalence Index worksheet:	
2				Total % Cover of: Multiply by:	
3				OBL species x 1 =0	
4.				FACW species65 x 2 =130	
5.				FAC species 15 $x_3 = 45$	
Total Cover				FACU species $0 \times 4 = 0$	
Herb Stratum	·			UPL species $20 \times 5 = 100$	
_{1.} Frankenia salina	50	Yes	FACW	Column Totals: 100 (A) 275 ((B)
2. Glebionis coronarium	20	No	UPL		, с)
3. Lolium multiflorum	15	No	FAC	Prevalence Index = B/A = 2.75	
4. Distichlis spicata	15	No	FACW	Hydrophytic Vegetation Indicators:	
5				X Dominance Test is >50%	
6				\times Prevalence Index is ≤3.0 ¹	
7				Morphological Adaptations ¹ (Provide supporting	J
8	·			data in Remarks or on a separate sheet)	-
Total Cavar	100%		·	Problematic Hydrophytic Vegetation ¹ (Explain)	
Woody Vine Stratum					
1				¹ Indicators of hydric soil and wetland hydrology mus	st
2.				be present.	
Total Cover	:			Hydrophytic	
% Bare Ground in Herb Stratum0% % Cover	of Biotic C	rust		Present? Yes X No	
Remarks:					
Hydrophytic vedetation dominant					
Hydrophytic vegetation dominant.					

Profile Desci	ription: (Describe to	o the depth ne	eded to docu	ment the i	ndicator of	or confirm	the absence of	indicators.)		
Depth	Matrix		Redo	ox Features						
(inches)	Color (moist)	% C	olor (moist)	%	Type ¹	Loc ²	Texture	Rem	arks	
·							<u> </u>			
1				2		<u> </u>				
'Type: C=Co	ncentration, D=Deple	etion, RM=Redu	uced Matrix.	² Location:	PL=Pore	e Lining, R	C=Root Channel,	, M=Matrix.		
Hydric Soil II	ndicators: (Applica	ble to all LRRs	s, unless othe	rwise note	ed.)		Indicators for	r Problematic Hy	dric Soils":	
Histosol ((A1)	-	Sandy Red	ox (S5)			1 cm Muc	:k (A9) (LRR C)		
Histic Ep	ipedon (A2)	-	Stripped M	atrix (S6)			2 cm Muc	:k (A10) (LRR B)		
Black His	stic (A3)	-	Loamy Muc	cky Mineral	(F1)		Reduced	Vertic (F18)		
Hydroger	n Sulfide (A4)	-	Loamy Gle	yed Matrix	(F2)		Red Pare	nt Material (TF2)		
Stratified	Layers (A5) (LRR C) _	Depleted N	latrix (F3)			Other (Ex	plain in Remarks)	
1 cm Muo	ck (A9) (LRR D)		Redox Dar	k Surface (F6)					
Depleted	Below Dark Surface	(A11) _	Depleted D	ark Surface	e (F7)					
Thick Da	rk Surface (A12)	-	Redox Dep	ressions (F	8)		3			
Sandy M	ucky Mineral (S1)	-	Vernal Poo	ls (F9)			Indicators of I	hydrophytic vege	tation and	
Sandy G	eyed Matrix (S4)						wetland hy	drology must be	present.	
Restrictive L	ayer (if present):									
Туре:										
Depth (inc	hes):						Hydric Soil Pro	esent? Yes _	No	<u>×</u>
Remarks:										
		.								
Could not alg	due to presence o	of rocks in sol	l.							

Wetland Hydrology Indicato	rs:				Secondary Indicators (2 or more required)		
Primary Indicators (any one in	idicator is s	ufficient)			Water Marks (B1) (Riverine)		
Surface Water (A1)			Sediment Deposits (B2) (Riverine)				
High Water Table (A2)			Biotic Crust (B12)		Drift Deposits (B3) (Riverine)		
Saturation (A3)		_	_ Aquatic Invertebrates (B13)		Drainage Patterns (B10)		
Water Marks (B1) (Nonri	verine)	_	_ Hydrogen Sulfide Odor (C1)		Dry-Season Water Table (C2)		
Sediment Deposits (B2) (Nonriverin	e) _	_ Oxidized Rhizospheres along Liv	ing Roots (C3)	Thin Muck Surface (C7)		
Drift Deposits (B3) (Nonr	iverine)		Presence of Reduced Iron (C4)		Crayfish Burrows (C8)		
Surface Soil Cracks (B6)	Surface Soil Cracks (B6) Recent Iron Reduction in Plowed Soils (C6)				Saturation Visible on Aerial Imagery (C9)		
Inundation Visible on Aer	ial Imagery	(B7)	_ Other (Explain in Remarks)		Shallow Aquitard (D3)		
Water-Stained Leaves (B	9)				FAC-Neutral Test (D5)		
Field Observations:							
Surface Water Present?	Yes	No	Depth (inches):				
Water Table Present?	Yes	No	Depth (inches):				
Saturation Present? (includes capillary fringe)	Yes	No	Depth (inches):	Wetland Hy	drology Present? Yes NoX		
Describe Recorded Data (stre	am gauge,	monitoring	g well, aerial photos, previous inspec	ctions), if availa	ble:		
Remarks:							
DP30 on bank of stream ch	annel. No) hydrolog	gic indicators present.				

Project/Site: Pond 20	City/	_{County:} Imperial I	Beach/San Diego	Sampling Date: 7/1/08		
Applicant/Owner: Port of San Diego			State: CA	Sampling Point: DP31/PP31		
Investigator(s): Rebecca Erickson/Brad Kelly	Sect	ion, Township, Ra	nge: <u>S20; T18S; R2W</u>			
Landform (hillslope, terrace, etc.): salt panne	Loc	al relief (concave, o	convex, none): <u>none</u>	Slope (%): 0%		
Subregion (LRR): C	Lat: <u>630059</u>	8.32462	_ Long: 1794270.65379	Datum: NAD83		
Soil Map Unit Name: Huerhuero loam			NWI classific	cation:		
Are climatic / hydrologic conditions on the site typical for the	his time of year?	Yes X No	(If no, explain in R	emarks.)		
Are Vegetation No, Soil No, or Hydrology No significantly disturbed? Are "Normal Circumstances" present? Yes X No						
Are Vegetation <u>No</u> , Soil <u>No</u> , or Hydrology <u>No</u>	_naturally problem	natic? (If ne	eded, explain any answe	rs in Remarks.)		
SUMMARY OF FINDINGS – Attach site map	p showing sa	mpling point l	ocations, transects	, important features, etc.		
Hydrophytic Vegetation Present? Yes	_{No} ×	lo the Compled	A			
Hydric Soil Present? Yes X	No	Is the Sampled Area		X No		
Wetland Hydrology Present? Yes X	No	within a wettar				
Remarks:						
ACOE/CCC jurisdictional. Please see hydrology no	otes.					

	Absolute	Dominant	Indicator	Dominance Test worksheet:	
<u>Tree Stratum</u> (Use scientific names.) 1. [_]	% Cover	Species?	Status	Number of Dominant Species That Are OBL, FACW, or FAC:0 (A	۹)
2				Total Number of Dominant	
3				Species Across All Strata: 1 (E	B)
4.					,
Total Cover:				Percent of Dominant Species	A /D)
Sapling/Shrub Stratum					ч/Б)
1				Prevalence Index worksheet:	
2.				Total % Cover of: Multiply by:	
3				OBL species x 1 =	
A	. <u></u>			FACW species x 2 =	
				FAC species x 3 =	
5				$\frac{100}{100} \times 4 = \frac{400}{100}$	
Lotal Cover:					
Mesembryanthemum nodiflorum	100	Yes	FACU	UPL species X 5 =	
1	<u> </u>			Column Totals: (A) 400	(B)
2				Provolonce Index = P/A = 4.0	
3					
4	·			Hydrophytic vegetation indicators:	
5	. <u></u>			Dominance Test is >50%	
6	. <u></u>			Prevalence Index is ≤3.0 ⁺	
7				Morphological Adaptations ¹ (Provide supporting	g
8				data in Remarks or on a separate sheet)	
Total Cover:	100%			Problematic Hydrophytic Vegetation' (Explain)	
Woody Vine Stratum					
1				¹ Indicators of hydric soil and wetland hydrology mus	st
2	. <u></u>			be present.	
Total Cover:				Hydrophytic Vegetation	
% Bare Ground in Herb Stratum0% % Cover	of Biotic C	rust		Present? Yes <u>No X</u>	
Remarks:					
No hydrophytic vegetation present.					

Profile Des	cription: (Describe t	o the depth r	needed to docur	nent the i	ndicator	or confirm	the absence of in	dicators.)
Depth (inches)	<u>Matrix</u>	0/	Redo Color (moiot)	x Features	S Turna ¹	1 a a ²	Touture	Demortes
0-12	7.5 YR 3/1			70	туре			Loamy sand
				·			<u> </u>	
<u> </u>								
							. <u> </u>	
				·				
¹ Type: C=C			duced Matrix				PC-Root Channel M	-Matrix
Hvdric Soil	Indicators: (Applica	ble to all LR	Rs. unless other	wise note	. FL-F00 ed.)	e Lining, r	Indicators for P	roblematic Hvdric Soils ³ :
Histosol Histic E Histic E Black H Hydroge Stratifie 1 cm Mi	l (A1) pipedon (A2) istic (A3) en Sulfide (A4) d Layers (A5) (LRR C uck (A9) (LRR D))	Sandy Redox (S5) Stripped Matrix (S6) Loamy Mucky Mineral (F1) Loamy Gleyed Matrix (F2) Redox Dark Surface (F6)			1 cm Muck (2 cm Muck (Reduced Ve Red Parent Other (Expla	(A9) (LRR C) (A10) (LRR B) ertic (F18) Material (TF2) ain in Remarks)	
Deplete Thick D Sandy N	d Below Dark Surface ark Surface (A12) Mucky Mineral (S1)	(A11)	 Depleted Dark Surface (F7) Redox Depressions (F8) Vernal Pools (F9) 			³ Indicators of hydrogenetics of hydrogenetics and hydrogenetics of hydro	drophytic vegetation and	
Bestrictive	Jeyeu Matrix (54)							blogy must be present.
Type	Luyer (ii present).							
Depth (in	iches):		_				Hydric Soil Pres	ent? Yes <u>×</u> No
Remarks:								
At 12 inches	s, clay layer with mo	ottling. In up	oper 12 inches,	no mottle	es but pre	esence of	depleted matrix.	Hydric soils present.

Wetland Hydrology Indicators:	Secondary Indicators (2 or more required)
Primary Indicators (any one indicator is sufficient)	Water Marks (B1) (Riverine)
Surface Water (A1) Salt Crust (B11)	Sediment Deposits (B2) (Riverine)
High Water Table (A2) Biotic Crust (B12)	Drift Deposits (B3) (Riverine)
Saturation (A3) Aquatic Invertebrates (B13)	Drainage Patterns (B10)
Water Marks (B1) (Nonriverine) Hydrogen Sulfide Odor (C1)	Dry-Season Water Table (C2)
Sediment Deposits (B2) (Nonriverine) Oxidized Rhizospheres along Livir	ng Roots (C3) Thin Muck Surface (C7)
Drift Deposits (B3) (Nonriverine) Presence of Reduced Iron (C4)	Crayfish Burrows (C8)
Surface Soil Cracks (B6) Recent Iron Reduction in Plowed S	Soils (C6) Saturation Visible on Aerial Imagery (C9)
$\underline{\times}$ Inundation Visible on Aerial Imagery (B7) $\underline{\times}$ Other (Explain in Remarks)	Shallow Aquitard (D3)
Water-Stained Leaves (B9)	FAC-Neutral Test (D5)
Field Observations:	
Surface Water Present? Yes <u>No</u> Depth (inches):	
Water Table Present? Yes No Depth (inches):	
Saturation Present? Yes <u>No</u> Depth (inches): (includes capillary fringe)	Wetland Hydrology Present? Yes <u>×</u> No
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspect	tions), if available:
Remarks:	
Hydrologic indicators present. 2005 Aerial Imagery and rainfall data.	

Project/Site: Pond 20	City/C	_{county:} Imperial E	Beach/San Diego	Sampling Date: 7/1/08		
Applicant/Owner: Port of San Diego			State: CA	Sampling Point: DP32/PP32		
Investigator(s): Rebecca Erickson/Brad Kelly	Section	on, Township, Ran	ge: S20; T18S; R2W			
Landform (hillslope, terrace, etc.): salt panne	Loca	l relief (concave, c	onvex, none): <u>concave</u>	Slope (%): 0%		
Subregion (LRR): C	Lat: <u>6300580</u>	.59129	Long: 1794276.81948	B Datum: NAD83		
Soil Map Unit Name: Huerhuero loam			NWI classific	ation:		
Are climatic / hydrologic conditions on the site typical for thi	is time of year? Y	res <u>×</u> No	(If no, explain in R	emarks.)		
Are Vegetation <u>No</u> , Soil <u>No</u> , or Hydrology <u>No</u> significantly disturbed? Are "Normal Circumstances" present? Yes <u>X</u> No						
Are Vegetation <u>No</u> , Soil <u>No</u> , or Hydrology <u>No</u> r	naturally problem	atic? (If nee	eded, explain any answe	rs in Remarks.)		
SUMMARY OF FINDINGS – Attach site map	showing san	npling point lo	ocations, transects	, important features, etc.		
Hydrophytic Vegetation Present? Yes N	lo X	la tha Samplad	Aroa			
Hydric Soil Present? Yes X N	lo	within a Wetlan	Area d? Vos	X No		
Wetland Hydrology Present? Yes X N	lo		u: 165			
Remarks:						
ACOE/CCC jurisdictional. Please see hydrology not	tes.					

	Absolute	Dominant	Indicator	Dominance Test worksheet:	
<u>Tree Stratum</u> (Use scientific names.) 1. <u>-</u>	% Cover	Species?	Status	Number of Dominant Species That Are OBL, FACW, or FAC:0	(A)
2 3				Total Number of Dominant Species Across All Strata: 1	(B)
4 Total Cover:				Percent of Dominant Species That Are OBL, FACW, or FAC:0	(A/B)
1 -				Prevalence Index worksheet:	
2	. <u> </u>			Total % Cover of: Multiply by:	
3				OBL species x 1 =	-
а Л	·		·	FACW species x 2 =	-
+	·			FAC species x 3 =	-
J				$\frac{1}{10000000000000000000000000000000000$	-
Herb Stratum					-
1. Mesembryanthemum nodiflorum	50	Yes	FACU	Column Totalo: 50 (A) 200	- (D)
2	. <u> </u>			Column Totals: (A) (A)	_ (B)
3				Prevalence Index = B/A = 4.0	
۵ ۸	·		·	Hydrophytic Vegetation Indicators:	-
۳	······			Dominance Test is >50%	
5	·			$\frac{1}{2} = \frac{1}{2} $	
0	. <u> </u>			Morphological Adaptations ¹ (Provide support	ina
<i>1</i>				data in Remarks or on a separate sheet)	ing
8	E00/			Problematic Hydrophytic Vegetation ¹ (Explain	n)
Total Cover:	50%				.,
				¹ Indicators of hydric soil and wetland hydrology m	uist
l	·			be present.	1001
2				- Underschadte	
I otal Cover:				Vegetation	
% Bare Ground in Herb Stratum <u>50%</u> % Cover	of Biotic C	rust		Present? Yes <u>No X</u>	
Remarks:					
no nyaropnytic vegetation present.					

SO	L
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Depth	Matrix		Redo	ox Feature	s			
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks
0-6	7.5YR 3/1							Loamy sand
6-12	2.5Y 2.5/1		10R 3/4	75	С	М		Silty clay loam
	·							
¹ Type: C=C	Concentration, D=Depl	letion, RN	=Reduced Matrix.	² Location	: PL=Por	e Lining, F	RC=Root Channel, M	=Matrix.
			Condy Dod		eu.)			
HIStoso	(A1)		Sandy Red	OX (55)				
HISUCE	pipedon (AZ)		Stripped IVI	atrix (56)	1/54)		2 cm Muck (A(0) (LRR B)
васк н	listic (A3)		Loamy Mu	ску Minera	(F1)		Reduced Ve	
Hydrog	en Sulfide (A4)		Loamy Gle	yed Matrix	(F2)		Red Parent	Material (TF2)
Stratifie	ed Layers (A5) (LRR C	;)	<u> </u>	latrix (F3)			Other (Expla	ain in Remarks)
1 cm M	uck (A9) (LRR D)		Redox Dar	k Surface	(F6)			
Deplete	ed Below Dark Surface	e (A11)	Depleted D	ark Surfac	e (F7):			
Thick D	ark Surface (A12)		X Redox Dep	ressions (F8)			
Sandy I	Mucky Mineral (S1)		Vernal Poo	ls (F9)			³ Indicators of hyd	prophytic vegetation and
Sandy (Gleyed Matrix (S4)						wetland hydro	ology must be present.
Restrictive	Layer (if present):							
Type:								
Depth (ir	nches):						Hydric Soil Pres	ent? Yes <u>×</u> No

Wetland Hydrology Indicators:			Secondary Indicators (2 or more required)
Primary Indicators (any one indic	ator is sufficient)		Water Marks (B1) (Riverine)
Surface Water (A1)	-	🗙 Salt Crust (B11)	Sediment Deposits (B2) (Riverine)
High Water Table (A2)	_	Biotic Crust (B12)	Drift Deposits (B3) (Riverine)
Saturation (A3)	-	Aquatic Invertebrates (B13)	X Drainage Patterns (B10)
Water Marks (B1) (Nonriver	ine)	Hydrogen Sulfide Odor (C1)	Dry-Season Water Table (C2)
Sediment Deposits (B2) (No	nriverine)	Oxidized Rhizospheres along Liv	iving Roots (C3) Thin Muck Surface (C7)
Drift Deposits (B3) (Nonrive	rine) _	Presence of Reduced Iron (C4)	Crayfish Burrows (C8)
\underline{X} Surface Soil Cracks (B6)	-	Recent Iron Reduction in Plowed	d Soils (C6) Saturation Visible on Aerial Imagery (C9)
\underline{X} Inundation Visible on Aerial	Imagery (B7)	X Other (Explain in Remarks)	Shallow Aquitard (D3)
Water-Stained Leaves (B9)			FAC-Neutral Test (D5)
Field Observations:			
Surface Water Present? Y	′es No	Depth (inches):	_
Water Table Present? Y	′es No	Depth (inches):	_
Saturation Present? Y (includes capillary fringe)	′es No	Depth (inches):	_ Wetland Hydrology Present? Yes <u>×</u> No
Describe Recorded Data (stream	n gauge, monitorir	ng well, aerial photos, previous inspe	ections), if available:
Remarks:			
DP32 within channel. Hydrolo	gic indicators p	resent. 2005 Aerial Imagery and	d rainfall data.

Project/Site: Pond 20	City/County: Imperial Beach/San Diego Sampling Date: 7/1/08
Applicant/Owner: Port of San Diego	State: CA Sampling Point: DP33/PP33
Investigator(s): Rebecca Erickson/Brad Kelly	Section, Township, Range: S20; T18S; R2W
Landform (hillslope, terrace, etc.): salt panne	Local relief (concave, convex, none): none Slope (%): 0%
Subregion (LRR): C Lat:	6300561.32461 Long: 1794277.99182 Datum: NAD83
Soil Map Unit Name: Drainage/perennial	NWI classification: Upland
Are climatic / hydrologic conditions on the site typical for this time o Are Vegetation <u>No</u> , Soil <u>No</u> , or Hydrology <u>No</u> significant Are Vegetation <u>No</u> , Soil <u>No</u> , or Hydrology <u>No</u> naturally SUMMARY OF FINDINGS – Attach site map show	f year? Yes <u>X</u> No (If no, explain in Remarks.) htty disturbed? Are "Normal Circumstances" present? Yes <u>X</u> No (If needed, explain any answers in Remarks.) ng sampling point locations, transects, important features, etc.
Hydrophytic Vegetation Present? Yes No Hydric Soil Present? Yes No Wetland Hydrology Present? Yes No	X Is the Sampled Area X within a Wetland?

Remarks:

Non-jurisdictional.

Tree Stratum (Use scientific names.) % Cover Species? Status Number of Dominant Species 1	(A)
^{2.} Total Number of Dominant	
3 Species Across All Strata:1	(B)
4 Bercent of Dominant Species	
Total Cover: That Are OBL, FACW, or FAC:0	(A/B)
Sapling/Shrub Stratum	
2 I otal % Cover of: Multiply by:	_
3 OBL species x 1 =	-
4 FACW species x 2 =	_
5 FAC species x 3 =	-
Total Cover: FACU species x 4 =20	-
Herb Stratum UPL species x 5 =	_
$\frac{1}{120}$	(B)
2. Providence Index = B/A = 4.0	
	_
5 Dominance Test is >50%	
6 Prevalence Index is <3.0	
7 Morphological Adaptations' (Provide support data in Remarks or on a separate sheet)	ing
8 Problematic Hydrophytic Vegetation ¹ (Expla	n)
Total Cover: <u>30%</u>	,
<u>woody vine Stratum</u>	nuet
be present.	lust
I otal Cover: Hydropnytic	
% Bare Ground in Herb Stratum % Cover of Biotic Crust Present? Yes No	
Remarks:	
No hydrophytic vegetation present.	

Depth	Matrix		Redo	ox Features	;					
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Rema	arks	
0-12	2.5YR 3/2							Lo	amy sand	
¹ Type: C=C	Concentration, D=Depl	etion, RM	=Reduced Matrix.	² Location:	PL=Por	e Lining, F	RC=Root Channel, M	=Matrix.		
Hydric Soil	Indicators: (Applica	ble to all	LRRs, unless othe	erwise note	ed.)		Indicators for P	roblematic Hy	dric Soils ³ :	
Histoso	l (A1)		Sandy Red	lox (S5)			1 cm Muck (A9) (LRR C)		
Histic E	pipedon (A2)		Stripped M	atrix (S6)			2 cm Muck (A10) (LRR B)		
Black H	listic (A3)		Loamy Mu	cky Mineral	(F1)		Reduced Ve	rtic (F18)		
Hydrog	en Sulfide (A4)		Loamy Gle	yed Matrix	(F2)		Red Parent	Material (TF2)		
Stratifie	d Layers (A5) (LRR C	;)	Depleted M	latrix (F3)			Other (Expla	in in Remarks)	l.	
1 cm M	uck (A9) (LRR D)		Redox Dar	k Surface (I	F6)					
Deplete	ed Below Dark Surface	e (A11)	Depleted D	ark Surface	e (F7)					
Thick D	ark Surface (A12)		Redox Dep	pressions (F	8)		2			
Sandy I	Mucky Mineral (S1)		Vernal Poo	ols (F9)			°Indicators of hyd	Irophytic veget	ation and	
Sandy	Gleyed Matrix (S4)						wetland hydro	logy must be p	resent.	
Restrictive	Layer (if present):									
Type:										
Depth (ir	nches):						Hydric Soil Pres	ent? Yes	No	X
Remarks:							•			
	d No rodov concor	trationa	avidant Cail nat k	dric						
.oamy sand	a. No redox concer	trations	evident. Soli not r	iyaric.						

Wetland Hydrology Indicators:	Secondary Indicators (2 or more required)
Primary Indicators (any one indicator is sufficient)	Water Marks (B1) (Riverine)
Surface Water (A1) Salt Crust (B11)	Sediment Deposits (B2) (Riverine)
High Water Table (A2) Biotic Crust (B12)	Drift Deposits (B3) (Riverine)
Saturation (A3) Aquatic Invertebrates (B13)	Drainage Patterns (B10)
Water Marks (B1) (Nonriverine) Hydrogen Sulfide Odor (C1)	Dry-Season Water Table (C2)
Sediment Deposits (B2) (Nonriverine) Oxidized Rhizospheres along Liv	ing Roots (C3) Thin Muck Surface (C7)
Drift Deposits (B3) (Nonriverine) Presence of Reduced Iron (C4)	Crayfish Burrows (C8)
Surface Soil Cracks (B6) Recent Iron Reduction in Plowed	Soils (C6) Saturation Visible on Aerial Imagery (C9)
Inundation Visible on Aerial Imagery (B7) Other (Explain in Remarks)	Shallow Aquitard (D3)
Water-Stained Leaves (B9)	FAC-Neutral Test (D5)
Field Observations:	
Surface Water Present? Yes No Depth (inches):	
Water Table Present? Yes No Depth (inches):	
Saturation Present? Yes <u>No</u> Depth (inches): <u>(includes capillary fringe</u>)	Wetland Hydrology Present? Yes No
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspe	ctions), if available:
Remarks:	
Hydrology indicators not present.	

City/County: Imperial Beach/San Diego Sampling Date: 7/1/08
State: CA Sampling Point: DP34/PP34
_ Section, Township, Range: <u>S20;</u> T18S; R2W
_ Local relief (concave, convex, none): <u>Concave</u> Slope (%): <u>0%</u>
00529.60454 Long: <u>1794299.32206</u> Datum: <u>NAD83</u>
NWI classification: Upland
Yes Y
Is the Sampled Area within a Wetland? Yes No

	Absolute	Dominant	Indicator	Dominance Test worksheet:	
<u>Tree Stratum</u> (Use scientific names.) 1	<u>% Cover</u>	Species?	Status	Number of Dominant Species That Are OBL, FACW, or FAC:0 (A)	
2.					
3.				I otal Number of Dominant Species Across All Strata: 1 (B)	
4			·		
··	·			Percent of Dominant Species	
Sapling/Shrub Stratum				That Are OBL, FACW, or FAC: (A/B	;)
1				Prevalence Index worksheet:	
2.				Total % Cover of: Multiply by:	
3			·	OBL species x 1 =	
а Л				FACW species x 2 =	
			·		
D	·		·	$\frac{1}{50} \times 3 = \frac{200}{2}$	
Herb Stratum					
1 Mesembryanthemum nodiflorum	50	Yes	FACU	10PL species x 5 =	
1			·	Column Totals: (A) (B))
3				Prevalence Index = $B/A = 4.0$	
۵ ۸			·	Hydrophytic Vegetation Indicators:	
+			·	Dominance Test is >50%	
5			·	$\frac{1}{2} = \frac{1}{2} $	
6			<u> </u>	Morphological Adoptations ¹ (Provide supporting	
7	<u> </u>		·	data in Remarks or on a separate sheet)	
8	E00/		<u> </u>	Problematic Hydrophytic Vegetation ¹ (Explain)	
Total Cover:	50%				
				¹ Indicators of hydric soil and wetland hydrology must	
1			<u> </u>	be present.	
2	<u> </u>		·		
Total Cover:				Hydrophytic Vegetation	
% Bare Ground in Herb Stratum <u>50%</u> % Cover	of Biotic C	rust		Present? Yes <u>No X</u>	
Remarks:					_
No hydrophytic vegetation procent					

SO	L
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Depth	Matrix		Redo	x Feature	s						
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks			
0-6	7.5YR 3/1							Loamy sand			
6-12	2.5Y 2.5/1		10R 3/4	75	С	М		Silty clay loam			
¹ Type: C=C	Concentration, D=Depl	etion, RM	=Reduced Matrix.	² Location	: PL=Por	e Lining, F	RC=Root Channel, M	I=Matrix.			
Hyaric Sol	i indicators: (Applica	able to all	LRRS, unless othe	rwise not	ea.)		Indicators for P	TODIEMATIC HYDRIC SOIIS :			
Histoso	DI (A1)		Sandy Red	OX (S5)							
HISTIC E	=pipedon (A2)		Stripped M	atrix (S6)				(A10) (LRR B)			
віаск н	HISTIC (A3)		Loamy Mud	ску Minera	(F1)		Reduced Ve				
Hydrog	jen Sulfide (A4)		Loamy Gleyed Matrix (F2)				Red Parent Material (TF2)				
Stratifie	ed Layers (A5) (LRR C	;)		latrix (F3)			Other (Explain in Remarks)				
1 cm M	luck (A9) (LRR D)		Redox Dar	k Surface	(F6)						
Deplete	ed Below Dark Surface	e (A11)	Depleted D	ark Surfac	;e(⊢7)						
Thick D	Dark Surface (A12)		🔼 Redox Dep	ressions (F8)		2				
Sandy	Mucky Mineral (S1)		Vernal Poo	ls (F9)			[°] Indicators of hy	drophytic vegetation and			
Sandy	Gleyed Matrix (S4)						wetland hydro	ology must be present.			
Restrictive	Layer (if present):										
Type:											
Depth (ii	nches):						Hydric Soil Pres	ent? Yes <u>×</u> No			

Wetland Hydrology Indica	ors:				Secondary Indicators (2 or more required)
Primary Indicators (any one	indicator is a	sufficient)			Water Marks (B1) (Riverine)
Surface Water (A1)			X Salt Crust (B11)		Sediment Deposits (B2) (Riverine)
High Water Table (A2)			Biotic Crust (B12)		Drift Deposits (B3) (Riverine)
Saturation (A3)			Aquatic Invertebrates (B13)		Drainage Patterns (B10)
Water Marks (B1) (Non	riverine)		Hydrogen Sulfide Odor (C1)		Dry-Season Water Table (C2)
Sediment Deposits (B2)	(Nonriverin	1 e)	Oxidized Rhizospheres along Live	ving Roots (C3)	Thin Muck Surface (C7)
Drift Deposits (B3) (Nor	riverine)		Presence of Reduced Iron (C4)		Crayfish Burrows (C8)
X Surface Soil Cracks (B6	;)		Recent Iron Reduction in Plowed	l Soils (C6)	Saturation Visible on Aerial Imagery (C9)
X Inundation Visible on A	erial Imagery	ν (B7)	X Other (Explain in Remarks)		Shallow Aquitard (D3)
Water-Stained Leaves (B9)				FAC-Neutral Test (D5)
Field Observations:					
Surface Water Present?	Yes	No	Depth (inches):		
Water Table Present?	Yes	No	Depth (inches):		
Saturation Present? (includes capillary fringe)	Yes	No	Depth (inches):	Wetland Hy	drology Present? Yes <u>×</u> No
Describe Recorded Data (st	ream gauge	, monitori	ng well, aerial photos, previous inspe	ctions), if availa	able:
Remarks:					
DP34 within channel. Hyd	Irology pre	sent. 20	005 Aerial Imagery and rainfall da	ta.	

Project/Site: Pond 20	City/County: Im	perial Beach/San Diego	_ Sampling Date: 7/1/08
Applicant/Owner: Port of San Diego		State: CA	_ Sampling Point: DP35/PP35
Investigator(s): Rebecca Erickson/Brad Kelly	Section, Towns	hip, Range: <u>S20;</u> T18S; R2W	1
Landform (hillslope, terrace, etc.): salt panne	Local relief (co	ncave, convex, none): <u>none</u>	Slope (%): <u>0%</u>
Subregion (LRR): C Lat	6300497.00697	Long: 1794316.7217	77 Datum: NAD83
Soil Map Unit Name: Drainage/perennial		NWI classif	_{fication:} Upland
Are climatic / hydrologic conditions on the site typical for this time Are Vegetation <u>No</u> , Soil <u>No</u> , or Hydrology <u>No</u> signific Are Vegetation <u>No</u> , Soil <u>No</u> , or Hydrology <u>No</u> natural SUMMARY OF FINDINGS – Attach site map show	of year? Yes <u>×</u> antly disturbed? ly problematic? ving sampling p	No (If no, explain in Are "Normal Circumstances" (If needed, explain any answ point locations, transect	Remarks.) ¹ present? Yes <u>X</u> No <u></u> vers in Remarks.) 25. important features. etc.
Hydrophytic Vegetation Present? Yes No Hydric Soil Present? Yes No Wetland Hydrology Present? Yes No	X Is the Sa X within a	ampled Area Wetland? Yes	No <u></u>

Remarks:

Non-jurisdictional.

Tree Stratum (Use scientific names.) % Cover Species? Status Number of Dominant Species 1	(A)
^{2.} Total Number of Dominant	
3 Species Across All Strata:1	(B)
4 Bercent of Dominant Species	
Total Cover: That Are OBL, FACW, or FAC:0	(A/B)
Sapling/Shrub Stratum	
2 I otal % Cover of: Multiply by:	_
3 OBL species x 1 =	-
4 FACW species x 2 =	_
5 FAC species x 3 =	-
Total Cover: FACU species x 4 =20	-
Herb Stratum UPL species x 5 =	-
1. <u>Meeeninsiyannionianniotanni and an </u>	(B)
2. Providence Index = B/A = 4.0	
	_
6 Prevalence Index is <3.0	
7 Morphological Adaptations' (Provide support data in Remarks or on a separate sheet)	ing
8 Problematic Hydrophytic Vegetation ¹ (Expla	n)
Total Cover: <u>30%</u>	,
<u>woody vine Stratum</u>	nuet
be present.	lust
I otal Cover: Hydropnytic	
% Bare Ground in Herb Stratum % Cover of Biotic Crust Present? Yes No	
Remarks:	
No hydrophytic vegetation present.	

Depth	Matrix		Rede	ox Features						
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Rema	arks	
)-12 2	2.5YR 3/2							amy sand		
· -		·								
Type: C=Cor	ncentration, D=Depl	etion, RM		² Location:	PL=Pore		RC=Root Channel, M	=Matrix.		
ydric Soil In	dicators: (Applica	able to all	LRRs, unless othe	rwise noted	i.)		Indicators for P	roblematic Hy	dric Soils ³ :	
_ Histosol (/ Histic Epir	A1) pedon (A2)		Sandy Rec Stripped M	lox (S5) atrix (S6)			1 cm Muck (2 cm Muck (A9) (LRR C) A10) (LRR B)		
Black Hist	tic (A3)		Loamv Mu	ckv Mineral ('F1)		Reduced Ve	rtic (F18)		
Hydrogen	Sulfide (A4)		Loamy Gle	ved Matrix (I	F2)		Red Parent	Material (TF2)		
Stratified I	Layers (A5) (LRR C	;)	Depleted N	Aatrix (F3)	,		Other (Expla	in in Remarks)		
 1 cm Muc	k (A9) (LRR D)	,	Redox Dar	k Surface (F	6)		、 .	,		
 Depleted	Below Dark Surface	e (A11)	Depleted D	ark Surface	(F7)					
Thick Dar	k Surface (A12)		Redox Dep	pressions (F8	3)					
Sandy Mu	icky Mineral (S1)		Vernal Poo	ols (F9)			³ Indicators of hyd	Irophytic veget	ation and	
Sandy Gle	eyed Matrix (S4)						wetland hydro	ology must be p	present.	
estrictive La	ayer (if present):									
Type:										
Depth (inch	nes):						Hydric Soil Prese	ent? Yes	No	<u> </u>
emarks:										
amy sand	No redox concer	trations	evident Soil not h	ovdric						
any sand.		11 21013		iyuno.						

Wetland Hydrology Indicators:		Secondary Indicators (2 or more required)
Primary Indicators (any one indicator is sufficient)		Water Marks (B1) (Riverine)
Surface Water (A1)	Salt Crust (B11)	Sediment Deposits (B2) (Riverine)
High Water Table (A2)	Biotic Crust (B12)	Drift Deposits (B3) (Riverine)
Saturation (A3)	Aquatic Invertebrates (B13)	Drainage Patterns (B10)
Water Marks (B1) (Nonriverine)	Hydrogen Sulfide Odor (C1)	Dry-Season Water Table (C2)
Sediment Deposits (B2) (Nonriverine)	Oxidized Rhizospheres along Livir	ng Roots (C3) Thin Muck Surface (C7)
Drift Deposits (B3) (Nonriverine)	Presence of Reduced Iron (C4)	Crayfish Burrows (C8)
Surface Soil Cracks (B6)	Recent Iron Reduction in Plowed	Soils (C6) Saturation Visible on Aerial Imagery (C9)
Inundation Visible on Aerial Imagery (B7)	Other (Explain in Remarks)	Shallow Aquitard (D3)
Water-Stained Leaves (B9)		FAC-Neutral Test (D5)
Field Observations:		
Surface Water Present? Yes No	Depth (inches):	
Water Table Present? Yes No	Depth (inches):	
Saturation Present? Yes No (includes capillary fringe)	Depth (inches):	Wetland Hydrology Present? Yes No
Describe Recorded Data (stream gauge, monitori	ng well, aerial photos, previous inspec	ions), if available:
Remarks:		
Hydrology indicators not present.		

Project/Site: Pond 20		City/County: Imp	erial Beach/Sa	an Diego	_ Sampling Da	te: 7/1/08
Applicant/Owner: Port of San Diego			Sta	_{ite:} CA	_ Sampling Po	int: DP36/PP36
Investigator(s): Rebecca Erickson/Brad Kelly		Section, Townsh	ip, Range: <u>S20;</u>	T18S; R2W		
Landform (hillslope, terrace, etc.): salt panne		_ Local relief (con	cave, convex, no	one): none		Slope (%): 0%
Subregion (LRR): C	Lat: 63	00271.59172	Long: 17	793895.7878	<u>3</u>	Datum: NAD83
Soil Map Unit Name: Huerhuero-Urban land co	omplex		-	_ NWI classifi	_{cation:} Uplanc	1
Are climatic / hydrologic conditions on the site typ Are Vegetation <u>No</u> , Soil <u>No</u> , or Hydrology Are Vegetation <u>No</u> , Soil <u>No</u> , or Hydrology SUMMARY OF FINDINGS – Attach si	ical for this time of y / <u>No</u> significantl / <u>No</u> naturally p te map showin	rear? Yes <u>×</u> y disturbed? roblematic? g sampling po	No (If n Are "Normal Ci (If needed, exp point locations	no, explain in f rcumstances" lain any answe s, transect s	Remarks.) present? Yes ers in Remarks s, importan	X _{No} .) t features, etc.
Hydrophytic Vegetation Present?Yes _Hydric Soil Present?Yes _Wetland Hydrology Present?Yes _	No X No X No X	Is the Sa within a	mpled Area Wetland?	Yes	No	×
Remarks:						
DP36 located om raised area upslope of DF	P35. Non-jurisdict	ional.				

	Absolute	Dominant	Indicator	Dominance Test worksheet:	
<u>Tree Stratum</u> (Use scientific names.) 1. <u>-</u>	% Cover	Species?	Status	Number of Dominant Species That Are OBL, FACW, or FAC:0	(A)
2 3				Total Number of Dominant Species Across All Strata: 1	(B)
4Total Cover: Sapling/Shrub Stratum				Percent of Dominant Species That Are OBL, FACW, or FAC:0	(A/B)
1.7				Prevalence Index worksheet:	
2				Total % Cover of: Multiply by:	
3	. <u></u>			OBL species x 1 =	-
A				FACW species x 2 =	•
				FAC species x 3 =	•
J				$\frac{1}{120}$	
Herb Stratum	·				•
A Mesembryanthemum nodiflorum	30	No	FACU	$\frac{30}{120}$	(D)
2					(В)
3	·			Prevalence Index = B/A = 4.0	
3				Hydrophytic Vegetation Indicators:	-
4				Dominance Test is >50%	
5				$\frac{1}{2}$ Brevelence index is <3.0 ¹	
6				Morphological Adaptationa ¹ (Provide supporti	20
7				data in Remarks or on a separate sheet)	ng
8				Problematic Hydrophytic Vegetation ¹ (Explain)
Total Cover:	30%				')
				¹ Indicators of hydric soil and watland hydrology m	uct
1				be present.	นธเ
2					
Total Cover:				Hydrophytic Vegetation	
% Bare Ground in Herb Stratum 70% % Cover	of Biotic C	rust		Present? Yes <u>No X</u>	
Remarks:					
No hydrophytic vegetation present.					

Depth	Matrix		Rede	ox Features						
inches)	Color (moist)	%	Color (moist)	<u>%</u>	Type ¹	Loc ²	Texture	Rema	rks	
-12	2.5YR 3/2							Loa	amy sand	
ype: C=C	Indicators: (Application)	etion, RM=	Reduced Matrix.	Location: I	L=Pore	Elning, R	Indicators for P	-Matrix.	tric Soils ³ .	—
_ Histoso Histic F	l (A1)		Sandy Rec	lox (S5) atrix (S6)	,		1 cm Muck (A9) (LRR C) A10) (LRR B)		
Black H	listic (A3)		Loamv Mu	ckv Mineral (F	=1)		Reduced Ve	rtic (F18)		
Hvdroa	en Sulfide (A4)		Loamv Gle	ved Matrix (F	2)		Red Parent I	Material (TF2)		
Stratifie	d Lavers (A5) (LRR C	;)	Depleted M	latrix (F3)	,		Other (Expla	in in Remarks)		
1 cm M	uck (A9) (LRR D)	/	Redox Dar	k Surface (F6	5)			,		
Deplete	ed Below Dark Surface	e (A11)	Depleted D	ark Surface (, (F7)					
 Thick D	ark Surface (A12)	()	Redox Dep	pressions (F8)					
Sandy I	Mucky Mineral (S1)		Vernal Poo	ls (F9)	·		³ Indicators of hyd	Irophytic vegeta	ation and	
Sandy (Gleyed Matrix (S4)		_	、			wetland hydro	logy must be p	resent.	
estrictive	Layer (if present):									
Type:										
Depth (ir	nches):						Hydric Soil Prese	ent? Yes	No	
emarks:										
		trations	wident Coil	varia						
any sano	a. No redox concer	mations e	evident. Soli not r	iyuric.						

Wetland Hydrology Indicators:	Secondary Indicators (2 or more required)
Primary Indicators (any one indicator is sufficient)	Water Marks (B1) (Riverine)
Surface Water (A1) Salt Crust (B11)	Sediment Deposits (B2) (Riverine)
High Water Table (A2) Biotic Crust (B12)	Drift Deposits (B3) (Riverine)
Saturation (A3) Aquatic Invertebrates (B1	3) Drainage Patterns (B10)
Water Marks (B1) (Nonriverine) Hydrogen Sulfide Odor (C	C1) Dry-Season Water Table (C2)
Sediment Deposits (B2) (Nonriverine) Oxidized Rhizospheres al	ong Living Roots (C3) Thin Muck Surface (C7)
Drift Deposits (B3) (Nonriverine) Presence of Reduced Iron	n (C4) Crayfish Burrows (C8)
Surface Soil Cracks (B6) Recent Iron Reduction in	Plowed Soils (C6) Saturation Visible on Aerial Imagery (C9)
Inundation Visible on Aerial Imagery (B7) Other (Explain in Remark	s) Shallow Aquitard (D3)
Water-Stained Leaves (B9)	FAC-Neutral Test (D5)
Field Observations:	
Surface Water Present? Yes No Depth (inches):	
Water Table Present? Yes No Depth (inches):	
Saturation Present? Yes <u>No</u> Depth (inches): (includes capillary fringe)	Wetland Hydrology Present? Yes No
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previou	s inspections), if available:
Remarks:	
Hydrology indicators not present.	

Project/Site: Pond 20		_ City/County: Im	perial Beach	/San Diego	Sampling [Date: 7/1/08
Applicant/Owner: Port of San Diego				State: CA	Sampling F	oint: DP37/PP37
Investigator(s): Rebecca Erickson/Brad Kelly		_ Section, Towns	hip, Range: <u>S</u>	20; T18S; R2W	1	
Landform (hillslope, terrace, etc.): salt panne		_ Local relief (co	ncave, convex	, none): <u>convex</u>		_ Slope (%): <u>0%</u>
Subregion (LRR): C	Lat: 63	300267.75698	Long	1793932.826	53	Datum: NAD83
Soil Map Unit Name: Huerhuero-Urban land comple	x			NWI classi	_{fication:} Uplai	nd
Are climatic / hydrologic conditions on the site typical fo Are Vegetation <u>No</u> , Soil <u>No</u> , or Hydrology <u>Nc</u> Are Vegetation <u>No</u> , Soil <u>No</u> , or Hydrology <u>Nc</u> SUMMARY OF FINDINGS – Attach site m	r this time of y significantl naturally p ap showin	year? Yes ly disturbed? roblematic? Ing sampling p	Are "Norma (If needed, ooint locatio	(If no, explain in I Circumstances' explain any answ ons, transect	Remarks.) ' present? Ye vers in Remarl : s, importa	es <u>×</u> No ‹s.) nt features, etc.
Hydrophytic Vegetation Present? Yes Hydric Soil Present? Yes Wetland Hydrology Present? Yes	No X	- Is the S - within a	ampled Area Wetland?	Yes	No	
Remarks: ACOE/CCC jurisdictional. See hydrology notes.						

	Absolute	Dominant	Indicator	Dominance Test worksheet:
Tree Stratum (Use scientific names.)	% Cover	Species?	Status	Number of Dominant Species
1				That Are OBL, FACW, or FAC: (A)
2				Total Number of Dominant
3				Species Across All Strata: (B)
4.				()
Total Cover:				Percent of Dominant Species
Sapling/Shrub Stratum				Inat Are OBL, FACW, or FAC: (A/B)
1				Prevalence Index worksheet:
2.				Total % Cover of:Multiply by:
3.				OBL species x 1 =
4				FACW species x 2 =
5				FAC species x 3 =
Total Cover:				FACU species x 4 =
Herb Stratum				UPL species x 5 =
1				Column Totals: (A) (B)
2.				
3.				Prevalence Index = B/A =
4.				Hydrophytic Vegetation Indicators:
5				Dominance Test is >50%
6				Prevalence Index is ≤3.0 ¹
7				Morphological Adaptations ¹ (Provide supporting
·	······			data in Remarks or on a separate sheet)
0				Problematic Hydrophytic Vegetation ¹ (Explain)
Voody Vine Stratum				
1 -				¹ Indicators of hydric soil and wetland hydrology must
1	······			be present.
Z				Hydrophytic
l otal Cover:				Vegetation
% Bare Ground in Herb Stratum % Cover	of Biotic C	rust		Present? Yes <u>No X</u>
Remarks:				
No vegetation present.				

Denth	Matrix		Rode	x Feature	s					
(inches)	Color (moist)	%	Color (moist)	%		Loc ²	Texture	Remarks		
0-2			, , , ,					Salt		
2-8	5Y 3/1							Sandy clay		
8-12	2.5Y 2.5/1							Sand		
	·									
	Concentration D=Depl		Poducod Matrix	² Location	· DI -Dor			I-Matrix		
Hype. C=C	Indicators: (Applica	ble to all	LRRs. unless othe	rwise not	ed.)	e Lining, R	Indicators for P	Problematic Hydric Soils ³ :		
Histosol (A1) Sandy Redox (S5)							1 cm Muck (A9) (LRR C)			
Histic F	=pipedon (A2)	X Stripped Matrix (S6)				2 cm Muck (A10) (LRR B)				
Black Histic (A3)			Loamy Mucky Mineral (F1)				Reduced Vertic (F18)			
Hydrogen Sulfide (A4)			Loamy Gleved Matrix (F2)				Red Parent Material (TF2)			
Stratified Layers (A5) (LRR C)			\overline{X} Depleted Matrix (F3)				Other (Explain in Remarks)			
1 cm Muck (A9) (I RR D)			Bedox Dark Surface (F6)							
Depleted Below Dark Surface (A11)			Depleted Dark Surface (F7)							
Thick Dark Surface (A12) Beday Depressions (F8)										
Sandy Mucky Mineral (S1)			Vernal Pools (F9)				³ Indicators of hydrophytic vegetation and			
Sandy Macky Mineral (ST) Sandy Gleved Matrix (S4)								wetland bydrology must be present		
Restrictive	Layer (if present):						Wolland Hydr			
Type:										
Depth (ii	Depth (inches):						Hydric Soil Present? Yes <u>×</u> No			
							-			

Wetland Hydrology Indicators:				Secondary Indicators (2 or more required)							
Primary Indicators (any one indica		Water Marks (B1) (Riverine)									
Primary Indicators (any one indicators (any one indicators) Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonriverir Sediment Deposits (B2) (Non Drift Deposits (B3) (Nonriveri Surface Soil Cracks (B6) X Inundation Visible on Aerial In	tor is sufficient)	Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Livit Presence of Reduced Iron (C4) Recent Iron Reduction in Plowed	ng Roots (C3) Soils (C6)	 Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2) Thin Muck Surface (C7) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9) Shallow Aquitard (D3) 							
Water-Stained Leaves (B9)	<i>o , (,)</i>	_ (;		FAC-Neutral Test (D5)							
Field Observations:											
Surface Water Present? Ye	s No	_ Depth (inches):									
Water Table Present? Yes No		Depth (inches):									
Saturation Present? Yes <u>No</u> (includes capillary fringe)		Depth (inches): Wetland H		drology Present? Yes <u>×</u> No							
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:											
Remarks:											
On high island created by drainage patterns in center of channel. Hydrology indicators present. 2005 Aerial Imagery and rainfall data.											
Project/Site: Pond 20	City/County: Imperial Beach/San Diego Sampling Date: 7/1/08										
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Applicant/Owner: Port of San Diego	State: CA Sampling Point: DP38/PP38										
Investigator(s): Rebecca Erickson/Brad Kelly	_ Section, Township, Range: S20; T18S; R2W										
Landform (hillslope, terrace, etc.): salt panne	Local relief (concave, convex, none): none Slope (%): 0%										
Subregion (LRR): C Lat: 6	3300269.58600 Long: 1793983.96883 Datum: NAD83										
Soil Map Unit Name: Huerhuero-Urban land complex	NWI classification: Upland										
Are climatic / hydrologic conditions on the site typical for this time of	year? Yes <u>X</u> No (If no, explain in Remarks.)										
Are Vegetation <u>No</u> , Soil <u>No</u> , or Hydrology <u>No</u> significant	ntly disturbed? Are "Normal Circumstances" present? Yes <u>X</u> No										
Are Vegetation <u>No</u> , Soil <u>No</u> , or Hydrology <u>No</u> naturally p	problematic? (If needed, explain any answers in Remarks.)										
SUMMARY OF FINDINGS – Attach site map showin	ng sampling point locations, transects, important features, etc.										
Hydrophytic Vegetation Present? Yes No>	X Is the Sampled Area										
Hydric Soil Present? Yes No>	X within a Wetland? Yes No X										
Wetland Hydrology Present? Yes No>											
Remarks:											
DP38 on raised area upslope of DP35. Non-jurisdictional.											

	Absolute	Dominant	Indicator	Dominance Test worksheet:	
<u>Tree Stratum</u> (Use scientific names.) 1. <u>-</u>	<u>% Cover</u>	Species?	Status	Number of Dominant Species That Are OBL, FACW, or FAC:0	(A)
2 3				Total Number of Dominant Species Across All Strata:1	(B)
4 Total Cover: Sanling/Shrub Stratum				Percent of Dominant Species That Are OBL, FACW, or FAC: 0	(A/B)
1 -				Prevalence Index worksheet:	
2				Total % Cover of: Multiply by:	
3				$\frac{1}{1} = \frac{1}{1} = \frac{1}$	_
A.	·			EACW species x 2 =	_
4				FAC species x3 =	_
5				$\frac{1}{120}$	_
Herb Stratum					_
1 Mesembryanthemum nodiflorum	30	No	FACU	$\begin{array}{c} \text{OPL species} \\ \text{Column Totalay} \\ 30 \\ (4) \\ 120 \\ 120 \\ \end{array}$	- (D)
2					_ (B)
3				Prevalence Index = B/A = 4.0	
۵ ۸				Hydrophytic Vegetation Indicators:	
۳				Dominance Test is >50%	
5				$\frac{1}{2} = \frac{1}{2} $	
0				Morphological Adaptations ¹ (Provide support	ina
<i>I</i>				data in Remarks or on a separate sheet)	ing
8	200/			Problematic Hydrophytic Vegetation ¹ (Explain	n)
Total Cover:	30%				,
				¹ Indicators of hydric soil and wetland hydrology m	nust
l	·			be present.	1001
2				- Underschadte	
Total Cover:				Vegetation	
% Bare Ground in Herb Stratum <u>70%</u> % Cover	of Biotic C	rust		Present? Yes No X	
Remarks:					
no nyaropnytic vegetation present.					

Depth	Matrix		Red	ox Features						
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Rema	arks	
0-12	25YR 3/2						·	Lo	amy sand	
	·									
¹ Type: C=C	Concentration, D=Depl	etion, RM	=Reduced Matrix.	² Location:	PL=Por	e Lining, F	RC=Root Channel, M	=Matrix.		
Hydric Soil	Indicators: (Applica	ble to all	LRRs, unless othe	rwise note	d.)	0.	Indicators for P	roblematic Hy	dric Soils ³ :	
Histoso Histic E	l (A1) pipedon (A2)		Sandy Rec Stripped M	lox (S5) atrix (S6)			1 cm Muck (2 cm Muck (A9) (LRR C) A10) (LRR B)		
Black H	listic (A3)		Loamy Mu	cky Mineral	(F1) (F2)		Reduced Ve	rtic (F18) Matorial (TE2)		
Stratifie	ed Lavers (A5) (I RR C)	Depleted N	yeu Matrix (1atrix (E3)	(12)		Other (Explain in Remarks)			
1 cm M	uck (A9) (LRR D)	/	Redox Dar	k Surface (F	-6)			in in tomania)		
Deplete	ed Below Dark Surface	(A11)	Depleted D	ark Surface	e (F7)					
Thick D	ark Surface (A12)	· /	Redox Dep	oressions (F	8)					
Sandy I	Mucky Mineral (S1)		Vernal Poo	ls (F9)			³ Indicators of hyd	drophytic veget	ation and	
Sandy (Gleyed Matrix (S4)						wetland hydro	ology must be p	oresent.	
Restrictive	Layer (if present):									
Туре:										
Depth (in	nches):						Hydric Soil Pres	ent? Yes	No	X
Remarks:										
	h No rodov concor	trations	ovident Soil not k	wdrie						
Loanny Sand		lations		iyunc.						

Wetland Hydrology Indicators:	Secondary Indicators (2 or more required)
Primary Indicators (any one indicator is sufficient)	Water Marks (B1) (Riverine)
Surface Water (A1) Salt Crust (B11)	Sediment Deposits (B2) (Riverine)
High Water Table (A2) Biotic Crust (B12) Drift Deposits (B3) (Riverine)
Saturation (A3) Aquatic Invertebr	ates (B13) Drainage Patterns (B10)
Water Marks (B1) (Nonriverine) Hydrogen Sulfide	Odor (C1) Dry-Season Water Table (C2)
Sediment Deposits (B2) (Nonriverine) Oxidized Rhizos	heres along Living Roots (C3) Thin Muck Surface (C7)
Drift Deposits (B3) (Nonriverine) Presence of Red	uced Iron (C4) Crayfish Burrows (C8)
Surface Soil Cracks (B6) Recent Iron Red	uction in Plowed Soils (C6) Saturation Visible on Aerial Imagery (C9)
Inundation Visible on Aerial Imagery (B7) Other (Explain in	Remarks) Shallow Aquitard (D3)
Water-Stained Leaves (B9)	FAC-Neutral Test (D5)
Field Observations:	
Surface Water Present? Yes No Depth (inches):	
Water Table Present? Yes <u>No</u> Depth (inches):	
Saturation Present? Yes <u>No</u> Depth (inches): (includes capillary fringe)	Wetland Hydrology Present? Yes No
Describe Recorded Data (stream gauge, monitoring well, aerial photos	, previous inspections), if available:
Remarks:	
Hydrology indicators not present.	

Project/Site: Pond 20	City/County: Imperial Beach/San Diego Sampling Date: 7/1/08					
Applicant/Owner: Port of San Diego	State: CA Sampling Point: DP39/PP39					
Investigator(s): Rebecca Erickson/Brad Kelly	Section, Township, Range: S20; T18S; R2W					
Landform (hillslope, terrace, etc.): salt panne	Local relief (concave, convex, none): none Slope (%): 0%					
Subregion (LRR): C	299786.85244 Long: 1793989.74519 Datum: NAD83					
Soil Map Unit Name: Huerhuero-Urban land complex	NWI classification:					
Are climatic / hydrologic conditions on the site typical for this time of year? Yes <u>×</u> No (If no, explain in Remarks.) Are Vegetation <u>No</u> , Soil <u>No</u> , or Hydrology <u>No</u> significantly disturbed? Are "Normal Circumstances" present? Yes <u>×</u> No (If needed, explain any answers in Remarks.) SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.						
Hydrophytic Vegetation Present? Yes No Hydric Soil Present? Yes No Wetland Hydrology Present? Yes No	X Is the Sampled Area X within a Wetland? Yes NoX					

Remarks:

Non-jurisdictional.

VEGETATION

	Absolute	Dominant	Indicator	Dominance Test worksheet:	
Tree Stratum (Use scientific names.)	% Cover	Species?	Status	Number of Dominant Species	
1				That Are OBL, FACW, or FAC: (A	A)
2				Total Number of Dominant	
3.				Species Across All Strata: 1 (B	3)
4					,
				Percent of Dominant Species	-
Sapling/Shrub Stratum				That Are OBL, FACW, or FAC: (A	√В)
1 -				Prevalence Index worksheet:	
··				Total % Cover of: Multiply by:	
2					
3					
4				FACW species x 2 =	
5				FAC species x 3 =	
Total Cover				FACU species <u>30</u> x 4 = <u>120</u>	
Herb Stratum	00		FAOL	UPL species x 5 =	
1. Mesembryanthemum hodiflorum	30	NO	FACU	Column Totals: 30 (A) 120 ((B)
2					. ,
3				Prevalence Index = B/A = 4.0	
4.				Hydrophytic Vegetation Indicators:	
5				Dominance Test is >50%	
6.				Prevalence Index is ≤3.0 ¹	
0				Morphological Adaptations ¹ (Provide supporting	r
/	<u> </u>			data in Remarks or on a separate sheet)	9
8	200/			Problematic Hydrophytic Vegetation ¹ (Explain)	
Total Cover:	30%				
Woody Vine Stratum				¹ Indiantary of hydrig and watland hydrology mus	
1				he present	51
2					
Total Cover				Hydrophytic	
% Bare Ground in Herb Stratum % Cover	of Biotic Cu	ruet		Vegetation Present? Yes No X	
		ust			
Remarks:					
No hydrophytic vegetation present.					

I

Depth	Matrix		Rede	ox Features							
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Rema	arks		
)-12	25YR 3/2						<u> </u>	Lo	amy sand		
Type: C=C	oncentration, D=Depl	etion, RM	=Reduced Matrix.	² Location:	PL=Pore	e Lining, R	C=Root Channel, M	=Matrix.			
lydric Soil	Indicators: (Applica	able to all	LRRs, unless othe	erwise note	d.)		Indicators for P	roblematic Hy	dric Soils ³ :		
Histosol	(A1)		Sandy Rec	lox (S5)			1 cm Muck (A9) (LRR C)			
Black H	(A2)		Supped Matrix (So)				Reduced Vertic (E18)				
Hydroge	n Sulfide (A4)		Loamy Gle	ved Matrix	(F2)		Red Parent	Material (TF2)			
Stratifie	d Lavers (A5) (I RR (:)	Depleted M	Aatrix (E3)	(12)		Other (Explain in Remarks)				
1 cm Mi	uck (A9) (I RR D))	Bedox Dar	k Surface (F	-6)				/		
Deplete	d Below Dark Surface	e (A11)	Depleted D	ark Surface	e (F7)						
Thick D	ark Surface (A12)		Redox Der	ressions (F	8)						
Sandy N	/ucky Mineral (S1)		Vernal Poo	ols (F9)	- /		³ Indicators of hydrophytic vegetation and				
Sandy C	Gleved Matrix (S4)						wetland hydrology must be present				
Restrictive	Layer (if present):							3,			
Type:	,										
Depth (in	ches):						Hydric Soil Pres	ent? Yes	No	>	
Remarks:											
pamy sand	. No redox concer	ntrations of	evident. Soil not h	nydric.							

Wetland Hydrology Indicators:	Secondary Indicators (2 or more required)
Primary Indicators (any one indicator is sufficient)	Water Marks (B1) (Riverine)
Surface Water (A1) Salt Crust (B11)	Sediment Deposits (B2) (Riverine)
High Water Table (A2) Biotic Crust (B12)	Drift Deposits (B3) (Riverine)
Saturation (A3) Aquatic Invertebrates (B13)	Drainage Patterns (B10)
Water Marks (B1) (Nonriverine) Hydrogen Sulfide Odor (C1)	Dry-Season Water Table (C2)
Sediment Deposits (B2) (Nonriverine) Oxidized Rhizospheres along Li	iving Roots (C3) Thin Muck Surface (C7)
Drift Deposits (B3) (Nonriverine) Presence of Reduced Iron (C4)	Crayfish Burrows (C8)
Surface Soil Cracks (B6) Recent Iron Reduction in Plowe	ed Soils (C6) Saturation Visible on Aerial Imagery (C9)
Inundation Visible on Aerial Imagery (B7) Other (Explain in Remarks)	Shallow Aquitard (D3)
Water-Stained Leaves (B9)	FAC-Neutral Test (D5)
Field Observations:	
Surface Water Present? Yes No Depth (inches):	_
Water Table Present? Yes No Depth (inches):	-
Saturation Present? Yes No Depth (inches): (includes capillary fringe)	_ Wetland Hydrology Present? Yes No
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspe	ections), if available:
Remarks:	
Hydrology indicators not present.	

Project/Site: Pond 20	City/County: Imperial Beach/San Diego Sampling Date: 7/1/08
Applicant/Owner: Port of San Diego	State: CA Sampling Point: DP40/PP40
Investigator(s): Rebecca Erickson/Brad Kelly	Section, Township, Range: S20; T18S; R2W
Landform (hillslope, terrace, etc.): salt panne	Local relief (concave, convex, none): none Slope (%): 0%
Subregion (LRR): C Lat: 629	99774.64289 Long: 1793950.53876 Datum: NAD83
Soil Map Unit Name: Huerhuero-Urban land complex	NWI classification:
Are climatic / hydrologic conditions on the site typical for this time of ye Are Vegetation <u>No</u> , Soil <u>No</u> , or Hydrology <u>No</u> significantly Are Vegetation <u>No</u> , Soil <u>No</u> , or Hydrology <u>No</u> naturally pr SUMMARY OF FINDINGS – Attach site map showing	ear? Yes X No (If no, explain in Remarks.) v disturbed? Are "Normal Circumstances" present? Yes X No voblematic? (If needed, explain any answers in Remarks.) g sampling point locations, transects, important features, etc.
Hydrophytic Vegetation Present? Yes No X Hydric Soil Present? Yes X No	Is the Sampled Area within a Wetland? Yes <u>×</u> No
Remarks: ACOE/CCC jurisdictional. Please see hydrology notes.	

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

opui	Matrix		Redo	ox Features	s					
nches)	Color (moist)		Color (moist)	%	Type ¹	Loc ²	Texture	Remarks		
Type: C=C	oncentration. D=Depl	 etion. RM=	Reduced Matrix.	² Location	: PL=Por	e Linina. R	C=Root Channel. M	Matrix.		
ydric Soil	Indicators: (Applica	ble to all	LRRs, unless othe	rwise not	ed.)	<u> </u>	Indicators for Pr	oblematic Hydric S	Soils ³ :	
Histoso	(A1)		Sandy Red	ox (S5)			1 cm Muck (A	A9) (LRR C)		
_ Histic E	pipedon (A2)		Stripped M	atrix (S6)			2 cm Muck (A10) (LRR B)			
_ Black H	istic (A3)		Loamy Muo	cky Minera	l (F1)		Reduced Vertic (F18)			
Hydroge	en Sulfide (A4)		Loamy Gle	yed Matrix	(F2)		Red Parent Material (TF2)			
Stratifie	d Layers (A5) (LRR C)	Depleted N	latrix (F3)			Other (Explain in Remarks)			
1 cm Mi	uck (A9) (LRR D)		Redox Dar	k Surface ((F6)					
_ Deplete	d Below Dark Surface	(A11)	Depleted D	ark Surfac	e (F7)					
Thick D	ark Surface (A12)		Redox Dep	ressions (I	F8)					
Sandy M	/lucky Mineral (S1)		Vernal Poo	ls (F9)			³ Indicators of hyd	rophytic vegetation	and	
Sandy C	Gleyed Matrix (S4)						wetland hydrology must be present.			
Restrictive	Layer (if present):									
Туре:										
	ches):						Hydric Soil Prese	nt? Yes X	No	
Depth (in										

Wetland Hydrology Indicators:		Secondary Indicators (2 or more required)
Primary Indicators (any one indicator is sufficient)	Water Marks (B1) (Riverine)
 Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonriverine) Sediment Deposits (B2) (Nonriverine) Drift Deposits (B3) (Nonriverine) Surface Soil Cracks (B6) X Inundation Visible on Aerial Imagery (B7) 	 X Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Presence of Reduced Iron (C4) Recent Iron Reduction in Plowed Soc X Other (Explain in Remarks) 	Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2) Roots (C3) Thin Muck Surface (C7) Crayfish Burrows (C8) bils (C6) Shallow Aquitard (D3) EAO No. (D1 Tool (205)
Water-Stained Leaves (B9)		FAC-Neutral Test (D5)
Surface Water Present? Yes No Water Table Present? Yes No Saturation Present? Yes No (includes capillary fringe) Describe Recorded Data (stream gauge, monitor)	Depth (inches): Depth (inches): Depth (inches): Ing well, aerial photos, previous inspection	Wetland Hydrology Present? Yes X No
Remarks:		
In center of channel. Hydrologic indicators p	present. 2005 Aerial Imagery and rai	nfall data.

Project/Site: Pond 20	City/County: Imperial Beach/San Diego Sampling Date: 7/1/	08				
Applicant/Owner: Port of San Diego	State: CA Sampling Point: DP4	41/PP41				
Investigator(s): Rebecca Erickson/Brad Kelly	Section, Township, Range: <u>S20;</u> T18S; R2W					
Landform (hillslope, terrace, etc.): salt panne	Local relief (concave, convex, none): <u>none</u> Slope (%): <u>0%</u>				
Subregion (LRR): C Lat:	6299770.20498 Long: 1793893.94392 Datum:	VAD83				
Soil Map Unit Name: Huerhuero-Urban land complex	NWI classification:					
Are climatic / hydrologic conditions on the site typical for this time of year? Yes <u>X</u> No (If no, explain in Remarks.) Are Vegetation <u>No</u> , Soil <u>No</u> , or Hydrology <u>No</u> significantly disturbed? Are "Normal Circumstances" present? Yes <u>X</u> No (If no edded, explain any answers in Remarks.) Are Vegetation <u>No</u> , Soil <u>No</u> , or Hydrology <u>No</u> naturally problematic? (If needed, explain any answers in Remarks.)						
Hydrophytic Vegetation Present? Yes No Hydric Soil Present? Yes No Wetland Hydrology Present? Yes No	X Is the Sampled Area X within a Wetland? Yes No X					

Remarks:

Non-jurisdictional.

	Absolute	Dominant	Indicator	Dominance Test worksheet:	
<u>Tree Stratum</u> (Use scientific names.) 1. <u>-</u>	% Cover	Species?	Status	Number of Dominant Species That Are OBL, FACW, or FAC:0	(A)
2				Total Number of Dominant	
3				Species Across All Strata: 2	(B)
4				Percent of Dominant Species	
Total Cover	:			That Are OBL, FACW, or FAC:0	(A/B)
Sapling/Shrub Stratum					
1				Trivial of Constant C	
2	·		. <u> </u>	I otal % Cover of: Multiply by:	-
3			<u> </u>	OBL species x 1 =	_ !
4			<u> </u>	FACW species x 2 =	_
5				FAC species x 3 =	_
Total Cover	:			FACU species <u>30</u> x 4 = <u>120</u>	_
Herb Stratum				UPL species 40 x 5 = 200	
1. Camissonia cheiranthifolia	40	Yes	UPL	Column Totals: 70 (A) 320	(B)
2. Mesembryanthemum nodiflorum	15	Yes	FACU		_ (- /
_{3.} Salsola tragus	15	No	FACU	Prevalence Index = B/A = 4.57	_
4				Hydrophytic Vegetation Indicators:	
5.				Dominance Test is >50%	
6.				Prevalence Index is ≤3.0 ¹	
7.				Morphological Adaptations ¹ (Provide support	ing
8				data in Remarks or on a separate sheet)	
Total Cover	70%			Problematic Hydrophytic Vegetation ¹ (Explai	n)
Woody Vine Stratum					
1	·		<u> </u>	Indicators of hydric soil and wetland hydrology n	nust
2					
Total Cover	:			Hydrophytic	
% Bare Ground in Herb Stratum <u>30%</u> % Cover	of Biotic C	rust		Present? Yes No X	
Remarks:					
No hydrophytic vegetation present					

Depth	Matrix		Red	ox Features				
(inches)	Color (moist)	%	Color (moist)	<u>%</u> Type ¹	Loc ²	Texture	Rema	rks
)-12	25YR 3/2	·					Loa	amy sand
		. <u> </u>						
Type: C=C	oncentration, D=Dep	letion, RM=		² Location: PL=Por	e Lining, F	RC=Root Channel, M	=Matrix.	
lydric Soil	Indicators: (Applic	able to all	LRRs, unless othe	erwise noted.)	0.	Indicators for P	roblematic Hyd	dric Soils ³ :
Histoso Histic E	l (A1) pipedon (A2)		Sandy Rec Stripped M	lox (S5) atrix (S6)		1 cm Muck (2 cm Muck (A9) (LRR C) A10) (LRR B)	
Black H	istic (A3)		Loamy Mu	cky Mineral (F1)		Reduced Ve	ertic (F18)	
Hydroge	en Sulfide (A4)		Loamy Gle	yed Matrix (F2)		Red Parent	Material (TF2)	
Stratifie	d Layers (A5) (LRR (C)	Depleted N	1atrix (F3)		Other (Expla	ain in Remarks)	
1 cm M	uck (A9) (LRR D)		Redox Dar	k Surface (F6)				
Deplete	d Below Dark Surfac	e (A11)	Depleted D	ark Surface (F7)				
Thick D	ark Surface (A12)		Redox Dep	pressions (F8)				
Sandy M	Mucky Mineral (S1)		Vernal Poo	ols (F9)		³ Indicators of hyd	drophytic vegeta	ation and
Sandy (Gleyed Matrix (S4)					wetland hydro	ology must be p	resent.
Restrictive	Layer (if present):							
Type:								
Depth (in	iches):					Hydric Soil Pres	ent? Yes	No
Remarks:								
amy sand	No redox conce	ntrations	wident Soil not k	ovdric				
Janny Sand				iyuno.				

Wetland Hydrology Indicators:		Secondary Indicators (2 or more required)
Primary Indicators (any one indicator is sufficient	i)	Water Marks (B1) (Riverine)
Surface Water (A1)	X Salt Crust (B11)	Sediment Deposits (B2) (Riverine)
High Water Table (A2)	Biotic Crust (B12)	Drift Deposits (B3) (Riverine)
Saturation (A3)	Aquatic Invertebrates (B13)	Drainage Patterns (B10)
Water Marks (B1) (Nonriverine)	Hydrogen Sulfide Odor (C1)	Dry-Season Water Table (C2)
Sediment Deposits (B2) (Nonriverine)	Oxidized Rhizospheres along Livir	ng Roots (C3) Thin Muck Surface (C7)
Drift Deposits (B3) (Nonriverine)	Presence of Reduced Iron (C4)	Crayfish Burrows (C8)
Surface Soil Cracks (B6)	Recent Iron Reduction in Plowed S	Soils (C6) Saturation Visible on Aerial Imagery (C9)
Inundation Visible on Aerial Imagery (B7)	Other (Explain in Remarks)	Shallow Aquitard (D3)
Water-Stained Leaves (B9)		FAC-Neutral Test (D5)
Field Observations:		
Surface Water Present? Yes No	Depth (inches):	
Water Table Present? Yes No	Depth (inches):	
Saturation Present? Yes No (includes capillary fringe)	Depth (inches):	Wetland Hydrology Present? Yes NoX
Describe Recorded Data (stream gauge, monitor	ring well, aerial photos, previous inspec	tions), if available:
Remarks:		
Hydrology indicators not present.		

Project/Site: Pond 20	City/County: Imper	ial Beach/San Diego	Sampling Date: 7/1/08			
Applicant/Owner: Port of San Diego		State: CA	Sampling Point: DP42/PP42			
Investigator(s): Rebecca Erickson/Brad Kelly	Section, Township,	Range: <u>S20; T18S; R2W</u>				
Landform (hillslope, terrace, etc.): flat upland	Local relief (conca	ve, convex, none): <u>none</u>	Slope (%): 0%			
Subregion (LRR): C Lat:	6300115.58102	Long: <u>1794399.6727</u>	0 Datum: NAD83			
Soil Map Unit Name: Drainage/perennial		NWI classifi	cation:			
Are climatic / hydrologic conditions on the site typical for this time of year? Yes <u>X</u> No (If no, explain in Remarks.) Are Vegetation <u>No</u> , Soil <u>No</u> , or Hydrology <u>No</u> significantly disturbed? Are "Normal Circumstances" present? Yes <u>X</u> No (If needed, explain any answers in Remarks.) Are Vegetation <u>No</u> , Soil <u>No</u> , or Hydrology <u>No</u> naturally problematic? (If needed, explain any answers in Remarks.) SUMMARY OF FINDINGS – Attach site map showing sampling point locations transects important features etc.						
Hydrophytic Vegetation Present? Yes No Hydric Soil Present? Yes No Wetland Hydrology Present? Yes No	X X X X X Within a We	oled Area etland? Yes	NoX			

Remarks:

Non-jurisdictional.

	Absolute	Dominant	Indicator	Dominance Test worksheet:
<u>Tree Stratum</u> (Use scientific names.) 1. <u>-</u>	% Cover	Species?	Status	Number of Dominant Species That Are OBL, FACW, or FAC:0 (A)
2				Total Number of Dominant
3				Species Across All Strata: <u>2</u> (B)
4Total Cover:				Percent of Dominant Species That Are OBL, FACW, or FAC:0 (A/B)
				Provalanca Index workshoot:
1				Total % Cover of:
2	. <u> </u>			
3				
4	·		·	FACW species X 2 =
5			. <u> </u>	FAC species x 3 =
Total Cover:				FACU species 40 x 4 = 120
☐ Camissonia cheiranthifolia	40	Yes	UPL	UPL species 40 x 5 = 200
Mesembryanthemum nodiflorum	15	Yes	FACU	Column Totals: 70 (A) 320 (B)
3. Salsola tragus	15	No	FACU	Prevalence Index = B/A =4.57
4.				Hydrophytic Vegetation Indicators:
5				Dominance Test is >50%
6				Prevalence Index is ≤3.0 ¹
7				Morphological Adaptations ¹ (Provide supporting
8				data in Remarks or on a separate sheet)
Total Cover:	70%			Problematic Hydrophytic Vegetation' (Explain)
Woody Vine Stratum				¹ Indicators of hydric coil and watland hydrology must
1	. <u> </u>			be present.
2				Hydrophysic
Total Cover:				Vegetation
% Bare Ground in Herb Stratum <u>30%</u> % Cover	of Biotic C	rust		Present? Yes <u>No X</u>
Remarks:				
Hydrophytic vegetation not dominant. DP42 located i	n disturbe	d upland.		

Profile Desc	cription: (Describe t	o the depth ne	eded to docu	ment the i	ndicator	or confirm	n the absence of indi	cators.)		
Depth	Matrix		Redo	x Features	; 1	1 2	Tartan	Damada		
(Inches)	Color (moist)	<u> % </u>	olor (moist)	%	Type	LOC	Texture	<u>Remarks</u>		
0-12								Sanu		
							<u> </u>			
		·					·			
							·			
¹ Type: C=C	oncentration, D=Deple	etion, RM=Red	uced Matrix.	² Location	PL=Por	e Lining, R	RC=Root Channel, M=I	Matrix.		
Hydric Soil	Indicators: (Applica	ble to all LRR	s, unless othe	rwise note	ed.)		Indicators for Pro	blematic Hydric	Soils ³ :	
Histosol	(A1)	-	Sandy Red	ox (S5)			1 cm Muck (A	9) (LRR C)		
Histic E	pipedon (A2)	-	Stripped Ma	atrix (S6)			2 cm Muck (A	10) (LRR B)		
Black H	istic (A3)	-	Loamy Muc	ky Mineral	(F1)		Reduced Vert	ic (F18)		
Hydroge	en Sulfide (A4)	-	Loamy Gle	yed Matrix	(F2)		Red Parent M	aterial (TF2)		
Stratifie	d Layers (A5) (LRR C) _	Depleted M	latrix (F3)			Other (Explain	ı in Remarks)		
1 cm Mi	uck (A9) (LRR D)	-	Redox Darl	< Surface (F6)					
Deplete	d Below Dark Surface	(A11) _	Depleted D	ark Surface	e (F7)					
Thick Da	ark Surface (A12)	-	Redox Dep	ressions (F	-8)		3			
Sandy N	Aucky Mineral (S1)	-	Vernal Poo	ls (F9)			Indicators of hydro	ophytic vegetation	1 and	
Sandy C	Gleyed Matrix (S4)						wetland hydrold	ogy must be prese	ent.	
Restrictive	Layer (if present):									
Type:										
Depth (in	ches):						Hydric Soil Preser	it? Yes	No	<u> </u>
Remarks:										
No evidence	of hydric soil									
	e of fryund soll.									
HYDROLO	GY									

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

Project/Site: Pond 20	City/County: Impe	erial Beach/San Diego	Sampling Date: 7/1/08
Applicant/Owner: Port of San Diego		State: CA	Sampling Point: DP43/PP43
Investigator(s): Rebecca Erickson/Brad Kelly	Section, Townshi	o, Range: <u>S20;</u> T18S; R2W	
Landform (hillslope, terrace, etc.): flat upland	Local relief (conc	ave, convex, none): none	Slope (%): 0%
Subregion (LRR): C	at: 6300133.59308	Long: 1794431.1938	0 Datum: NAD83
Soil Map Unit Name: Drainage/perennial		NWI classifi	cation:
Are climatic / hydrologic conditions on the site typical for this time Are Vegetation <u>No</u> , Soil <u>No</u> , or Hydrology <u>No</u> signifi Are Vegetation <u>No</u> , Soil <u>No</u> , or Hydrology <u>No</u> natura	e of year? Yes <u>X</u> icantly disturbed? ally problematic?	No (If no, explain in F Are "Normal Circumstances" (If needed, explain any answe	Remarks.) present? Yes X No ers in Remarks.)
Hydrophytic Vegetation Present? Yes No Hydric Soil Present? Yes No	X Is the San	npled Area	N- X

Hydric Soil Present? Wetland Hydrology Present?	Yes Yes	No No	× ×	within a Wetland?	Yes	No	×
Remarks:							
Non-jurisdictional.							

	Absolute	Dominant	Indicator	Dominance Test worksheet:	
<u>Tree Stratum</u> (Use scientific names.) 1	% Cover	Species?	Status	Number of Dominant Species That Are OBL, FACW, or FAC:0	(A)
2 3				Total Number of Dominant Species Across All Strata:1	(B)
4Total Cover:				Percent of Dominant Species That Are OBL, FACW, or FAC: 0	(A/B)
				Brevalence Index worksheet:	
1					
2			·		-
3				OBL species x 1 =	_
4				FACW species 20 x 2 = 40	-
5				FAC species $0 \times 3 = 0$	-
Total Cover:				FACU species <u>80</u> x 4 = <u>320</u>	_
Herb Stratum				UPL species 0 x 5 = 0	_
1. Mesembryanthemum nodiflorum	80	Yes	FACU	Column Totals: 100 (A) 360	(B)
_{2.} Cressa truxillensis	20	No	FACW		_ (=)
3				Prevalence Index = B/A = 3.6	_
4				Hydrophytic Vegetation Indicators:	
5				Dominance Test is >50%	
6				Prevalence Index is $\leq 3.0^{1}$	
7				Morphological Adaptations ¹ (Provide support data in Remarks or on a separate sheet)	ing
8				Droblematic Hydrophytic Vegetation ¹ (Evaluation	-)
Total Cover:	100%				1)
<u>vvoody vine Stratum</u>				¹ Indiantara of hydria anil and watland hydrology a	wet
1	<u> </u>			be present.	lusi
2					
Total Cover:				Hydrophytic Vegetation	
% Bare Ground in Herb Stratum % Cover	of Biotic Ci	rust		Present? Yes <u>No X</u>	
Remarks:				•	
Hydrophytic vegetation not dominant. DP43 located v	within dist	urbed upla	nd.		

SOIL

Profile Desc	cription: (Describe t	o the depth r	needed to docur	ment the ind	icator o	r confirm	n the absence of indicators.)		
Depth	Matrix		Redo	ox Features	1				
(inches)	Color (moist)		Color (moist)	%1	Type'	Loc	Texture Remarks		
0-12	7.5YR 3/2						Clay		
	·								
1				2					
Type: C=C Hydric Soil	oncentration, D=Deploin Indicators: (Applica	etion, RM=Re I ble to all LR	duced Matrix. Rs, unless othe	Location: F rwise noted.	PL=Pore)	Lining, R	C=Root Channel, M=Matrix. Indicators for Problematic Hydric Soils ³	:	
Histosol	l (A1)		Sandy Red	ox (S5)			1 cm Muck (A9) (LRR C)		
Histic E	pipedon (A2)		Stripped Ma	atrix (S6)			2 cm Muck (A10) (LRR B)		
Black H	istic (A3)		Loamy Muc	cky Mineral (F	-1)		Reduced Vertic (F18)		
Hydroge	en Sulfide (A4)		Loamy Gle	yed Matrix (F2	2)		Red Parent Material (TF2)		
Stratifie	d Layers (A5) (LRR C)	Depleted M	latrix (F3)			Other (Explain in Remarks)		
1 cm Mu	uck (A9) (LRR D)		Redox Darl	k Surface (F6	5)				
Deplete	d Below Dark Surface	(A11)	Depleted D	ark Surface (I	F7)				
Thick Da	ark Surface (A12)		Redox Dep	ressions (F8))				
Sandy M	Mucky Mineral (S1)		Vernal Poo	ls (F9)			³ Indicators of hydrophytic vegetation and		
Sandy C	Gleyed Matrix (S4)						wetland hydrology must be present.		
Restrictive	Layer (if present):								
Туре:			_						
Depth (in	ches):		_				Hydric Soil Present? Yes No	<u> </u>	
Remarks:									
Top 1 inch i	s neat (Fine nlatv	structure) N	lo mottles So	ils not hydri	C				
				no not ny an	0.				
Wetland Hv	drology Indicators:						Secondary Indicators (2 or more requ	ired)	
Primary Indi	cators (any one indice	tor is sufficier	nt)				Water Marks (B1) (Riverine)	<u></u>	
Surface	Water (A1)		Salt Crust	(B11)			Sediment Deposits (B2) (Riverin	e)	

Surface Water (A1)			Sediment Deposits (B2) (Riv	erine)			
High Water Table (A2)		-	Biotic Crust (B12)		Drift Deposits (B3) (Riverine)		
 Saturation (A3) Water Marks (B1) (Nonriverine) Sediment Deposits (B2) (Nonriverine) Drift Deposits (B3) (Nonriverine) 			Aquatic Invertebrates (B13)		Drainage Patterns (B10)		
			Hydrogen Sulfide Odor (C1)		Dry-Season Water Table (C2	2)	
			Oxidized Rhizospheres along L	iving Roots (C3)	Thin Muck Surface (C7)		
			Presence of Reduced Iron (C4))	Crayfish Burrows (C8)		
Surface Soil Cracks (B6)		-	Recent Iron Reduction in Plowe	ed Soils (C6)	Saturation Visible on Aerial I	magery (C9)	
Inundation Visible on Aeri	ial Imagery ((B7)	Other (Explain in Remarks)		Shallow Aquitard (D3)		
Water-Stained Leaves (B	9)				FAC-Neutral Test (D5)		
Field Observations:							
Surface Water Present?	Yes	No	Depth (inches):	_			
Water Table Present?	Yes	No	Depth (inches):	_			
Saturation Present? (includes capillary fringe)	Yes	_ No	Depth (inches):	_ Wetland Hy	drology Present? Yes	No <u>×</u>	
Describe Recorded Data (streat	am gauge, r	monitorii	ng well, aerial photos, previous insp	pections), if availa	able:		

Project/Site: Pond 20	City/County: Impe	rial Beach/San Diego	_ Sampling Date: 7/1/08					
Applicant/Owner: Port of San Diego		State: CA	_ Sampling Point: DP44/PP44					
Investigator(s): Rebecca Erickson/Brad Kelly	Section, Township	Section, Township, Range: S20; T18S; R2W						
Landform (hillslope, terrace, etc.): flat upland	Local relief (conca	ave, convex, none): <u>none</u>	Slope (%): 0%					
Subregion (LRR): C	Lat: <u>6300150.77496</u>	Long: <u>1794466.1217</u>	0 Datum: NAD83					
Soil Map Unit Name: Drainage/perennial		NWI classif	ication:					
Are climatic / hydrologic conditions on the site typical for this time of year? Yes <u>×</u> No (If no, explain in Remarks.) Are Vegetation <u>No</u> , Soil <u>No</u> , or Hydrology <u>No</u> significantly disturbed? Are "Normal Circumstances" present? Yes <u>×</u> No (If needed, explain any answers in Remarks.) SUMMARY OF FINDINGS – Attach site map showing sampling point locations transects important features etc.								
Hydrophytic Vegetation Present? Yes No _ Hydric Soil Present? Yes No _ Wetland Hydrology Present? Yes No _	X Is the Sam X within a We	pled Area etland? Yes	No <u> X</u>					

Remarks:

Non-jurisdictional.

	Absolute	Dominant	Indicator	Dominance Test worksheet:
<u>Tree Stratum</u> (Use scientific names.) 1. <u>-</u>	<u>% Cover</u>	<u>Species?</u>	<u>Status</u>	Number of Dominant Species That Are OBL, FACW, or FAC:0 (A)
2				Total Number of Dominant
3				Species Across All Strata: <u>2</u> (B)
4				Percent of Dominant Spacios
Total Cover:				That Are OBL, FACW, or FAC: 0 (A/B)
Sapling/Shrub Stratum				
1			. <u> </u>	Prevalence Index worksheet:
2				Total % Cover of:Multiply by:
3				OBL species x 1 =
4.				FACW species x 2 =
5.				FAC species x 3 =
Total Cover:				FACU species $30 \times 4 = 120$
Herb Stratum				UPL species $40 \times 5 = 200$
_{1.} Camissonia cheiranthifolia	40	Yes	UPL	$\begin{array}{c c} \hline \hline$
2. Mesembryanthemum nodiflorum	15	Yes	FACU	
3. Salsola tragus	15	No	FACU	Prevalence Index = B/A =4.57
4				Hydrophytic Vegetation Indicators:
5.				Dominance Test is >50%
6				Prevalence Index is ≤3.0 ¹
7				Morphological Adaptations ¹ (Provide supporting
9				data in Remarks or on a separate sheet)
o	70%			Problematic Hydrophytic Vegetation ¹ (Explain)
Woody Vine Stratum				
1				¹ Indicators of hydric soil and wetland hydrology must
2			·	be present.
Total Cover:				Hydrophytic
% Bare Ground in Herb Stratum <u>30%</u> % Cover	of Biotic Ci	rust		Vegetation Present? Yes <u>No X</u>
Remarks:				
Hydrophytic vegetation not dominant. DP44 located i	n disturbe	d upland.		

Profile Desc	ription: (Describe to	o the depth	needed to docu	ment the i	ndicator	or confirm	the absence	of indicato	rs.)		
Depth	Matrix		Redo	ox Features							
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture		Remar	ks	
0-12									Sar	ıd	
				_							
1				21					•		
	ncentration, D=Deple	ble to all L	Reduced Matrix.		PL=Por	e Lining, R	C=Root Chann	iel, M=Matr	X. Notio Uvd	rio Soilo ³ .	
			KKS, unless oure	wise note	u.)		Indicators			ne sons .	
Histosol	(A1)		Sandy Red	ox (S5)			1 cm IV	luck (A9) (L			
HISTIC E	Dipedon (A2)		Supped Matrix (So)			2 CHI MUCK (A10) (LRR B)					
Віаск ні	STIC (A3)		Loamy Mucky Mineral (F1)				Reduced Venic (FTo) Red Decent Material (TE2)				
Hydroge	n Sulfide (A4)		Loany Gleyed Matrix (F2)			Red Pareni Material (TF2)					
)	Depleted Matrix (F3)				Other (Explain in F	(emarks)		
I CIII MIL	ICK (A9) (LKK D) A Bolow Dork Surface	(11)	Redox Dark Surface (F6)								
Depieter	below Dark Surface	(ATT)	Depieted D								
Thick Do	Ark Sullace (A12) Aucky Mineral (S1)		Vernal Pools (F9)				³ Indicators	of hydrophy	tic voceta	tion and	
Sandy K	loved Matrix (S4)			13 (1 3)			wetland	bydrology r	nuet he nr	acont	
Ganuy C	aver (if present):						wetianu	nyurology i	nust be pr	esent.	
Turner	Layer (il present).										
Type:											×
Depth (in	ches):						Hydric Soil	Present?	Yes	No	
Remarks:											
No evidence	of hydric soil										
	of fryund soll.										
HYDROLO	GY										

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

Project/Site: Pond 20	City/County: Imperial Beach/San Diego Sampling Date	<u>, 7/1/08</u>					
Applicant/Owner: Port of San Diego	State: CA Sampling Poin	t: DP45/PP45					
Investigator(s): Rebecca Erickson/Brad Kelly	Section, Township, Range: S20; T18S; R2W						
Landform (hillslope, terrace, etc.): flat upland	Local relief (concave, convex, none): <u>Concave</u> S	lope (%): <u>0%</u>					
Subregion (LRR): C	6300606.13722 Long: 1794791.78106 Da	itum: NAD83					
Soil Map Unit Name: Grangeville fine sandy loam	NWI classification:						
Are climatic / hydrologic conditions on the site typical for this time Are Vegetation <u>No</u> , Soil <u>No</u> , or Hydrology <u>No</u> signific Are Vegetation <u>No</u> , Soil <u>No</u> , or Hydrology <u>No</u> natura	f year? Yes X No (If no, explain in Remarks.) ntly disturbed? Are "Normal Circumstances" present? Yes (If needed, explain any answers in Remarks.)	<u>×</u> _{No}					
SUMMARY OF FINDINGS – Attach site map sho	ing sampling point locations, transects, important	features, etc.					
Hydrophytic Vegetation Present? Yes No Hydric Soil Present? Yes No	X X X Is the Sampled Area	×					

Hydric Soil Present?	Yes	No <u>X</u>	within a Wetland?	Ves	No	×
Wetland Hydrology Present?	Yes	No X		103	NO	
Remarks:						
Non-jurisdictional.						

	Absolute	Dominant	Indicator	Dominance Test worksheet:
Tree Stratum (Use scientific names.)	% Cover	Species?	Status	Number of Dominant Species
1				That Are OBL, FACW, or FAC: (A)
2				Tatal Marshare (Devaluant
3.				Species Across All Strata: 2 (B)
۰ ۸				
T				Percent of Dominant Species
Sapling/Shrub Stratum				That Are OBL, FACW, or FAC: 0 (A/B)
4 -				Prevalence Index worksheet
l				
2				
3				OBL species x 1 =
4				FACW species x 2 =
5				FAC species x 3 =
Total Cover:				FACU species <u>30</u> x 4 = <u>120</u>
Herb Stratum				UPL species $40 \times 5 = 200$
1. Camissonia cheiranthifolia	40	Yes	UPL	Column Totals: 70 (A) 320 (B)
2. Mesembryanthemum nodiflorum	15	Yes	FACU	
_{3.} Salsola tragus	15	No	FACU	Prevalence Index = B/A =4.57
4				Hydrophytic Vegetation Indicators:
5.				Dominance Test is >50%
6				Prevalence Index is ≤3.0 ¹
7				Morphological Adaptations ¹ (Provide supporting
9.			·	data in Remarks or on a separate sheet)
0	70%			Problematic Hydrophytic Vegetation ¹ (Explain)
Woody Vine Stratum	1070			
1 -				¹ Indicators of hydric soil and wetland hydrology must
1				be present.
Z				Hudron hutio
I otal Cover:				Vegetation
% Bare Ground in Herb Stratum <u>30%</u> % Cover	of Biotic C	rust		Present? Yes <u>No X</u>
Remarks:				·
Ludranhy tig vagatation not dominant				
nyurophytic vegetation not dominant.				

Profile Des	scription: (Describe t	to the depth	needed to docu	ment the i	ndicator	or confirn	n the absence of indicate	ors.)			
Depth (inchos)	Matrix Color (moist)	0/.	Color (moist)	ox Features	S Typo ¹		Toxturo	Pomarka			
<u>(incries)</u> 0-7	7.5YR 4/2	/0		/0	<u> </u>			Loam	ly sand		
7-12	7.5YR 3/2						·	Silty o	lav loam		
¹ Type: C=0 Hydric Soi	Concentration, D=Depl	etion, RM=R	educed Matrix. RRs, unless othe	² Location	: PL=Por ed.)	e Lining, F	C=Root Channel, M=Matri Indicators for Proble	ix. matic Hydrid	c Soils ³ :		
Histoso	ol (A1)		Sandy Red	lox (S5)			1 cm Muck (A9) (I	_RR C)			
Histic E	Epipedon (A2)		Stripped M	atrix (S6)			2 cm Muck (A10) (LRR B)				
Black I	Histic (A3)		Loamy Muo	cky Minera	l (F1)		Reduced Vertic (F	18)			
Hydrog	gen Sulfide (A4)		Loamy Gle	yed Matrix	(F2)		Red Parent Material (TF2)				
Stratifie	ed Layers (A5) (LRR C	;)	Depleted M	1atrix (F3)			Other (Explain in I	Remarks)			
1 cm M	/luck (A9) (LRR D)		Redox Dar	k Surface ((F6)						
Deplet	ed Below Dark Surface	e (A11)	Depleted D	ark Surfac	e (F7)						
Thick [Dark Surface (A12)		Redox Dep	ressions (I	F8)						
Sandy	Mucky Mineral (S1)		Vernal Poo	ls (F9)			³ Indicators of hydrophy	ytic vegetatio	n and		
Sandy	Gleyed Matrix (S4)						wetland hydrology	must be pres	ent.		
Restrictive	e Layer (if present):										
Type:											
Depth (i	inches):						Hydric Soil Present?	Yes	No	X	
Remarks:											
No mottles	present 0-12 inches	s. Hydric so	oils not present.								
HYDROL	OGY										
Wetland H	ydrology Indicators:						Secondary Indica	itors (2 or mo	ore require	ed)	
Defense and the s	P						Mater Marles	(D4) (D:			

Wedana nya ology maloa					occondury indicators (2 or more required)			
Primary Indicators (any one indicator is sufficient)					Water Marks (B1) (Riverine)			
Surface Water (A1)			Salt Crust (B11)		Sediment Deposits (B2) (Riverine)			
High Water Table (A2)		_	Biotic Crust (B12)		Drift Deposits (B3) (Riverine)			
Saturation (A3)		_	Aquatic Invertebrates (B13)		Drainage Patterns (B10)			
Water Marks (B1) (Non	riverine)	_	Hydrogen Sulfide Odor (C1)		Dry-Season Water Table (C2)			
Sediment Deposits (B2)) (Nonriverii	ne) _	Oxidized Rhizospheres along	Living Roots (C3)) Thin Muck Surface (C7)			
Drift Deposits (B3) (Nor	nriverine)	_	Presence of Reduced Iron (C	4)	Crayfish Burrows (C8)			
Surface Soil Cracks (B6)	S)	_	Recent Iron Reduction in Plov	wed Soils (C6)	Saturation Visible on Aerial Imagery (C9)			
Inundation Visible on A	erial Imagery	/ (B7)	Other (Explain in Remarks)		Shallow Aquitard (D3)			
Water-Stained Leaves ((B9)				FAC-Neutral Test (D5)			
Field Observations:								
Surface Water Present?	Yes	No	Depth (inches):					
Water Table Present?	Yes	No	Depth (inches):					
Saturation Present? (includes capillary fringe)	Yes	No	Depth (inches):	Wetland Hy	rdrology Present? Yes No			
Describe Recorded Data (st	ream gauge	, monitorin	g well, aerial photos, previous in	spections), if availa	able:			
Remarks:								
Hydrology indicators not p	oresent.							

Project/Site: Pond 20	_ City/County: Imperial Beach	/San Diego	Sampling Date: 7/1/08
Applicant/Owner: Port of San Diego		State: CA	Sampling Point: DP46/PP46
Investigator(s): Rebecca Erickson/Brad Kelly	_ Section, Township, Range: S	20; T18S; R2W	
Landform (hillslope, terrace, etc.): flat upland	Local relief (concave, convex	, none): <u>concave</u>	Slope (%): 0%
Subregion (LRR): C	300644.72393 Long	. <u>1794776.25562</u>	2 Datum: NAD83
Soil Map Unit Name: Grangeville fine sandy loam		NWI classific	ation:
Are climatic / hydrologic conditions on the site typical for this time of Are Vegetation <u>No</u> , Soil <u>No</u> , or Hydrology <u>No</u> significar Are Vegetation <u>No</u> , Soil <u>No</u> , or Hydrology <u>No</u> naturally SUMMARY OF FINDINGS – Attach site map showi	year? Yes <u>X</u> No <u></u> ly disturbed? Are "Norma problematic? (If needed, ng sampling point location	(If no, explain in R I Circumstances" p explain any answe ons, transects	emarks.) present? Yes <u>X</u> No rs in Remarks.) s, important features, etc.
Hydrophytic Vegetation Present? Yes No Hydric Soil Present? Yes No Wetland Hydrology Present? Yes No	Is the Sampled Area within a Wetland?	Yes	<u>× No</u>
Remarks: ACOE/CCC jurisdictional. See hydrology notes.	·		

	Absolute	Dominant	Indicator	Dominance Test worksheet:	
Tree Stratum (Use scientific names.)	<u>% Cover</u>	Species?	Status	Number of Dominant Species	
1				That Are OBL, FACW, or FAC: (A)	
2				Total Number of Dominant	
3				Species Across All Strata: (B)	
4					
Total Cover:				Percent of Dominant Species	1
Sapling/Shrub Stratum					,
1				Prevalence Index worksheet:	
2				Total % Cover of: Multiply by:	
3.				OBL species x 1 =	
4				FACW species x 2 =	
5				FAC species x 3 =	
Total Cover				FACU species x 4 =	
Herb Stratum					
1				Column Totalo: (A) (B)	
2					
3.				Prevalence Index = B/A =	
4.				Hydrophytic Vegetation Indicators:	
5				Dominance Test is >50%	
6				Prevalence Index is ≤3.0 ¹	
7				Morphological Adaptations ¹ (Provide supporting	
۰ ۵			·	data in Remarks or on a separate sheet)	
o				Problematic Hydrophytic Vegetation ¹ (Explain)	
Woody Vine Stratum					
1 -				¹ Indicators of hydric soil and wetland hydrology must	
?				be present.	
Total Cover:				Hydrophytic	
% Bare Ground in Herb Stratum % Cover	of Biotic Ci	rust		Present? Yes <u>No X</u>	
Remarks:					
I Invegetated No hydrophytic vegetation present					

Depth	Matrix		Redox F	eatures				
(inches)	Color (moist)	% Colo	r (moist)	<u>% Type¹</u>	Loc ²	Texture	Remarks	
)-4	7.5YR 2.5/3						Loamy sand	
5-12	Black						Muck	
Type: C=0 Hydric Soil	Concentration, D=Dep	etion, RM=Reduce	ed Matrix. ² Lo Inless otherwis	ocation: PL=Pore	e Lining, F	C=Root Channel, M Indicators for P	=Matrix. roblematic Hydric Soils ³ :	
Histoso	ol (A1)		Sandy Redox (S5)		1 cm Muck (A9) (LRR C)		
Histic E	Epipedon (A2)		Stripped Matrix (S6)			2 cm Muck (A10) (LRR B)		
Black H	Histic (A3)		Loamy Mucky Mineral (F1)			Reduced Vertic (F18)		
Hydrog	jen Sulfide (A4)		Loamy Gleyed Matrix (F2)			Red Parent Material (TF2)		
Stratifie	ed Layers (A5) (LRR C		<u>×</u> Depleted Matrix (F3)			Other (Explain in Remarks)		
1 cm M	luck (A9) (LRR D)		Redox Dark Su	irface (F6)				
Deplete	ed Below Dark Surface	e (A11)	Depleted Dark	Surface (F7)				
Thick D	Dark Surface (A12)		Redox Depress	sions (F8)				
X Sandy	Mucky Mineral (S1)		Vernal Pools (F	-9)		³ Indicators of hydrophytic vegetation and		
Sandy	Gleyed Matrix (S4)					wetland hydro	plogy must be present.	
Restrictive	Layer (if present):							
Туре:								
Depth (ii	nches):					Hydric Soil Pres	ent? Yes <u>×</u> No	
Remarks:						<u> </u>		
iydric soils	s present.							
IDROLU								

Wetland Hydrology Indicators:	Secondary Indicators (2 or more required)			
Primary Indicators (any one indicator is sufficient)	Water Marks (B1) (Riverine)			
Surface Water (A1) Salt Crust (B11)	Sediment Deposits (B2) (Riverine)			
High Water Table (A2) Biotic Crust (B12)	Drift Deposits (B3) (Riverine)			
X Saturation (A3) Aquatic Invertebrates (B13)	Drainage Patterns (B10)			
Water Marks (B1) (Nonriverine) Hydrogen Sulfide Odor (C1)	Dry-Season Water Table (C2)			
Sediment Deposits (B2) (Nonriverine) Oxidized Rhizospheres along Livin	ng Roots (C3) Thin Muck Surface (C7)			
Drift Deposits (B3) (Nonriverine) Presence of Reduced Iron (C4)	Crayfish Burrows (C8)			
Surface Soil Cracks (B6) Recent Iron Reduction in Plowed	Soils (C6) Saturation Visible on Aerial Imagery (C9)			
\underline{X} Inundation Visible on Aerial Imagery (B7) \underline{X} Other (Explain in Remarks)	Shallow Aquitard (D3)			
Water-Stained Leaves (B9)	FAC-Neutral Test (D5)			
Field Observations:				
Surface Water Present? Yes No Depth (inches):				
Water Table Present? Yes No Depth (inches):				
Saturation Present? Yes X No Depth (inches): 5-12 (includes capillary fringe)	Wetland Hydrology Present? Yes <u>×</u> No			
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspec	tions), if available:			
Remarks:				
DP46 located in the center of channel, currently dry. Saturated in 5-12 inches. and rainfall data.	Hydrologic indicators present. 2005 Aerial Imagery			

Project/Site: Pond 20	City/County: Imperial Beach/San Diego Sampling Date: 7/1/08							
Applicant/Owner: Port of San Diego	State: CA Sampling Point: DP47/PP47							
Investigator(s): Rebecca Erickson/Brad Kelly	Section, Township, Range: <u>S20;</u> T18S; R2W							
Landform (hillslope, terrace, etc.): flat upland	Local relief (concave, convex, none): Concave Slope (%): 0%							
Subregion (LRR): C	at: <u>6300677.14463</u> Long: <u>1794778.08433</u> Datum: <u>NAD83</u>							
Soil Map Unit Name: Grangeville fine sandy loam	NWI classification:							
Are climatic / hydrologic conditions on the site typical for this time of year? Yes <u>×</u> No (If no, explain in Remarks.) Are Vegetation <u>No</u> , Soil <u>No</u> , or Hydrology <u>No</u> significantly disturbed? Are "Normal Circumstances" present? Yes <u>×</u> No (If needed, explain any answers in Remarks.) Are Vegetation <u>No</u> , Soil <u>No</u> , or Hydrology <u>No</u> naturally problematic? (If needed, explain any answers in Remarks.) SUMMARX OF FINDINGS – Attach site map showing sampling point locations, transacts, important features, etc.								
Hydrophytic Vegetation Present? Yes No Hydric Soil Present? Yes No Wetland Hydrology Present? Yes No	X Is the Sampled Area X within a Wetland?							

Remarks:

Non-jurisdictional.

	Absolute	Dominant	Indicator	Dominance Test worksheet:
<u>Tree Stratum</u> (Use scientific names.) 1. ⁻	<u>% Cover</u>	Species?	Status	Number of Dominant Species That Are OBL, FACW, or FAC:0 (A)
2				Total Number of Dominant
3				Species Across All Strata: (B)
4				Demonst of Deminorst Species
Total Cover	:			That Are OBL, FACW, or FAC: 0 (A/B)
Sapling/Shrub Stratum				()
1	·	<u> </u>		Prevalence Index worksheet:
2	·		<u> </u>	Total % Cover of:Multiply by:
3				OBL species x 1 =
4				FACW species x 2 =
5				FAC species x 3 =
Total Cover	:			FACU species x 4 = 120
Herb Stratum	40	Ma a		UPL species 40 x 5 =200
1. Camissonia cheiranthitolia	40	Yes		Column Totals: (A) (B)
2. Mesembryanthemum nodiflorum	15	Yes	FACU	4.57
3. Salsola tragus	15	No	FACU	Prevalence Index = B/A =4.57
4				Hydrophytic Vegetation Indicators:
5				Dominance Test is >50%
6.				Prevalence Index is ≤3.0 ¹
7.				Morphological Adaptations ¹ (Provide supporting
8				data in Remarks or on a separate sheet)
Total Cover	. 70%			Problematic Hydrophytic Vegetation ¹ (Explain)
Woody Vine Stratum	·			
1	<u> </u>			¹ Indicators of hydric soil and wetland hydrology must
2				be present.
Total Cover	:			Hydrophytic Vegetation
% Bare Ground in Herb Stratum <u>30%</u> % Cover	of Biotic C	rust		Present? Yes <u>No X</u>
Remarks:				
Hydrophytic vegetation not dominant				
riyarophytic vegetation not dominant.				

Depth Matrix Redox Features									
inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks	
-7	7.5YR 4/2							Loamy sand	
-12	7.5YR 3/2							Silty clay loam	
	·						·		
	·								
	·								
ype: C=C	Concentration, D=Depl	etion, RM:	Reduced Matrix.	² Location	: PL=Por	e Lining, R	RC=Root Channel, M	=Matrix.	
ydric Soil	Indicators: (Applica	ble to all	LRRs, unless othe	erwise note	ed.)		Indicators for P	roblematic Hydric Soils ³ :	
_ Histoso	l (A1)		Sandy Red	Sandy Redox (S5)			1 cm Muck (A9) (LRR C)		
Histic E	pipedon (A2)		Stripped N	Stripped Matrix (S6)			2 cm Muck (A10) (LRR B)		
Black H	listic (A3)		Loamy Mu	Loamy Mucky Mineral (F1)				rtic (F18)	
_ Hydrog	en Sulfide (A4)		Loamy Gle	Loamy Gleyed Matrix (F2)				Material (TF2)	
Stratifie	ed Layers (A5) (LRR C)	Depleted N	Depleted Matrix (F3)			Other (Explain in Remarks)		
1 cm M	uck (A9) (LRR D)	,	Redox Da	Redox Dark Surface (F6)					
 Deplete	ed Below Dark Surface	(A11)	Depleted D	Depleted Dark Surface (F7)					
 Thick D	ark Surface (A12)	、	Redox Dep	oressions (F	-8)				
Sandv	Mucky Mineral (S1)		Vernal Pools (F9)				³ Indicators of hydrophytic vegetation and		
Sandy	Gleved Matrix (S4)						wetland hydrology must be present.		
estrictive	Layer (if present):						, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		
Туре:									
Depth (ir	nches):						Hydric Soil Prese	ent? Yes <u>No</u>	
emarks:									
o mottles	present 0-12 inches	. Hydric	soils not present.						

Wetland Hydrology Indicators:	Secondary Indicators (2 or more required)		
Primary Indicators (any one indicator is sufficient)	Water Marks (B1) (Riverine)		
Surface Water (A1) Salt Crust (B11)	Sediment Deposits (B2) (Riverine)		
High Water Table (A2) Biotic Crust (B12)	Drift Deposits (B3) (Riverine)		
Saturation (A3) Aquatic Invertebrates (B13)	Drainage Patterns (B10)		
Water Marks (B1) (Nonriverine) Hydrogen Sulfide Odor (C1)	Dry-Season Water Table (C2)		
Sediment Deposits (B2) (Nonriverine) Oxidized Rhizospheres along Livir	ng Roots (C3) Thin Muck Surface (C7)		
Drift Deposits (B3) (Nonriverine) Presence of Reduced Iron (C4)	Crayfish Burrows (C8)		
Surface Soil Cracks (B6) Recent Iron Reduction in Plowed S	Soils (C6) Saturation Visible on Aerial Imagery (C9)		
Inundation Visible on Aerial Imagery (B7) Other (Explain in Remarks)	Shallow Aquitard (D3)		
Water-Stained Leaves (B9)	FAC-Neutral Test (D5)		
Field Observations:			
Surface Water Present? Yes No Depth (inches):			
Water Table Present? Yes No Depth (inches):			
Saturation Present? Yes No Depth (inches): (includes capillary fringe)	Wetland Hydrology Present? Yes No		
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspect	tions), if available:		
Remarks:			
Hydrology indicators not present.			

Project/Site: Pond 20	City/County: Imperial	City/County: Imperial Beach/San Diego Sampling Date: 7/1/08						
Applicant/Owner: Port of San Diego		State: CA	Sampling Point: DP48/PP48					
Investigator(s): Rebecca Erickson/Brad Kelly	Section, Township, Ra	Section, Township, Range: S20; T18S; R2W						
Landform (hillslope, terrace, etc.): <u>flat upland</u>	Local relief (concave,	convex, none): none	Slope (%): 0%					
Subregion (LRR): C	at: <u>6299296.62841</u>	Long: <u>1794664.33664</u>	Datum: NAD83					
Soil Map Unit Name: Drainage/perennial		NWI classific	ation:					
Are climatic / hydrologic conditions on the site typical for this time of year? YesX No (If no, explain in Remarks.) Are VegetationNo, SoilNo, or HydrologyNo significantly disturbed? Are "Normal Circumstances" present? YesX No Are VegetationNo, SoilNo, or HydrologyNo naturally problematic? (If needed, explain any answers in Remarks.) SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.								
Hydrophytic Vegetation Present? Yes No Hydric Soil Present? Yes No Wetland Hydrology Present? Yes No	× Is the Sample × within a Wetla	d Area Ind? Yes	No <u> X</u>					

Remarks:

Non-jurisdictional.

Tree Stratum (Use scientific names.) % Cover Species? Status Number of Dominant Species 0 (A) 1
2.
3.
4.
Total Cover: Percent of Dominant Species 0 (A/B) 1
Sapling/Shrub Stratum I Prevalence Index worksheet: 2 Total % Cover of: Multiply by: 3 OBL species x 1 =
1 Prevalence Index worksheet: 2 3 OBL species x 1 =
2.
3 OBL species x 1 =
4. FACW species x 2 =
5. FAC species x 3 =
Total Cover: FACU species $15 \times 4 = 60$
Herb Stratum
1. Mesembryanthemum nodiflorum 15 Yes FACU Column Totals: 15 (A) 60 (B)
2.
3 Prevalence Index = B/A = 4.0
A Hydrophytic Vegetation Indicators:
5. Dominance Test is >50%
5.
0 Morphological Adaptations ¹ (Provide supporting
data in Remarks or on a separate sheet)
8 Problematic Hydrophytic Vegetation ¹ (Explain)
Total Cover: 15%
¹ Indicators of hydric soil and wetland hydrology must
be present.
2
Total Cover: Hydrophytic
% Bare Ground in Herb Stratum 85% % Cover of Biotic Crust Present? Yes No
Remarks:
No hydrophytic vegetation present

Depth	Matrix									
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Rem	arks	
0-12	7.5YR 3/2							S	andy clay lo	am
					<u> </u>					
Type: C=0	Concentration, D=Depl	etion, RM	Reduced Matrix.	² Location	: PL=Por	e Lining, R	C=Root Channel, M	=Matrix.		
lydric Soi	I Indicators: (Application)	able to all	LRRs, unless othe	erwise note	ed.)		Indicators for P	oblematic H	ydric Soils ³ :	
Histos	ol (A1)		Sandy Red	Sandy Redox (S5)			1 cm Muck (A9) (LRR C)			
Histic E	Epipedon (A2)		Stripped Matrix (S6)				2 cm Muck (A10) (LRR B)			
Black I	Histic (A3)		Loamy Mucky Mineral (F1)				Reduced Vertic (F18)			
Hydrod	gen Sulfide (A4)		Loamy Gleyed Matrix (F2)				Red Parent Material (TF2)			
Stratifie	ed Lavers (A5) (LRR C	:)	Depleted Matrix (F3)				Other (Expla	in in Remarks)	
1 cm M	/uck (A9) (LRR D)	,	Redox Dark Surface (F6)						,	
 Deplet	ed Below Dark Surface	(A11)	Depleted F)ark Surfac	e (F7)					
Doplet Thick [Dark Surface (A12)	,,,,,,	Bedox Der	pressions (F	=8)					
Sandy	Mucky Mineral (S1)		Vernal Pools (F9)				³ Indicators of hydrophytic vegetation and			
Sandy	Gleved Matrix (S4)						wetland hydrology must be present			
Restrictive	E Laver (if present):						wettand flydre	logy must be	present.	
Type:										
Depth (inches):							Hydric Soil Prese	ent? Yes _	No	>
Remarks:										
		1	4							
o mottles	present. Hydric sol	is not pre	sent.							

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

City/County: Imperial Beach/San Diego Sampling Date: 7/1/08
State: CA Sampling Point: DP49/PP49
Section, Township, Range: S20; T18S; R2W
_ Local relief (concave, convex, none): <u>none</u> Slope (%): <u>0%</u>
99289.64822 Long: 1794644.21020 Datum: NAD83
NWI classification:
y disturbed? Are "Normal Circumstances" present? Yes X No (If needed, explain any answers in Remarks.) g sampling point locations, transects, important features, etc
Is the Sampled Area within a Wetland? Yes <u>X</u> No

	Absolute	Dominant	Indicator	Dominance Test worksheet:
<u>Tree Stratum</u> (Use scientific names.) 1	<u>% Cover</u>	Species?	Status	Number of Dominant Species That Are OBL, FACW, or FAC:0 (A)
2	. <u> </u>			Total Number of Dominant
3				Species Across All Strata: 1 (B)
4				Percent of Dominant Species
Total Cover:				That Are OBL, FACW, or FAC:0 (A/B)
Sapling/Shrub Stratum				Development by development of the
1. <u>-</u>	. <u> </u>			Prevalence index worksneet:
2				I otal % Cover of: Multiply by:
3				OBL species x 1 =
4				FACW species x 2 =
5				FAC species x 3 =
Total Cover:				FACU species x 4 =
Herb Stratum Mosombryanthomum padiflarum	50	Voc	EACU	UPL species x 5 =
		165	FACU	Column Totals: (A) (B)
2	<u> </u>			
3				Prevalence Index = B/A =
4				Hydrophytic Vegetation Indicators:
5				Dominance Test is >50%
6				Prevalence Index is ≤3.0 ¹
7				Morphological Adaptations ¹ (Provide supporting
8				Drohlomatic Hydrophytic Vagetation ¹ (Evplain)
Woody Vine Stratum	50%			
1 -				¹ Indicators of hydric soil and wetland hydrology must
2				be present.
Z				Hydrophytic
50%				Vegetation
% Bare Ground in Herb Stratum % Cover	of Biotic Ci	rust		Present? Yes No <u>^</u>
Remarks:				
No hydrophytic vegetation present.				
· · · · · · · · · · · · · · · · · · ·				

Profile Des	cription: (Describe	to the depth	n needed to docu	ment the indic	ator or o	confirm	n the absence of ir	ndicators.)	
Depth (inches)	<u>Matrix</u>	0/	Redo	x Features		a a ²	Touture	Domo	
<u>(inches)</u> 0-2	5Y 2.5/1			<u> </u>	<u>pe </u>	_00		Sa	andy clay
3-12	7.5YR 3/1							Sa	ndy clay
¹ Type: C=C	concentration, D=Depl	etion, RM=	Reduced Matrix.	² Location: PL	.=Pore Li	ining, R	C=Root Channel, N	M=Matrix.	
Hydric Soil	Indicators: (Applica	able to all L	RRS, unless othe	rwise noted.)			Indicators for I	(AQ) (I BB C)	dric Solls":
Histic F	ninedon (A2)		Sanuy Reu	0x(33)			2 cm Muck	(A3) (LKK C)	
Flock L	listic (A3)			allix (30) sky Minoral (E1)	`		2 CITI Muck	$(A10)(\mathbf{LKKB})$	
	nstic (A3))		Reduced v	enic (F 10)	
Hydroge	en Sullide (A4)	•	Loamy Gle	yed Matrix (F2)				i Material (TF2)	
Stratifie	d Layers (A5) (LRR C)		latrix (F3)			Other (Exp	iain in Remarks)	
1 cm M	uck (A9) (LRR D)		Redox Dark	< Surface (F6)					
Deplete	ed Below Dark Surface	e (A11)	Depleted D	ark Surface (F7	7)				
Thick D	ark Surface (A12)		Redox Dep	ressions (F8)			2		
Sandy I	Mucky Mineral (S1)		Vernal Poo	ls (F9)			³ Indicators of hy	/drophytic veget	ation and
Sandy (Gleyed Matrix (S4)						wetland hyd	rology must be p	present.
Restrictive	Layer (if present):								
Type:									\sim
Depth (in	iches):						Hydric Soil Pres	sent? Yes	<u>^</u> No
Remarks:									
lydric soils	present.								
IYDROLO)GY								

Wetland Hydrology Indicators:	Secondary Indicators (2 or more required)
Primary Indicators (any one indicator is sufficient)	Water Marks (B1) (Riverine)
Surface Water (A1) Salt Crust (B11)	Sediment Deposits (B2) (Riverine)
High Water Table (A2) Biotic Crust (B12)	Drift Deposits (B3) (Riverine)
Saturation (A3) Aquatic Invertebrates (B13)	Drainage Patterns (B10)
Water Marks (B1) (Nonriverine) Hydrogen Sulfide Odor (C1)	Dry-Season Water Table (C2)
Sediment Deposits (B2) (Nonriverine) Oxidized Rhizospheres along Livir	ng Roots (C3) Thin Muck Surface (C7)
Drift Deposits (B3) (Nonriverine) Presence of Reduced Iron (C4)	Crayfish Burrows (C8)
Surface Soil Cracks (B6) Recent Iron Reduction in Plowed	Soils (C6) Saturation Visible on Aerial Imagery (C9)
\underline{X} Inundation Visible on Aerial Imagery (B7) \underline{X} Other (Explain in Remarks)	Shallow Aquitard (D3)
Water-Stained Leaves (B9)	FAC-Neutral Test (D5)
Field Observations:	
Surface Water Present? Yes No Depth (inches):	
Water Table Present? Yes No Depth (inches):	
Saturation Present? Yes No Depth (inches): (includes capillary fringe)	Wetland Hydrology Present? Yes <u>×</u> No
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspec	tions), if available:
Remarks:	
Hydrologic indicators present. 2005 Aerial Imagery and rainfall data.	

Project/Site: Pond 20	City/County: Imperial Beach/San Diego Sampling Date: 7/1/08							
Applicant/Owner: Port of San Diego	State: CA Sampling Point: DP50/P	P50						
Investigator(s): Rebecca Erickson/Brad Kelly	Section, Township, Range: S20; T18S; R2W							
Landform (hillslope, terrace, etc.): flat upland	Local relief (concave, convex, none): <u>none</u> Slope (%): <u>C</u>)%						
Subregion (LRR): C L	at: <u>6299234.93214 Long:</u> <u>1794547.11843 Datum:</u> <u>NAD</u>	83						
Soil Map Unit Name: Drainage/perennial	NWI classification:							
Are climatic / hydrologic conditions on the site typical for this tim	e of year? Yes <u>X</u> No (If no, explain in Remarks.)							
Are Vegetation <u>No</u> , Soil <u>No</u> , or Hydrology <u>No</u> signi	icantly disturbed? Are "Normal Circumstances" present? Yes <u>X</u> No							
Are Vegetation <u>No</u> , Soil <u>No</u> , or Hydrology <u>No</u> natur	ally problematic? (If needed, explain any answers in Remarks.)							
SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.								
Hydrophytic Vegetation Present? Yes No	X Is the Sampled Area							

Hydrophylic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present?	Yes Yes	No X No X No X	Is the Sampled Area within a Wetland?	Yes	No
Remarks:					
Non-jurisdictional.					

	Absolute	Dominant	Indicator	Dominance Test worksheet:
Tree Stratum (Use scientific names.)	<u>% Cover</u>	Species?	Status	Number of Dominant Species
1				That Are OBL, FACW, or FAC: 0 (A)
2				Total Number of Dominant
3				Species Across All Strata: 1 (B)
4.				
Total Cover:				Percent of Dominant Species
Sapling/Shrub Stratum				
1				Prevalence Index worksheet:
2.				Total % Cover of: Multiply by:
3				OBL species x 1 =
4				FACW species x 2 =
4				$\frac{1}{10000000000000000000000000000000000$
D				FACt species $60 \times 4 = 240$
Lotal Cover:				FACU species 320 $x = 25$
▲ Mesembryanthemum nodiflorum	60	Yes	FACU	UPL species $35 \times 5 = 20$
Bassia hyssopifolia	30	No	FAC	Column Totals: (A) (B)
Atriplex prostrata		No	NO	Prevalence Index = B/A = 5.84
3. 7 ((1)) (0) (1) (1)				
4			·	Business Teching 50%
5			·	Dominance Test is >50%
6				Prevalence Index is ≤3.0
7				Morphological Adaptations ¹ (Provide supporting
8				data in Remarks or on a separate sneet)
Total Cover:	95%			Problematic Hydrophytic Vegetation (Explain)
Woody Vine Stratum				
1				¹ Indicators of hydric soil and wetland hydrology must
2				be present.
Total Cover:	·			Hydrophytic Vegetation
% Bare Ground in Herb Stratum <u>5%</u> % Cover	of Biotic C	rust		Present? Yes <u>No X</u>
Remarks:				
Hydrophytic vegetation not dominant				
riyaropriyao vegetatori not dominant.				

	INIAUIX		Read	ox ⊢eature	S						
iches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Rema	rks		
12	2.5YR 3/3							Sa	ndy clay		
/pe: C=C	oncentration, D=Depl	etion, RM=	Reduced Matrix.	² Location	: PL=Por	e Lining, R	RC=Root Channel, M=	Matrix.			
dric Soil	Indicators: (Applica	ble to all	LRRs, unless othe	rwise not	ed.)		Indicators for Pro	blematic Hy	dric Soils ³ :		
Histosol	l (A1)		Sandy Red	ox (S5)			1 cm Muck (A	9) (LRR C)			
Histic E	pipedon (A2)		Stripped M	Stripped Matrix (S6)			2 cm Muck (A10) (LRR B)				
Black Hi	istic (A3)		Loamv Mu	ckv Minera	l (F1)		Reduced Vertic (F18)				
Hvdroae	en Sulfide (A4)		Loamv Gle	Loamy Gleyed Matrix (F2)				Red Parent Material (TF2) Other (Explain in Remarks)			
Stratifie	d Lavers (A5) (I RR C	:)	Depleted M								
1 cm Mi		/	Bedox Dar	k Surface ((F6)						
Donloto	d Below Dark Surface	(A11)	Depleted C	ark Surfac	(F7)						
Thick D	ark Surface (A12)	, (,,,,)	Depicted E								
Sandy A	Aucky Minoral (S1)		Neuox Dep	le (E0)	10)		³ Indicators of hydr	ophytic vogot	tion and		
Sanuyi	Cloved Metrix (S1)			Vernai Pools (F9)				indicators of hydrophytic vegetation and			
Sanuy C	Jeyeu Matrix (34)							bgy must be p	leseni.		
	Layer (il present).										
Type:											
Depth (in	ches):						Hydric Soil Preser	nt? Yes	No		
marks:							•				

Wetland Hydrology Indicator	rs:				Secondary Indicators (2 or more required)
Primary Indicators (any one inc	dicator is s	ufficient)			Water Marks (B1) (Riverine)
Surface Water (A1)		_	Salt Crust (B11)		Sediment Deposits (B2) (Riverine)
High Water Table (A2)		_	Biotic Crust (B12)		Drift Deposits (B3) (Riverine)
Saturation (A3)		_	_ Aquatic Invertebrates (B13)		Drainage Patterns (B10)
Water Marks (B1) (Nonriv	erine)	_	_ Hydrogen Sulfide Odor (C1)		Dry-Season Water Table (C2)
Sediment Deposits (B2) (N	lonriverin	e) _	_ Oxidized Rhizospheres along Livi	ing Roots (C3)	Thin Muck Surface (C7)
Drift Deposits (B3) (Nonriv	verine)	_	Presence of Reduced Iron (C4)		Crayfish Burrows (C8)
Surface Soil Cracks (B6)		_	Recent Iron Reduction in Plowed	Soils (C6)	Saturation Visible on Aerial Imagery (C9)
Inundation Visible on Aeria	al Imagery	(B7)	Other (Explain in Remarks)		Shallow Aquitard (D3)
Water-Stained Leaves (B9))				FAC-Neutral Test (D5)
Field Observations:					
Surface Water Present?	Yes	No	Depth (inches):		
Water Table Present?	Yes	No	Depth (inches):		
Saturation Present? (includes capillary fringe)	Yes	No	Depth (inches):	Wetland Hyd	Irology Present? Yes NoX
Describe Recorded Data (strea	am gauge,	monitoring	g well, aerial photos, previous inspec	ctions), if availa	ble:
Remarks:					
Hydrology not present.					

Project/Site: Pond 20	City/County: Imperial I	Beach/San Diego	Sampling Date: 7/1/08
Applicant/Owner: Port of San Diego		State: CA	Sampling Point: DP51/PP51
Investigator(s): Rebecca Erickson/Brad Kelly	_ Section, Township, Rai	nge: <u>S20; T18S; R2W</u>	
Landform (hillslope, terrace, etc.): flat upland	_ Local relief (concave, o	convex, none): <u>none</u>	Slope (%): 0%
Subregion (LRR): C Lat: 62	298931.18573	Long: 1794850.4813	5 Datum: NAD83
Soil Map Unit Name: Drainage/perennial		NWI classific	cation:
Are climatic / hydrologic conditions on the site typical for this time of y Are Vegetation <u>No</u> , Soil <u>No</u> , or Hydrology <u>No</u> significantl Are Vegetation <u>No</u> , Soil <u>No</u> , or Hydrology <u>No</u> naturally p SUMMARY OF FINDINGS – Attach site map showin	rear? Yes <u>X</u> No vo voi Ves X No voi Ves X N	(If no, explain in F Normal Circumstances" eded, explain any answe cocations, transects	lemarks.) present? Yes <u>X</u> No ers in Remarks.) s, important features, etc.
Hydrophytic Vegetation Present? Yes No Hydric Soil Present? Yes No Wetland Hydrology Present? Yes No Remarks: Yes No	- Is the Sampled - within a Wetlar -	Area Id? Yes	<u>× No</u>
ACOE/CCC jurisdictional. See hydrology notes.			

	Absolute	Dominant	Indicator	Dominance Test worksheet:
Tree Stratum (Use scientific names.)	<u>% Cover</u>	Species?	Status	Number of Dominant Species
1				That Are OBL, FACW, or FAC: (A)
2				Total Number of Dominant
3				Species Across All Strata: (B)
4				Development Operation
Total Cover:				That Are OBL_EACW or EAC ² (A/B)
Sapling/Shrub Stratum				
1				Prevalence Index worksheet:
2				Total % Cover of:Multiply by:
3				OBL species x 1 =
4.				FACW species x 2 =
5				FAC species x 3 =
Total Cover			·	FACU species x 4 =
Herb Stratum				UPL species x 5 =
_{1.} Mesembryanthemum nodiflorum	90	Yes	FACU	Column Totals: (A) (B)
2.				
3.				Prevalence Index = B/A =
4.				Hydrophytic Vegetation Indicators:
5				Dominance Test is >50%
6				Prevalence Index is $\leq 3.0^{1}$
7				Morphological Adaptations ¹ (Provide supporting
۰ ۵			·	data in Remarks or on a separate sheet)
0	90%	<u> </u>	·	Problematic Hydrophytic Vegetation ¹ (Explain)
Woody Vine Stratum				
1 -				¹ Indicators of hydric soil and wetland hydrology must
2				be present.
Z				Hydrophytic
10%				Vegetation
% Bare Ground in Herb Stratum 10% % Cover	of Biotic C	rust		Present? Yes No X
Remarks:				
No hydrophytic vegetation present				
no nydropnytie vegetation present.				

Profile Descr	iption: (Describe to	o the depth	needed to docur	ment the i	ndicator	or confirm	the absence of in	dicators.)	
Depth	Matrix		Redo	x Features	6				
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Rema	arks
0-12	7.5YR 3/1							Si	lty clay
·									
·							·		
				<u> </u>					
	ncentration D-Denk	tion RM-E	educed Matrix			e Lining R	C-Root Channel M	-Matrix	
Hydric Soil Ir	dicators: (Applica	ble to all L	Rs. unless othe	rwise note	. 1 L-1 01 ad.)	e Linnig, ix	Indicators for P	roblematic Hy	dric Soils ³ :
Histosol ((A1)		Sandy Red	ov (S5)	July		1 cm Muck (
Histic Eni	$(\Delta 2)$		Stripped Matrix (S6)				2 cm Muck (A10) (I RR B)		
Black His	tic (A3)		Loamy Mucky Mineral (E1)				Reduced Vertic (F18)		
<u> </u>	n Sulfide (A4)		Loamy Gleved Matrix (F2)			Red Parent Material (TF2)			
Stratified	Lavers (A5) (LRR C)	× Depleted Matrix (F3)			Other (Explain in Remarks)			
1 cm Muc	ck (A9) (LRR D)	,	Redox Dark	(Surface (F6)				, ,
Depleted	Below Dark Surface	(A11)	Depleted D	ark Surfac	e (F7)				
Thick Da	rk Surface (A12)		Redox Dep	ressions (F	-8)				
Sandy M	ucky Mineral (S1)		Vernal Poo	ls (F9)			³ Indicators of hyd	drophytic veget	ation and
Sandy GI	eyed Matrix (S4)						wetland hydro	ology must be p	present.
Restrictive L	ayer (if present):								
Туре:									
Depth (inc	hes):						Hydric Soil Pres	ent? Yes	× _{No}
Remarks:									
Uvdria apila n	raaant								
nyune sons p	ilesent.								
HYDROLOG	9Y								
Wetland Hvd	rology Indicators						Secondary	Indicators (2 or	more required)

Wetland Hydrology Indicators:		Secondary Indicators (2 or more required)
Primary Indicators (any one indicator is sufficie	nt)	Water Marks (B1) (Riverine)
Surface Water (A1)	Salt Crust (B11)	Sediment Deposits (B2) (Riverine)
High Water Table (A2)	Biotic Crust (B12)	Drift Deposits (B3) (Riverine)
Saturation (A3)	Aquatic Invertebrates (B13)	Drainage Patterns (B10)
Water Marks (B1) (Nonriverine)	Hydrogen Sulfide Odor (C1)	Dry-Season Water Table (C2)
Sediment Deposits (B2) (Nonriverine)	Oxidized Rhizospheres along Livin	g Roots (C3) Thin Muck Surface (C7)
Drift Deposits (B3) (Nonriverine)	Presence of Reduced Iron (C4)	Crayfish Burrows (C8)
Surface Soil Cracks (B6)	Recent Iron Reduction in Plowed S	Soils (C6) Saturation Visible on Aerial Imagery (C9)
\underline{X} Inundation Visible on Aerial Imagery (B7)	$\underline{\times}$ Other (Explain in Remarks)	Shallow Aquitard (D3)
Water-Stained Leaves (B9)		FAC-Neutral Test (D5)
Field Observations:		
Surface Water Present? Yes No	Depth (inches):	
Water Table Present? Yes No	Depth (inches):	
Saturation Present? Yes No (includes capillary fringe)	Depth (inches):	Wetland Hydrology Present? Yes <u>×</u> No
Describe Recorded Data (stream gauge, monit	oring well, aerial photos, previous inspecti	ions), if available:
Remarks:		
Hydrologic indicators present. 2004 Aerial	Imagery and rainfall data.	

Project/Site: Pond 20	City/0	_{County:} Imperial B	each/San Diego	Sampling Date: 7/1/08
Applicant/Owner: Port of San Diego			State: CA	Sampling Point: DP52/PP52
Investigator(s): Rebecca Erickson/Brad Kelly	Secti	on, Township, Ran	_{ge:} <u>S20; T18S; R2W</u>	
Landform (hillslope, terrace, etc.): flat upland	Loca	al relief (concave, c	onvex, none): <u>none</u>	Slope (%): <u>0%</u>
Subregion (LRR): C	Lat: <u>6298890</u>).97020	Long: 1794814.5551	δ Datum: NAD83
Soil Map Unit Name: Drainage/perennial			NWI classifie	cation:
Are climatic / hydrologic conditions on the site typical for	this time of year?	res X No	(If no, explain in F	Remarks.)
Are Vegetation <u>No</u> , Soil <u>No</u> , or Hydrology <u>No</u>	significantly distu	rbed? Are "N	Normal Circumstances"	present? Yes <u>X</u> No
Are Vegetation <u>No</u> , Soil <u>No</u> , or Hydrology <u>No</u>	naturally problem	atic? (If nee	eded, explain any answe	ers in Remarks.)
SUMMARY OF FINDINGS – Attach site ma	ap showing sar	npling point lo	cations, transects	s, important features, etc.
Hydrophytic Vegetation Present? Yes	_{No} ×	lo the Compled	A	
Hydric Soil Present? Yes	No X	within a Wetland	Area d? Vos	No X
Wetland Hydrology Present? Yes X	No	within a wetland	103	
Remarks:				
Non-jurisdictional. See hydrology notes.				

	Absolute	Dominant	Indicator	Dominance Test worksheet:	
<u>Tree Stratum</u> (Use scientific names.) 1. [_]	% Cover	Species?	Status	Number of Dominant Species That Are OBL, FACW, or FAC:0 (A	۹)
23.				Total Number of Dominant Species Across All Strata: 1 (E	B)
4.					,
Total Cover:				Percent of Dominant Species	۵/R)
Sapling/Shrub Stratum					(8)
1				Prevalence Index worksheet:	
2				Total % Cover of: Multiply by:	
3				OBL species x 1 =	
4				FACW species x 2 =	
5				FAC species $5 \times 3 = 15$	
Total Cover:				FACU species X 4 = 300	
Herb Stratum				UPL species x 5 =	
1. Mesembryanthemum nodiflorum	75	Yes	FACU	Column Totals: 80 (A) 315	(B)
2. Bassia hyssopifolia	5	No	FAC		()
3				Prevalence Index = B/A =3.9	
4.				Hydrophytic Vegetation Indicators:	
5.				Dominance Test is >50%	
6			·	Prevalence Index is ≤3.0 ¹	
7				Morphological Adaptations ¹ (Provide supporting	a
8				data in Remarks or on a separate sheet)	0
o	80%			Problematic Hydrophytic Vegetation ¹ (Explain)	
Woody Vine Stratum					
1				¹ Indicators of hydric soil and wetland hydrology mus	st
2	. <u> </u>			be present.	
Total Cover:				Hydrophytic Vegetation	
% Bare Ground in Herb Stratum 20% % Cover	of Biotic C	rust		Present? Yes No X	
Remarks:				1	
I kudua a kutia kua watatia a watata wata					
mydrophytic vegetation not dominant.					

Depth	Matrix		Redo	ox Features	S	Redox Features				
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Rema	irks	
0-12	7.5YR 4/2						Silty clay loa			1
		<u> </u>								
		<u> </u>								
		·								
		·								
1				2						
Type: C=0	Concentration, D=Depl	etion, RM=	Reduced Matrix.	Location	: PL=Por	e Lining, R	C=Root Channel, M	=Matrix.		
Aydric Soi	I Indicators: (Applica	able to all I	RRS, unless othe	rwise not	ed.)		Indicators for P	roblematic Hy	dric Solls":	
Histoso	ol (A1)		Sandy Redox (S5)				1 cm Muck (A9) (LRR C)		
Histic E	Epipedon (A2)		Stripped M	Stripped Matrix (S6)			2 cm Muck (A10) (LRR B)			
Black H	Histic (A3)		Loamy Mu	Loamy Mucky Mineral (F1)			Reduced Vertic (F18)			
Hydrog	gen Sulfide (A4)		Loamy Gle	Loamy Gleyed Matrix (F2)			Red Parent Material (TF2)			
<u>Stratifie</u>	ed Layers (A5) (LRR C	;)	Depleted M	Depleted Matrix (F3)			Other (Explain in Remarks)			
1 cm M	/luck (A9) (LRR D)		Redox Dar	k Surface (F6)					
Deplet	ed Below Dark Surface	e (A11)	Depleted D	ark Surfac	e (F7)					
Thick E	Dark Surface (A12)	· · /	Redox Dep	ressions (I	F8)					
Sandv	Mucky Mineral (S1)		Vernal Poo	ls (F9)	,		³ Indicators of hydrophytic vegetation a			
Sandy	Gleved Matrix (S4)			- (-)			wetland hydrology must be present.			
Restrictive	E Layer (if present):							0, 1		
Type:										
Depth (i	nches):						Hydric Soil Pres	ent? Yes	No	
Remarks:										
1 441	www.ac.edu I.I. alu: "		4							
	nracant Hydric coll	is not pres	sent.							

Wetland Hydrology Indicators:		Secondary Indicators (2 or more required)
Primary Indicators (any one indicator is sufficier	nt)	Water Marks (B1) (Riverine)
Surface Water (A1)	X Salt Crust (B11)	Sediment Deposits (B2) (Riverine)
High Water Table (A2)	Biotic Crust (B12)	Drift Deposits (B3) (Riverine)
Saturation (A3)	Aquatic Invertebrates (B13)	Drainage Patterns (B10)
Water Marks (B1) (Nonriverine)	Hydrogen Sulfide Odor (C1)	Dry-Season Water Table (C2)
Sediment Deposits (B2) (Nonriverine)	Oxidized Rhizospheres along Living	g Roots (C3) Thin Muck Surface (C7)
Drift Deposits (B3) (Nonriverine)	Presence of Reduced Iron (C4)	Crayfish Burrows (C8)
Surface Soil Cracks (B6)	oils (C6) Saturation Visible on Aerial Imagery (C9)	
Inundation Visible on Aerial Imagery (B7)	Other (Explain in Remarks)	Shallow Aquitard (D3)
Water-Stained Leaves (B9)		FAC-Neutral Test (D5)
Field Observations:		
Surface Water Present? Yes No	Depth (inches):	
Water Table Present? Yes No	Depth (inches):	
Saturation Present? Yes <u>No</u> (includes capillary fringe)	Depth (inches):	Wetland Hydrology Present? Yes <u>×</u> No
Describe Recorded Data (stream gauge, monito	oring well, aerial photos, previous inspecti	ons), if available:
Remarks:		
Salt crust only hydrologic indicator; caused	by high-evaporation levels of soil from	m historic inundation only. Not current indicator.

Project/Site: Pond 20	C	City/County: Imperia	al Beach/San Diego	Sampling	Date: 7/1/08	
Applicant/Owner: Port of San Diego			State: CA	Sampling	Point: DP53/PP53	
Investigator(s): Rebecca Erickson/Brad Kelly	s	Section, Township, F	_{Range:} <u>S20;</u> T18S; R2	W		
Landform (hillslope, terrace, etc.): flat upland	l	Local relief (concave	e, convex, none): none		Slope (%): 0%	
Subregion (LRR): C	Lat: 6299	045.52106	Long: 1794925.37	121	Datum: NAD83	
Soil Map Unit Name: Drainage/perennial			NWI clas	sification:		
Are Vegetation No_, Soil No_, or Hydrology No_significantly disturbed? Are "Normal Circumstances" present? Yes X No_ Are Vegetation No_, Soil No_, or Hydrology No_naturally problematic? (If needed, explain any answers in Remarks.) SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.						
Hydrophytic Vegetation Present? Yes No Hydric Soil Present? Yes No Wetland Hydrology Present? Yes No	× ×	Is the Sampl within a Wet	ed Area land? Yes _	No _	<u>×</u>	
Remarks:						
Non-jurisdictional. See hydrology notes.						

	Absolute	Dominant	Indicator	Dominance Test worksheet:	
<u>Tree Stratum</u> (Use scientific names.) 1. <u>-</u>	% Cover	Species?	Status	Number of Dominant Species That Are OBL, FACW, or FAC: (A	A)
2 3				Total Number of Dominant Species Across All Strata: (B	3)
4 Total Cover: Sapling/Shrub Stratum				Percent of Dominant Species That Are OBL, FACW, or FAC: (A	√В)
1				Prevalence Index worksheet:	
2.				Total % Cover of: Multiply by:	
3				OBL species x 1 =	
۰ ۸				FACW species x 2 =	
T			·	FAC species x 3 =	
J				FACIL species x 4 =	
Herb Stratum				UPL species x 5 =	
1					(B)
2.					(5)
3.				Prevalence Index = B/A =	
4.				Hydrophytic Vegetation Indicators:	
5.				Dominance Test is >50%	
6.				Prevalence Index is ≤3.0 ¹	
7.				Morphological Adaptations ¹ (Provide supporting	g
8			·	data in Remarks or on a separate sheet)	
Total Cover:				Problematic Hydrophytic Vegetation ¹ (Explain)	
Woody Vine Stratum					
1				¹ Indicators of hydric soil and wetland hydrology mus	st
2				be present.	
Total Cover:				Hydrophytic Vegetation	
% Bare Ground in Herb Stratum % Cover	of Biotic C	rust		Present? Yes No X	
Remarks:					
no vegetation present.					

Depth Matrix Redox Feature (inches) Color (moist) % Color (moist) % 0-4 7.5YR 4/3	tures Remarks 6 Type ¹ Loc ² Texture Remarks Silty clay loam
(inches) Color (moist) % Color (moist) % 0-4 7.5YR 4/3	6 Type' Loc' Texture Remarks Silty clay loam Silty clay loam
0-4 7.5YR 4/3	Silty clay loam Silty clay loam
Image:	ation: PL=Pore Lining, RC=Root Channel, M=Matrix. noted.) Indicators for Problematic Hydric Soils ³ :
1 Type: C=Concentration, D=Depletion, RM=Reduced Matrix. 2Local Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise r	ation: PL=Pore Lining, RC=Root Channel, M=Matrix. noted.) Indicators for Problematic Hydric Soils ³ : 1 cm Muck (A9) (LBP C)
¹ Type: C=Concentration, D=Depletion, RM=Reduced Matrix. ² Locat Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise r	ation: PL=Pore Lining, RC=Root Channel, M=Matrix. noted.) Indicators for Problematic Hydric Soils ³ : 1 cm Muck (A9) (LBP C)
¹ Type: C=Concentration, D=Depletion, RM=Reduced Matrix. ² Local Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise r	ation: PL=Pore Lining, RC=Root Channel, M=Matrix. noted.) Indicators for Problematic Hydric Soils ³ :
¹ Type: C=Concentration, D=Depletion, RM=Reduced Matrix. ² Locat Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise r Histosol (A1) Sandy Redox (S5) Histic Epipedon (A2) Stripped Matrix (St Black Histic (A3) Loamy Mucky Min- Hydrogen Sulfide (A4) Depleted Matrix (F 1 cm Muck (A9) (LRR D) Redox Dark Surface Depleted Below Dark Surface (A11) Depleted Dark Surface Thick Dark Surface (A12) Redox Depression Sandy Mucky Mineral (S1) Vernal Pools (F9) Sandy Gleved Matrix (S4) Stratified Loalers (S4)	ation: PL=Pore Lining, RC=Root Channel, M=Matrix. noted.) Indicators for Problematic Hydric Soils ³ :
¹ Type: C=Concentration, D=Depletion, RM=Reduced Matrix. ² Locat Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise r	ation: PL=Pore Lining, RC=Root Channel, M=Matrix. noted.) Indicators for Problematic Hydric Soils ³ :
¹ Type: C=Concentration, D=Depletion, RM=Reduced Matrix. ² Locat Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise r Histosol (A1)	ation: PL=Pore Lining, RC=Root Channel, M=Matrix. noted.) Indicators for Problematic Hydric Soils ³ :
¹ Type: C=Concentration, D=Depletion, RM=Reduced Matrix. ² Local Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise r	ation: PL=Pore Lining, RC=Root Channel, M=Matrix. noted.) Indicators for Problematic Hydric Soils ³ :
¹ Type: C=Concentration, D=Depletion, RM=Reduced Matrix. ² Locat Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise r	ation: PL=Pore Lining, RC=Root Channel, M=Matrix. noted.) Indicators for Problematic Hydric Soils ³ :
¹ Type: C=Concentration, D=Depletion, RM=Reduced Matrix. ² Locat Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise r	ation: PL=Pore Lining, RC=Root Channel, M=Matrix. noted.) Indicators for Problematic Hydric Soils ³ :
¹ Type: C=Concentration, D=Depletion, RM=Reduced Matrix. ² Locat Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise r	ation: PL=Pore Lining, RC=Root Channel, M=Matrix. noted.) Indicators for Problematic Hydric Soils ³ :
Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise r Histosol (A1) Sandy Redox (S5) Histic Epipedon (A2) Stripped Matrix (St Black Histic (A3) Loamy Mucky Mini- Hydrogen Sulfide (A4) Loamy Gleyed Ma Stratified Layers (A5) (LRR C) Depleted Matrix (F 1 cm Muck (A9) (LRR D) Redox Dark Surface Depleted Below Dark Surface (A11) Depleted Dark Surface Thick Dark Surface (A12) Redox Depression Sandy Mucky Mineral (S1) Vernal Pools (F9) Sandy Gleyed Matrix (S4) Sandy Seleved Matrix (S4)	noted.) Indicators for Problematic Hydric Soils ³ :
Histosol (A1) Sandy Redox (S5) Histic Epipedon (A2) Stripped Matrix (St) Black Histic (A3) Loamy Mucky Minit Hydrogen Sulfide (A4) Loamy Gleyed Matrix (F Stratified Layers (A5) (LRR C) Depleted Matrix (F 1 cm Muck (A9) (LRR D) Redox Dark Surface Depleted Below Dark Surface (A11) Depleted Dark Surface Thick Dark Surface (A12) Redox Depression Sandy Mucky Mineral (S1) Vernal Pools (F9) Sandy Gleyed Matrix (S4) Sandy Stripped Matrix (S4)	1 cm Muck (AQ) (I PP C)
Histic Epipedon (A2) Stripped Matrix (St Black Histic (A3) Loamy Mucky Min Hydrogen Sulfide (A4) Loamy Gleyed Ma Stratified Layers (A5) (LRR C) Depleted Matrix (F 1 cm Muck (A9) (LRR D) Redox Dark Surface Depleted Below Dark Surface (A11) Depleted Dark Surface Thick Dark Surface (A12) Redox Depression Sandy Mucky Mineral (S1) Vernal Pools (F9)	
Black Histic (A3) Loamy Mucky Min. Hydrogen Sulfide (A4) Loamy Gleyed Ma Stratified Layers (A5) (LRR C) Depleted Matrix (F 1 cm Muck (A9) (LRR D) Redox Dark Surface Depleted Below Dark Surface (A11) Depleted Dark Surface Thick Dark Surface (A12) Redox Depression Sandy Mucky Mineral (S1) Vernal Pools (F9) Sandy Gleyed Matrix (S4) Sandy Mucky Mineral (S1)	S6) 2 cm Muck (A10) (LRR B)
Hydrogen Sulfide (A4) Loamy Gleyed Ma Stratified Layers (A5) (LRR C) Depleted Matrix (F 1 cm Muck (A9) (LRR D) Redox Dark Surface Depleted Below Dark Surface (A11) Depleted Dark Surface Thick Dark Surface (A12) Redox Depression Sandy Mucky Mineral (S1) Vernal Pools (F9) Sandy Gleyed Matrix (S4) Sandy Stripped	neral (F1) Reduced Vertic (F18)
Stratified Layers (A5) (LRR C) Depleted Matrix (F 1 cm Muck (A9) (LRR D) Redox Dark Surface Depleted Below Dark Surface (A11) Depleted Dark Surface Thick Dark Surface (A12) Redox Depression Sandy Mucky Mineral (S1) Vernal Pools (F9) Sandy Gleved Matrix (S4) Sandy State	atrix (F2) Red Parent Material (TF2)
1 cm Muck (A9) (LRR D) Redox Dark Surface Depleted Below Dark Surface (A11) Depleted Dark Sur Thick Dark Surface (A12) Redox Depression Sandy Mucky Mineral (S1) Vernal Pools (F9) Sandy Gleved Matrix (S4) Sandy State	F3) Other (Explain in Remarks)
 Depleted Below Dark Surface (A11) Depleted Dark Sur Thick Dark Surface (A12) Sandy Mucky Mineral (S1) Sandy Gleved Matrix (S4) 	ace (F6)
 Thick Dark Surface (A12) Sandy Mucky Mineral (S1) Sandy Gleved Matrix (S4) 	urface (F7)
Sandy Mucky Mineral (S1) Vernal Pools (F9)	ns (F8)
Sandy Gleved Matrix (S4)	³ Indicators of hydrophytic vegetation and
	wetland hydrology must be present.
Restrictive Layer (if present):	
Type:	
Parth (inches):	
	Ububic Call Dresent 2 Mars
Remarks:	Hydric Soil Present? Yes No

Wetland Hydrology Indicators:		Secondary Indicators (2 or more required)
Primary Indicators (any one indicator is sufficient	t)	Water Marks (B1) (Riverine)
Surface Water (A1)	X Salt Crust (B11)	Sediment Deposits (B2) (Riverine)
High Water Table (A2)	Biotic Crust (B12)	Drift Deposits (B3) (Riverine)
Saturation (A3)	Aquatic Invertebrates (B13)	Drainage Patterns (B10)
Water Marks (B1) (Nonriverine)	Hydrogen Sulfide Odor (C1)	Dry-Season Water Table (C2)
Sediment Deposits (B2) (Nonriverine)	Oxidized Rhizospheres along Livin	g Roots (C3) Thin Muck Surface (C7)
Drift Deposits (B3) (Nonriverine)	Presence of Reduced Iron (C4)	Crayfish Burrows (C8)
Surface Soil Cracks (B6)	Recent Iron Reduction in Plowed S	Soils (C6) Saturation Visible on Aerial Imagery (C9)
Inundation Visible on Aerial Imagery (B7)	Other (Explain in Remarks)	Shallow Aquitard (D3)
Water-Stained Leaves (B9)		FAC-Neutral Test (D5)
Field Observations:		
Surface Water Present? Yes No _	Depth (inches):	
Water Table Present? Yes No _	Depth (inches):	
Saturation Present? Yes <u>No</u> (includes capillary fringe)	Depth (inches):	Wetland Hydrology Present? Yes X No
Describe Recorded Data (stream gauge, monito	ring well, aerial photos, previous inspect	ions), if available:
Remarks:		
Salt crust only hydrologic indicator; caused	by high-evaporation levels of soil fro	m historic inundation only. Not current indicator.

Project/Site: Pond 20	City	/County: Imperial Beact	n/San Diego	_ Sampling Date: 7/1/08
Applicant/Owner: Port of San Diego	-	-	State: CA	_ Sampling Point: DP54/PP54
Investigator(s): Rebecca Erickson/Brad Kelly	Sec	tion, Township, Range: <u>S</u>	20; T18S; R2W	1
Landform (hillslope, terrace, etc.): flat upland	Loc	cal relief (concave, conve	x, none): <u>none</u>	Slope (%): <u>0%</u>
Subregion (LRR): C	Lat: 629893	31.18573 Long	_{g:} <u>1794850.4813</u>	B5 Datum: NAD83
Soil Map Unit Name: Drainage/perennial			NWI classif	ication:
Are climatic / hydrologic conditions on the site typical for f Are Vegetation <u>No</u> , Soil <u>No</u> , or Hydrology <u>No</u> Are Vegetation <u>No</u> , Soil <u>No</u> , or Hydrology <u>No</u> SUMMARY OF FINDINGS – Attach site ma	this time of year? _ significantly dist _ naturally problem p showing sa	Yes <u>X</u> No urbed? Are "Norm matic? (If needed, mpling point locati	(If no, explain in al Circumstances" explain any answ ons, transect	Remarks.) present? Yes <u>X</u> No vers in Remarks.) s, important features, etc.
Hydrophytic Vegetation Present? Yes Hydric Soil Present? Yes Wetland Hydrology Present? Yes	No X No X No	Is the Sampled Area within a Wetland?	Yes	No <u>X</u>
Remarks:				
Non-jurisdictional. See hydrology notes.				

	Absolute	Dominant	Indicator	Dominance Test worksheet:
<u>Tree Stratum</u> (Use scientific names.) 1	% Cover	Species?	Status	Number of Dominant Species That Are OBL, FACW, or FAC:0 (A)
2				Total Number of Dominant
3				Species Across All Strata: (B)
4				Percent of Dominant Species
Total Cover:	:			That Are OBL, FACW, or FAC: 0 (A/B)
Sapling/Shrub Stratum				
1			·	Prevalence Index worksheet:
2				Total % Cover of: Multiply by:
3				OBL species x 1 =
4				FACW species x 2 =
5				FAC species x 3 =
Total Cover:	:			FACU species x 4 =
Herb Stratum	00	Ň	FAOL	UPL species x 5 =
1. Mesembryanthemum nodiflorum	90	Yes	FACU	Column Totals: (A) (B)
2	·			
3				Prevalence Index = B/A =
4				Hydrophytic Vegetation Indicators:
5				Dominance Test is >50%
6.				Prevalence Index is ≤3.0 ¹
7.				Morphological Adaptations ¹ (Provide supporting
8				data in Remarks or on a separate sheet)
Total Cover	90%			Problematic Hydrophytic Vegetation ¹ (Explain)
Woody Vine Stratum	·			
1				¹ Indicators of hydric soil and wetland hydrology must
2.				be present.
Total Cover:	:			Hydrophytic Vegetation
% Bare Ground in Herb Stratum <u>10%</u> % Cover	of Biotic Cr	rust		Present? Yes <u>No X</u>
Remarks:				
No hydrophytic vegetation present.				

Depth	Matrix		Redox Features							
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Rema	rks	
)-6								Salt/sandy lo		
6-12	7.5YR 3/3						Silty clay			
						. <u> </u>				
		. <u></u>								
T 0.0			Deduced Metric	21						
Type: C=C Ivdric Soil	Indicators: (Application)	etion, RM	=Reduced Matrix.	Location	ed.)	e Lining, F	Indicators for F	1=Matrix. Problematic Hvo	dric Soils ³ :	
Histoso			Sandy Red	ox (S5)			1 cm Muck	(A9) (LRR C)		
Histic F	nipedon (A2)		Stripped M	atrix (S6)			2 cm Muck	(A10) (IRR B)		
Black H	listic (A3)		Loamy Mu	Loamy Mucky Mineral (E1)			Reduced Vertic (F18)			
Hydrog	en Sulfide (A4)		Loamy Gleved Matrix (F2)			Red Parent Material (TF2)				
Stratifie	ed Lavers (A5) (I RR C	:)	Depleted M	latrix (F3)	(• =)		Other (Explain in Remarks)			
1 cm M	uck (A9) (I RR D)	')	Bedox Dar	k Surface i	(F6)					
T on the Deplete	d Below Dark Surface	(A11)	Depleted D	ark Surfac	(F7)					
Dopieto Thick D	ark Surface (Δ12)	, (, (, 1))	Bedox Der	ressions (E8)					
Sandy I	Mucky Mineral (S1)		Vernal Poo	le (F9)	10)		³ Indicators of hydrophytic vegetation and			
Sandy Gleved Matrix (S1) Vernal Pools (F9)			wetland hydrology must be present							
Restrictive	Layer (if present):									
Type:										
Depth (in	nches):						Hydric Soil Pres	ent? Yes	No	

Wetland Hydrology Indicators:		Secondary Indicators (2 or more required)
Primary Indicators (any one indicator is sufficien	t)	Water Marks (B1) (Riverine)
Surface Water (A1)	X Salt Crust (B11)	Sediment Deposits (B2) (Riverine)
High Water Table (A2)	Biotic Crust (B12)	Drift Deposits (B3) (Riverine)
Saturation (A3)	Aquatic Invertebrates (B13)	Drainage Patterns (B10)
Water Marks (B1) (Nonriverine)	Hydrogen Sulfide Odor (C1)	Dry-Season Water Table (C2)
Sediment Deposits (B2) (Nonriverine)	Oxidized Rhizospheres along Livin	g Roots (C3) Thin Muck Surface (C7)
Drift Deposits (B3) (Nonriverine)	Presence of Reduced Iron (C4)	Crayfish Burrows (C8)
Surface Soil Cracks (B6)	Soils (C6) Saturation Visible on Aerial Imagery (C9)	
Inundation Visible on Aerial Imagery (B7)	Other (Explain in Remarks)	Shallow Aquitard (D3)
Water-Stained Leaves (B9)		FAC-Neutral Test (D5)
Field Observations:		
Surface Water Present? Yes No _	Depth (inches):	
Water Table Present? Yes No _	Depth (inches):	
Saturation Present? Yes <u>No</u> (includes capillary fringe)	Depth (inches):	Wetland Hydrology Present? Yes <u>×</u> No
Describe Recorded Data (stream gauge, monito	ring well, aerial photos, previous inspect	ions), if available:
Remarks:		
Salt crust only hydrologic indicator; caused	by high-evaporation levels of soil fro	m historic inundation only. Not current indicator.

Project/Site: Pond 20	City/County: Imperi	al Beach/San Diego	Sampling Date: 7/1/08
Applicant/Owner: Port of San Diego		State: CA	Sampling Point: DP55/PP55
Investigator(s): Rebecca Erickson/Brad Kelly	Section, Township,	Range: <u>S20;</u> T18S; R2W	
Landform (hillslope, terrace, etc.):	Local relief (concav	ve, convex, none): <u>none</u>	Slope (%): <u>0%</u>
Subregion (LRR): C L	_{_at:} 6298543.35967	Long: <u>1794553.86825</u>	Datum: NAD83
Soil Map Unit Name: Drainage/perennial		NWI classifica	ation:
Are climatic / hydrologic conditions on the site typical for this tin Are Vegetation <u>No</u> , Soil <u>No</u> , or Hydrology <u>No</u> signi Are Vegetation <u>No</u> , Soil <u>No</u> , or Hydrology <u>No</u> natu	ne of year? Yes X No ificantly disturbed? An rally problematic? (If	o (If no, explain in Re re "Normal Circumstances" pr f needed, explain any answer	emarks.) resent? Yes <u>X</u> No rs in Remarks.)
SUMMARY OF FINDINGS – Attach site map sho	owing sampling poin	t locations, transects,	, important features, etc.
Hydrophytic Vegetation Present? Yes No Hydric Soil Present? Yes X No Wetland Hydrology Present? Yes No Remarks: No	X Is the Samp within a Wet	led Area tland? Yes	<u>× No</u>

ACOE/CCC jurisdictional.

	Absolute	Dominant	Indicator	Dominance Test worksheet:		
<u>Tree Stratum</u> (Use scientific names.) 1. <u>-</u>	<u>% Cover</u>	<u>Species?</u>	<u>Status</u>	Number of Dominant Species That Are OBL, FACW, or FAC:0 (A)		
2				Total Number of Dominant Species Across All Strata:1(B)		
4				Percent of Dominant Species		
Total Cover: Sapling/Shrub Stratum				That Are OBL, FACW, or FAC:0 (A/B)		
1				Prevalence Index worksheet:		
2.				Total % Cover of:Multiply by:		
3.				OBL species x 1 =		
4.				FACW species x 2 =		
5.				FAC species x 3 =		
Total Cover:				FACU species x 4 =		
Herb Stratum				UPL species x 5 =		
1. Mesembryanthemum nodiflorum	40	Yes	FACU	Column Totals: (A) (B)		
2						
3				Prevalence Index = B/A =		
4				Hydrophytic Vegetation Indicators:		
5				Dominance Test is >50%		
6				Prevalence Index is ≤3.0 ¹		
7				Morphological Adaptations ¹ (Provide supporting		
8.				data in Remarks or on a separate sheet)		
Total Cover:	40%			Problematic Hydrophytic Vegetation ¹ (Explain)		
1 -				¹ Indicators of hydric soil and wetland hydrology must		
2				be present.		
Z Total Cover:				Hydrophytic		
% Bare Ground in Herb Stratum <u>60%</u> % Cover of		of Biotic Crust		Vegetation Present? Yes No X		
Remarks:						
No hydrophytic vegetation present.						

			•					•
Depth	Matrix	0/	Redo	x Feature	<u>s</u>	12	Tartan	Describe
(incnes)	Color (moist)	%	Color (moist)	%	Type	LOC	lexture	Salt crust
0-0	- <u> </u>							Salt Clust
6-7	2.5Y 3/1			<u> </u>				Peat layer
7-12	7.5YR 3/2		2.5Y 4/1	40	С	Μ	Clay	Loamy sand
	<u> </u>							
							·	
¹ Type: C=C	Concentration D=Denk	-tion RM		² Location	· PI =Por	elinina F	C=Root Channel M	I=Matrix
Hydric Soil	Indicators: (Applica	ble to a	II LRRs, unless othe	rwise not	ed.)	e Enning, i	Indicators for P	Problematic Hydric Soils ³ :
Histosol (A1) Sandy Redox (S5)					1 cm Muck (A9) (LRR C)			
Histic E	Histic Epipedon (A2) Stripped Matrix (S6)					2 cm Muck (A10) (LRR B)		
Black Histic (A3) Loamy Mucky Mineral (F1)						Reduced Vertic (F18)		
Hydrogen Sulfide (A4) Loamy Gleved Matrix (F2)						Red Parent Material (TF2)		
Stratified Layers (A5) (LRR C) X Depleted Matrix (F3)						Other (Explain in Remarks)		
1 cm Muck (A9) (LRR D) Redox Dark Surface (F6)								
Deplete	ed Below Dark Surface	(A11)	Depleted D	ark Surfac	e (F7)			
Thick Dark Surface (A12) Redox Depressions (F8)								
Sandy Mucky Mineral (S1) Vernal Pools (F9)						³ Indicators of hydrophytic vegetation and		
Sandy Gleyed Matrix (S4)						wetland hydrology must be present.		
Restrictive	Layer (if present):							
Туре:								
Depth (inches):						Hydric Soil Pres	ent? Yes <u>×</u> No	
Remarks:								
Clay aburda	a throughout the les		du platu atmuatures -	no vom f		atlavar	Lludria apilo proces	at
Jav chunks	s inroughout the loa	my san	a; platy structures a	ire very fi	ine in pea	at layer.	Hyaric solis presei	nt.

Wetland Hydrology Indicators:		Secondary Indicators (2 or more required)				
Primary Indicators (any one indicator is sufficient	;)	Water Marks (B1) (Riverine)				
Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonriverine) Sediment Deposits (B2) (Nonriverine) Drift Deposits (B3) (Nonriverine) Surface Soil Cracks (B6) X Inundation Visible on Aerial Imagery (B7)	 X Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Presence of Reduced Iron (C4) Recent Iron Reduction in Plowed Soc X Other (Explain in Remarks) 	 Water Marks (BT) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2) Roots (C3) Thin Muck Surface (C7) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9) Shallow Aquitard (D3) 				
Water-Stained Leaves (B9)		FAC-Neutral Test (D5)				
Field Observations:						
Surface Water Present? Yes No _	Depth (inches):					
Water Table Present? Yes No	Depth (inches):					
Saturation Present? Yes <u>X</u> No (includes capillary fringe)	Depth (inches): <u>7-12</u>	Wetland Hydrology Present? Yes <u>X</u> No				
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:						
Remarks:						
Hydrologic indicators present. 2005 Aerial I	magery and rainfall data.					
Project/Site: Pond 20	City/County: Imperial Beach/San Diego Sampling Date: 7/7/08					
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Applicant/Owner: Port of San Diego	State: CA Sampling Point: DP56/PP56					
Investigator(s): Rebecca Erickson/Brad Kelly	Section, Township, Range: <u>S20;</u> T18S; R2W					
Landform (hillslope, terrace, etc.): salt panne	Local relief (concave, convex, none): none Slope (%): 0%					
Subregion (LRR): C Lat:	<u>6298518.65044</u> Long: <u>1794539.51731</u> Datum: <u>NAD83</u>					
Soil Map Unit Name: Drainage/perennial	NWI classification: PEMh					
Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No (If no, explain in Remarks.) Are Vegetation						
Hydrophytic Vegetation Present? Yes No Hydric Soil Present? Yes No Wetland Hydrology Present? Yes No	X Is the Sampled Area x within a Wetland?					

Remarks:

Non-jurisdictional.

VEGETATION

	Absolute	Dominant	Indicator	Dominance Test worksheet		
Tree Stratum (Use scientific names.)	% Cover	Species?	Status	Number of Dominant Species	6	
1			. <u> </u>	That Are OBL, FACW, or FA	C:	(A)
2			. <u> </u>	Total Number of Dominant		
3				Species Across All Strata:		(B)
4	. <u> </u>			Percent of Dominant Species	3	
Total Cover:				That Are OBL, FACW, or FAC	C:	(A/B)
				Provalence Index workshop		
l			·	Total % Cover of:	Multiply by:	
2	·					-
3	·		·		x I =	-
	·		·		x 2	-
5				FAC species	x 3 =	-
Total Cover:				FACU species	x 4 =	-
Mesenbryanthemum nodiflorum	60		FACU	UPL species	x 5 =	-
2				Column Totals:	(A)	_ (B)
3.				Prevalence Index = B//	A =	_
4.				Hydrophytic Vegetation Inc	licators:	
5.				Dominance Test is >50%	, D	
6.				Prevalence Index is ≤3.0	1	
7				Morphological Adaptation	ns ¹ (Provide support	ing
8				data in Remarks or or	n a separate sheet)	
Total Cover:	60%			Problematic Hydrophytic	Vegetation' (Explain	n)
Woody Vine Stratum				1		
1			<u> </u>	'Indicators of hydric soil and	wetland hydrology m	nust
2				be present.		
Total Cover:				Hydrophytic		
% Bare Ground in Herb Stratum <u>40%</u> % Cover	of Biotic Ci	rust		Present? Yes	<u>No X</u>	
Remarks:						
No hydrophytic vocatation procept						
No hydrophytic vegetation present.						

I

Profile Des	scription: (Describe t	o the dept	n needed to docur	nent the i	ndicator	or confirm	the absence of ind	dicators.))	. <u></u>	
Depth	 Matrix	•	Redo	x Features	6			•			
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture		Remarks		
0-6									Calciu	m carbo	nate
6-12	5 YR 3/2								Silty cl	ay	
				·							
				·							
				·							
¹ Type: C=0	Concentration, D=Deple	etion, RM=F	Reduced Matrix.	² Location	: PL=Por	e Lining, R	RC=Root Channel, M	=Matrix.			
Hydric Soi	I Indicators: (Applica	ble to all L	RRs, unless other	wise note	ed.)		Indicators for P	roblemat	ic Hydric	Soils ³ :	
Histoso	bl (A1)		Sandy Redo	ox (S5)			1 cm Muck (A9) (LRR C)				
HISTIC E	=pipedon (A2)		Stripped Ma	itrix (56)			2 cm Muck (A10) (LRR B)				
	TISUC (AS)			ky Matrix	(F1) (F2)		Reduced Vertic (FTo) Red Derent Material (TE2)				
Hyurou	d Lovers (A5) (LPP C	`	Loanly Gley	etrix (E2)	(Г2)		Red Fatelli Matellal (TF2)				
)	Depieted M	auix (FS)			Other (Explain in Remarks)				
I cill liv	ed Below Dark Surface	(Δ11)		ark Surfac	го) о (F7)						
Depict	oark Surface (Δ12)	(411)	Beday Dep	ant Ounac	=8)						
Sandy	Mucky Mineral (S1)		Vernal Pool	s (F9)	0)		³ Indicators of hyd	drophytic	venetation	and	
Sandy	Sandy Gleved Matrix (S4)				wetland hvdro	oloav mus	t be prese	ent.			
Restrictive	Layer (if present):										
Type:	, , ,										
Depth (i	nches):						Hydric Soil Pres	ent? Y	es	No	×
Remarks:							1				

No redox concentrations present. Soil salinity is high and prevents this chemical process where it would normally occur. Hydric soil indicators not present.

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

Project/Site: Pond 20	City/County: Imperial Beach	ı/San Diego ج	Sampling Date: 7/7/08		
Applicant/Owner: Port of San Diego		State: CA	Sampling Point: DP57/PP57		
Investigator(s): Rebecca Erickson/Brad Kelly	Section, Township, Range: S	20; T18S; R2W			
Landform (hillslope, terrace, etc.): flat salt marsh	Local relief (concave, convex	k, none): <u>concave</u>	Slope (%): 0%		
Subregion (LRR): C	Lat: <u>6298260.40336</u> Long	1794346.49891	Datum: NAD83		
Soil Map Unit Name: Huerhuero-Urban land complex		NWI classificat	lion:		
Are climatic / hydrologic conditions on the site typical for this ti	ne of year? Yes <u>×</u> No	(If no, explain in Rer	marks.)		
Are Vegetation <u>No</u> , Soil <u>No</u> , or Hydrology <u>No</u> sigr	ificantly disturbed? Are "Norma	al Circumstances" pre	esent? Yes X No		
Are Vegetation <u>No</u> , Soil <u>No</u> , or Hydrology <u>No</u> nate	rally problematic? (If needed,	explain any answers	in Remarks.)		
SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.					
Hydrophytic Vegetation Present? Yes X No _ Hydric Soil Present? Yes X No _	Is the Sampled Area within a Wetland?	Yes	<u>×</u> No		
Wetland Hydrology Present? Yes 🔨 No					

Remarks:

ACOE/CCC jurisdictional.

	Absolute	Dominant	Indicator	Dominance Test worksheet:
<u>Tree Stratum</u> (Use scientific names.) 1. <u>-</u>	% Cover	Species?	Status	Number of Dominant Species That Are OBL, FACW, or FAC:1 (A)
2				Total Number of Dominant
3				Species Across All Strata: 1 (B)
4Total Cover:				Percent of Dominant Species That Are OBL, FACW, or FAC:(A/B)
				Prevalence Index worksheet:
1	. <u> </u>			Total % Cover of: Multiply by:
2	·			1000000000000000000000000000000000000
3				$\frac{10}{10} \times 2 = \frac{20}{10}$
4				FACW species $x^2 =$
5				
Herb Stratum				FACU species X 4 =
1 Sarcocornia pacifica	70	Yes	OBL	UPL species x 5 = 100 110
2 Batis maritima	20	No	OBL	Column Totals: (A) (B)
3. Frankenia salina	10	No	FACW	Prevalence Index = B/A =1.1
4				Hydrophytic Vegetation Indicators:
5.				X Dominance Test is >50%
6.				\times Prevalence Index is ≤3.0 ¹
7				Morphological Adaptations ¹ (Provide supporting
8				data in Remarks or on a separate sheet)
Total Cover:	100%			Problematic Hydrophytic Vegetation' (Explain)
Woody Vine Stratum				1
1				Indicators of hydric soil and wetland hydrology must
2	. <u> </u>			
Total Cover:				Hydrophytic Vegetation
% Bare Ground in Herb Stratum0% % Cover	of Biotic C	rust		Present? Yes X No
Remarks:				
DP57 located within Coastal Salt Marsh. Hydrophytic	vegetatio	on dominar	nt.	

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)										
Depth	Matrix		Redo	x Features	5					
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks		
0-12	7.5YR 4/1							Silty clay		
				·						
				·			·			
				·						
		<u> </u>			·					
¹ Type: C=C	oncentration, D=Depl	etion, RM=F	Reduced Matrix.	² Location	: PL=Por	e Lining, F	C=Root Channe	el, M=Matrix.		
Hydric Soil	Indicators: (Applica	ble to all L	RRs, unless other	wise not	ed.)		Indicators for	or Problematic Hydric Soils ³ :		
<u> </u>	(A1)		Sandy Rede	ox (S5)			1 cm Muck (A9) (LRR C)			
Histic E	pipedon (A2)		Stripped Ma	atrix (S6)			2 cm Muck (A10) (LRR B)			
Black H	istic (A3)		Loamy Muc	ky Minera	l (F1)		Reduced Vertic (F18)			
Hydroge	en Sulfide (A4)		Loamy Gley	ed Matrix	(F2)		Red Parent Material (TF2)			
<u>Stratifie</u>	d Layers (A5) (LRR C	;)	X Depleted M	atrix (F3)			Other (Explain in Remarks)			
1 cm M	uck (A9) (LRR D)		Redox Dark	Surface (F6)					
Deplete	d Below Dark Surface	e (A11)	Depleted Date	ark Surfac	e (F7)					
Thick D	ark Surface (A12)		Redox Dep	essions (l	F8)					
Sandy M	Aucky Mineral (S1)		Vernal Pool	s (F9)			³ Indicators o	of hydrophytic vegetation and		
Sandy (Gleyed Matrix (S4)						wetland h	nydrology must be present.		
Restrictive	Layer (if present):									
Type:										
Depth (in	ches):						Hydric Soil F	Present? Yes <u>×</u> No		
Remarks:							•			
High organie	c matter content no	ted through	nout 0-12 inches	No mot	tles. Hyd	dric soil p	resent.			

Wetland Hydrology Indicators:	Secondary Indicators (2 or more required)
Primary Indicators (any one indicator is sufficient)	Water Marks (B1) (Riverine)
X Surface Water (A1) Salt Crust (B11)	Sediment Deposits (B2) (Riverine)
High Water Table (A2) Biotic Crust (B12)	Drift Deposits (B3) (Riverine)
X Saturation (A3) Aquatic Invertebrates (B13)	X Drainage Patterns (B10)
Water Marks (B1) (Nonriverine) Hydrogen Sulfide Odor (C1)	Dry-Season Water Table (C2)
Sediment Deposits (B2) (Nonriverine) Oxidized Rhizospheres along Livin	ng Roots (C3) Thin Muck Surface (C7)
X Drift Deposits (B3) (Nonriverine) Presence of Reduced Iron (C4)	Crayfish Burrows (C8)
Surface Soil Cracks (B6) Recent Iron Reduction in Plowed	Soils (C6) Saturation Visible on Aerial Imagery (C9)
Inundation Visible on Aerial Imagery (B7) Other (Explain in Remarks)	Shallow Aquitard (D3)
X Water-Stained Leaves (B9)	FAC-Neutral Test (D5)
Field Observations:	
Surface Water Present? Yes X No Depth (inches): <1	
Water Table Present? Yes No Depth (inches):	
Saturation Present? Yes X No Depth (inches): 0-12	Wetland Hydrology Present? Yes <u>×</u> No
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspec	tions), if available:
Remarks:	
Hydrology procept	

Project/Site: Pond 20	City/County: Imperia	I Beach/San Diego	_ Sampling Date: 7/7/08		
Applicant/Owner: Port of San Diego		State: CA	Sampling Point: DP58/PP58		
Investigator(s): Rebecca Erickson/Brad Kelly	Section, Township, F	Range: <u>S20; T18S; R2W</u>			
Landform (hillslope, terrace, etc.): flat salt marsh	Local relief (concave	e, convex, none): <u>none</u>	Slope (%): 0%		
Subregion (LRR): C	at: <u>6298259.00724</u>	Long: <u>1794337.1638</u>	Datum: NAD83		
Soil Map Unit Name: Huerhuero-Urban land complex		NWI classifi	cation:		
Are climatic / hydrologic conditions on the site typical for this time of year? Yes No (If no, explain in Remarks.) Are VegetationNo, SoilNo, or HydrologyNo significantly disturbed? Are "Normal Circumstances" present? Yes No Are VegetationNo, SoilNo, or HydrologyNo naturally problematic? (If needed, explain any answers in Remarks.)					
SUMMARY OF FINDINGS – Attach site map sho	wing sampling point	locations, transect	s, important features, etc.		
Hydrophytic Vegetation Present? Yes X No Hydric Soil Present? Yes X No Wetland Hydrology Present? Yes X No	Is the Sample within a Wetl	ed Area and? Yes	<u>×</u> No		

Remarks:

ACOE/CCC jurisdictional.

	Absolute	Dominant	Indicator	Dominance Test worksheet:
<u>Tree Stratum</u> (Use scientific names.) 1. ⁻	<u>% Cover</u>	Species?	Status	Number of Dominant Species That Are OBL, FACW, or FAC:1 (A)
2				Total Number of Dominant
3				Species Across All Strata: (B)
4				
Total Cover:	:			That Are OBL_EACW or EAC [·] 100 (A/B)
Sapling/Shrub Stratum				
1				Prevalence Index worksheet:
2				Total % Cover of:Multiply by:
3				OBL species25 x 1 =25
4				FACW species <u>5</u> x 2 = <u>10</u>
5				FAC species x 3 =
Total Cover:	:			FACU species x 4 =
Herb Stratum				UPL species x 5 =
1. <mark>Batis maritima</mark>	20	Yes	OBL	Column Totals: 30 (A) 35 (B)
2. Sarcocornia pacifica	5	No	OBL	
_{3.} Frankenia salina	5	No	FACW	Prevalence Index = B/A = 1.17
4				Hydrophytic Vegetation Indicators:
5.				X Dominance Test is >50%
6				\times Prevalence Index is ≤3.0 ¹
7			·	Morphological Adaptations ¹ (Provide supporting
8				data in Remarks or on a separate sheet)
Total Cover	30%		·	Problematic Hydrophytic Vegetation ¹ (Explain)
Woody Vine Stratum				
1				¹ Indicators of hydric soil and wetland hydrology must
2				be present.
Total Cover:				Hydrophytic Vegetation
% Bare Ground in Herb Stratum 70% % Cover	of Biotic C	rust		Present? Yes X No
Remarks:				
Hydrophytic vegetation present.				

SOIL

Profile Des	cription: (Describe t	o the dep	oth needed to docu	ment the i	ndicator	or confirm	n the absence of indicators.)		
Depth	Pepth Matrix Redox Features								
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture Remarks		
0-12	2.5Y 3/1		2.5YR 3/3	20	С	М	Silty clay		
							· ·		
1 Type: C=C	oncentration D=Denk	etion RM	=Reduced Matrix	² Location	· PI =Por	e Linina R	RC=Root Channel M=Matrix		
Hydric Soil	Indicators: (Applica	ble to all	LRRs. unless othe	rwise not	ed.)	o Ennig, i	Indicators for Problematic Hydric Soils ³ :		
Histoso			Sandy Red	lox (S5)	,		1 cm Muck (A9) (I BB C)		
Histic F	nipedon (A2)		Stripped M	atrix (S6)			2 cm Muck (A10) (I RR B)		
Black H	istic (A3)		Loamy Mu	ckv Minera	l (F1)		Reduced Vertic (F18)		
Hvdroge	en Sulfide (A4)		Loamy Gle	ved Matrix	(F2)		Red Parent Material (TF2)		
Stratifie	d Lavers (A5) (LRR C)	Depleted M	latrix (F3)	()		Other (Explain in Remarks)		
1 cm M	uck (A9) (LRR D)	,	Redox Dar	k Surface ((F6)				
Deplete	d Below Dark Surface	(A11)	Depleted D	ark Surfac	e (F7)				
Thick D	ark Surface (A12)		Redox Dep	oressions (F8)				
Sandy M	Mucky Mineral (S1)		Vernal Poo	ls (F9)			³ Indicators of hydrophytic vegetation and		
Sandy (Gleyed Matrix (S4)						wetland hydrology must be present.		
Restrictive	Layer (if present):								
Туре:									
Depth (in	ches):						Hydric Soil Present? Yes × No		
Remarks:	,								
rtomanto.									
Sand depos	its throughout. Mot	tles pres	ent 0-12 inches.	Hydric so	il presen	t.			
HYDROLO	GY								

Wetland Hydrology Indicators:		Secondary Indicators (2 or more required)
Primary Indicators (any one indicator is sufficient)		Water Marks (B1) (Riverine)
Surface Water (A1) X Sa	alt Crust (B11)	Sediment Deposits (B2) (Riverine)
High Water Table (A2) Bi	iotic Crust (B12)	Drift Deposits (B3) (Riverine)
X Saturation (A3)	quatic Invertebrates (B13)	Drainage Patterns (B10)
Water Marks (B1) (Nonriverine) H	lydrogen Sulfide Odor (C1)	Dry-Season Water Table (C2)
Sediment Deposits (B2) (Nonriverine) O	oxidized Rhizospheres along Living Roots	(C3) Thin Muck Surface (C7)
Drift Deposits (B3) (Nonriverine) P	resence of Reduced Iron (C4)	Crayfish Burrows (C8)
Surface Soil Cracks (B6) R	ecent Iron Reduction in Plowed Soils (C6)	Saturation Visible on Aerial Imagery (C9)
Inundation Visible on Aerial Imagery (B7) O	Other (Explain in Remarks)	Shallow Aquitard (D3)
Water-Stained Leaves (B9)		FAC-Neutral Test (D5)
Field Observations:		
Surface Water Present? Yes No E	Depth (inches):	
Water Table Present? Yes No E	Depth (inches):	
Saturation Present? Yes <u>X</u> No <u>C</u> (includes capillary fringe)	Depth (inches): 8-12 Wetland	l Hydrology Present? Yes <u>×</u> No
Describe Recorded Data (stream gauge, monitoring we	ll, aerial photos, previous inspections), if a	vailable:
Remarks:		
Soil is wet but not saturated (0.12 inches) . Hydrol	ogy present	
	ogy present.	

Project/Site: Pond 20	City/County: Imperial Beach/San Diego Sampling Date: 7/7/08					
Applicant/Owner: Port of San Diego	State: CA Sampling Point: DP59/PP59					
Investigator(s): Rebecca Erickson/Brad Kelly	Section, Township, Range: S20; T18S; R2W					
Landform (hillslope, terrace, etc.): unvegetated salt pan	_ Local relief (concave, convex, none): none Slope (%): 0%					
Subregion (LRR): C Lat: 62	98264.24085 Long: <u>1794310.30353</u> Datum: <u>NAD83</u>					
Soil Map Unit Name: Huerhuero-Urban land complex	NWI classification:					
Are climatic / hydrologic conditions on the site typical for this time of year? Yes <u>×</u> No (If no, explain in Remarks.) Are Vegetation <u>No</u> , Soil <u>No</u> , or Hydrology <u>No</u> significantly disturbed? Are Vegetation <u>No</u> , Soil <u>No</u> , or Hydrology <u>No</u> naturally problematic? SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.						
Hydrophytic Vegetation Present? Yes NoX Hydric Soil Present? Yes NoX Wetland Hydrology Present? Yes NoX	Is the Sampled Area within a Wetland? Yes NoX					

Remarks:

CCC jurisdictional only.

	Absolute	Dominant	Indicator	Dominance Test worksheet:	
Tree Stratum (Use scientific names.)	<u>% Cover</u>	Species?	Status	Number of Dominant Species	
1				That Are OBL, FACW, or FAC: (A)	
2				Total Number of Dominant	
3				Species Across All Strata: (B)	
4.					
Total Cover:				Percent of Dominant Species	D)
Sapling/Shrub Stratum					5)
1				Prevalence Index worksheet:	
2.				Total % Cover of:Multiply by:	
3.				OBL species x 1 =	
4				FACW species x 2 =	
5				FAC species x 3 =	
Total Cover:				FACU species x 4 =	
Herb Stratum					
1				Column Totale: (A)	2
2.)
3			·	Prevalence Index = B/A =	
4			·	Hydrophytic Vegetation Indicators:	
5				Dominance Test is >50%	
6			·	Prevalence Index is ≤3.0 ¹	
0				Morphological Adaptations ¹ (Provide supporting	
<i>1</i>			·	data in Remarks or on a separate sheet)	
8				Problematic Hydrophytic Vegetation ¹ (Explain)	
Total Cover:					
				¹ Indicators of hydric soil and wetland hydrology must	
l			·	be present.	
2			·		
Total Cover:				Hydrophytic Vegetation	
% Bare Ground in Herb Stratum % Cover	of Biotic C	rust		Present? Yes <u>No X</u>	
Remarks:					
No vegetation present					

Depth	Matrix		Red	<u>ox Feature</u>	S .					
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Ren	narks	
)-11	7.5YR 3/2							S	Silty loam	
2-15	7.5YR 4/1		2.5YR 3/3	5	С	М		S	Silty clay	
					·					
Type: C=C	Concentration, D=Dep	letion, RM	I=Reduced Matrix.	² Locatior	n: PL=Por	e Lining, F	RC=Root Channel, M	-Matrix.	3	
lydric Soil	Indicators: (Applic	able to al	I LRRs, unless othe	erwise not	ed.)		Indicators for P	oblematic H	lydric Soils':	:
Histosc	l (A1)		Sandy Red	lox (S5)			1 cm Muck (A	A9) (LRR C)		
Histic E	pipedon (A2)		Stripped N	latrix (S6)			2 cm Muck (A10) (LRR B)	
_ Black Histic (A3) Loamy Mucky Mineral (F1)							Reduced Ve	tic (F18)		
Hydrog	en Sulfide (A4)		Loamy Gle	eyed Matrix	: (F2)		Red Parent I	/laterial (TF2	2)	
Stratifie	ed Layers (A5) (LRR (C)	Depleted N	/latrix (F3)			Other (Explain of the image	in in Remark	s)	
1 cm M	uck (A9) (LRR D)		Redox Dai	k Surface	(F6)					
Deplete	ed Below Dark Surfac	e (A11)	Depleted I	Dark Surfac	ce (F7)					
Thick D	ark Surface (A12)		Redox Dep	pressions (F8)					
Sandy	Mucky Mineral (S1)		Vernal Poo	ols (F9)			³ Indicators of hyd	rophytic veg	etation and	
Sandy	Gleyed Matrix (S4)			、 ,			wetland hydro	logy must be	present.	
Restrictive	Layer (if present):									
Type:										
Depth (ir	nches):						Hydric Soil Prese	nt? Yes	No	>
Remarks:										
	(0.11 inches) No	la valuita -	all indiantana waaaa							
omottiing	(U-11 inches). No	nyaric se	on malcators prese	iit.						

Wetland Hydrology Indicat	ors:				Secondary Indicators (2 or more required)
Primary Indicators (any one	indicator is su	fficient)			Water Marks (B1) (Riverine)
Surface Water (A1)		<u>×</u>	Salt Crust (B11)		Sediment Deposits (B2) (Riverine)
High Water Table (A2)			Biotic Crust (B12)		Drift Deposits (B3) (Riverine)
Saturation (A3)			_ Aquatic Invertebrates (B13)		Drainage Patterns (B10)
X Water Marks (B1) (Noni	iverine)		_ Hydrogen Sulfide Odor (C1)		Dry-Season Water Table (C2)
Sediment Deposits (B2)	(Nonriverine)	_ Oxidized Rhizospheres along Liv	ring Roots (C3)	Thin Muck Surface (C7)
Drift Deposits (B3) (Non	riverine)		Presence of Reduced Iron (C4)		Crayfish Burrows (C8)
Surface Soil Cracks (B6)		_ Recent Iron Reduction in Plowed	l Soils (C6)	Saturation Visible on Aerial Imagery (C9)
Inundation Visible on Ae	rial Imagery (B7)	Other (Explain in Remarks)		Shallow Aquitard (D3)
Water-Stained Leaves (39)				FAC-Neutral Test (D5)
Field Observations:					
Surface Water Present?	Yes	No	Depth (inches):		
Water Table Present?	Yes	No	Depth (inches):		
Saturation Present? (includes capillary fringe)	Yes	No	Depth (inches):	Wetland Hy	drology Present? Yes <u>X</u> No
Describe Recorded Data (str	ream gauge, r	nonitoring	g well, aerial photos, previous inspe	ctions), if availa	able:
Remarks:					
Hydrology present.					

Project/Site: Pond 20	_ City/County: Imperial Beach/San Diego Sampling Date: 7/7/08				
Applicant/Owner: Port of San Diego	State: <u>CA</u> Sampling Point: <u>DP60/PP60</u>				
Investigator(s): Rebecca Erickson/Brad Kelly	_ Section, Township, Range: <u>S20;</u> T18S; R2W				
Landform (hillslope, terrace, etc.): unvegetated salt pan	_ Local relief (concave, convex, none): <u>none</u> Slope (%): <u>0%</u>				
Subregion (LRR): C	298295.76398 Long: <u>1794286.90536</u> Datum: <u>NAD83</u>				
Soil Map Unit Name: <u>Huerhuero-Urban land complex</u>	NWI classification:				
Are climatic / hydrologic conditions on the site typical for this time of year? Yes <u>X</u> No (If no, explain in Remarks.) Are Vegetation <u>No</u> , Soil <u>No</u> , or Hydrology <u>No</u> significantly disturbed? Are "Normal Circumstances" present? Yes <u>X</u> No (If needed, explain any answers in Remarks.)					
SUMMARY OF FINDINGS – Attach site map showing	g sampling point locations, transects, important features, etc.				
Hydrophytic Vegetation Present? Yes NoX Hydric Soil Present? Yes NoX Wetland Hydrology Present? Yes No	Is the Sampled Area within a Wetland? Yes <u>No X</u>				

Remarks:

CCC jurisdictional only.

	Absolute	Dominant	Indicator	Dominance Test worksheet:
<u>Tree Stratum</u> (Use scientific names.)	<u>% Cover</u>	Species?	Status	Number of Dominant Species
1			·	That Are OBL, FACW, or FAC: (A)
2				Total Number of Dominant
3				Species Across All Strata: (B)
4				Percent of Dominant Species
Total Cover:				That Are OBL, FACW, or FAC: (A/B)
Sapling/Shrub Stratum				Drevelance in dev weekste sets
1				
2			·	Iotal % Cover or: Multiply by:
3	·		·	OBL species x 1 =
4				FACW species x 2 =
5				FAC species x 3 =
Total Cover:				FACU species x 4 =
Herb Stratum				UPL species x 5 =
1. <u>-</u>				Column Totals: (A) (B)
2				Developed Index D/A
3			<u> </u>	Prevalence index = B/A =
4	<u> </u>		·	Hydrophytic Vegetation Indicators:
5				Dominance Test is >50%
6				Prevalence Index is ≤3.0 ¹
7				Morphological Adaptations ¹ (Provide supporting
8				Droblometic Hydrophytic Vegetation ¹ (Evaluit)
Total Cover:				
Woody Vine Stratum				
1				Indicators of hydric soil and wetland hydrology must
2				
Total Cover:				Hydrophytic Vogetation
% Bare Ground in Herb Stratum % Cover	of Biotic C	rust		Present? Yes <u>No X</u>
Remarks:				
No vegetation present				

	Matrix		Redo	ox Feature	S					
inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remar	ks	
-11	7.5YR 3/2							Silt	y loam	
2-15	7.5YR 3/1							Sar	ıdy clay loan	
	- <u> </u>									
	- <u></u>									
Туре: С=С	Concentration, D=Depl	etion, RM=	Reduced Matrix.	² Locatior	n: PL=Por	e Lining, R	C=Root Channel, M=	Matrix.		
ydric Soil	I Indicators: (Applica	ble to all	LRRs, unless othe	rwise not	ed.)		Indicators for Pre	oblematic Hyd	ric Soils ³ :	
Histosol (A1)			Sandy Red	ox (S5)			1 cm Muck (A	9) (LRR C)		
Histic E	Epipedon (A2)		Stripped Matrix (S6)				2 cm Muck (A10) (LRR B)			
Black H	Histic (A3)		Loamy Muo	cky Minera	l (F1)		Reduced Vertic (F18)			
Hydrog	en Sulfide (A4)		Loamy Gle	yed Matrix	(F2)		Red Parent Material (TF2)			
Stratifie	ed Layers (A5) (LRR C	;)	Depleted N	latrix (F3)			Other (Explain in Remarks)			
 1 cm M	luck (A9) (LRR D)	,	 Redox Dar	k Surface	(F6)			,		
Deplete	ed Below Dark Surface	e (A11)	Depleted D	ark Surfac	ce (F7)					
Thick D	Dark Surface (A12)	()	Redox Dep	ressions (F8)					
Sandy	Mucky Mineral (S1)		Vernal Poo	ls (F9)	/	³ Indicators of hydrophytic vegetation and			tion and	
Sandy	Gleved Matrix (S4)						wetland hydrology must be present.			
Restrictive	Laver (if present):						,	3,		
Type:	, , ,									
	nches):						Hydric Soil Prese	nt? Yes	No	
Depth (ir										

Wetland Hydrology Indicators	\$:		Secondary Indicators (2 or more required)
Primary Indicators (any one indi	icator is sufficient	t)	Water Marks (B1) (Riverine)
Surface Water (A1)		X Salt Crust (B11)	Sediment Deposits (B2) (Riverine)
High Water Table (A2)		Biotic Crust (B12)	Drift Deposits (B3) (Riverine)
Saturation (A3)		Aquatic Invertebrates (B13)	Drainage Patterns (B10)
X Water Marks (B1) (Nonrive	rine)	Hydrogen Sulfide Odor (C1)	Dry-Season Water Table (C2)
Sediment Deposits (B2) (N	onriverine)	Oxidized Rhizospheres along Livit	ng Roots (C3) Thin Muck Surface (C7)
Drift Deposits (B3) (Nonriv	erine)	Presence of Reduced Iron (C4)	Crayfish Burrows (C8)
Surface Soil Cracks (B6)		Recent Iron Reduction in Plowed	Soils (C6) Saturation Visible on Aerial Imagery (C9)
Inundation Visible on Aeria	Imagery (B7)	Other (Explain in Remarks)	Shallow Aquitard (D3)
Water-Stained Leaves (B9)			FAC-Neutral Test (D5)
Field Observations:			
Surface Water Present?	Yes No _	Depth (inches):	
Water Table Present?	Yes No _	Depth (inches):	l
Saturation Present? (includes capillary fringe)	Yes No _	Depth (inches):	Wetland Hydrology Present? Yes <u>×</u> No
Describe Recorded Data (stream	m gauge, monito	ring well, aerial photos, previous inspec	tions), if available:
Remarks:			
Hydrology present.			

Project/Site: Pond 20	City/County: Imperial Beach/San Diego Sampling Date: 7/7/08
Applicant/Owner: Port of San Diego	State: CA Sampling Point: DP61/PP61
Investigator(s): Rebecca Erickson/Brad Kelly	Section, Township, Range: S20; T18S; R2W
Landform (hillslope, terrace, etc.): flat salt marsh	Local relief (concave, convex, none): none Slope (%): 0%
Subregion (LRR): C L	at: <u>6298331.90366</u> Long: <u>1794263.18558</u> Datum: <u>NAD83</u>
Soil Map Unit Name: Huerhuero-Urban land complex	NWI classification:
Are climatic / hydrologic conditions on the site typical for this tim	ne of year? Yes <u>X</u> No (If no, explain in Remarks.)
Are Vegetation <u>No</u> , Soil <u>No</u> , or Hydrology <u>No</u> signi	ficantly disturbed? Are "Normal Circumstances" present? Yes <u>×</u> No
Are Vegetation <u>No</u> , Soil <u>No</u> , or Hydrology <u>No</u> nature	rally problematic? (If needed, explain any answers in Remarks.)
SUMMARY OF FINDINGS – Attach site map she	owing sampling point locations, transects, important features, etc.
Hydrophytic Vegetation Present? Yes X No Hydric Soil Present? Yes X No Wetland Hydrology Present? Yes X No	Is the Sampled Area within a Wetland? Yes <u>×</u> No

Remarks:

ACOE/CCC jurisdictional.

	Absolute	Dominant	Indicator	Dominance Test worksheet:
<u>Tree Stratum</u> (Use scientific names.)	<u>% Cover</u>	<u>Species?</u>	Status	Number of Dominant Species
l				That Are OBL, FACW, of FAC: (A)
2			·	Total Number of Dominant
3				Species Across All Strata: (B)
4				Percent of Dominant Species
Total Cover:				That Are OBL, FACW, or FAC: 100 (A/B)
Sapling/Shrub Stratum				
1				Prevalence Index worksheet:
2				Total % Cover of: Multiply by:
3				OBL species <u>10</u> x 1 = <u>10</u>
4.				FACW species10 x 2 =20
5				FAC species x 3 =
Total Cover				FACU species x 4 =
Herb Stratum				
1 Frankenia salina	10	Yes	FACW	$\frac{20}{20}$
2 Limonium californicum	5	No	OBL	$\begin{array}{c} \text{Column lotals:} \underline{ 20} \\ \text{(A)} \\ \underline{ 00} \\ \text{(B)} \end{array}$
3 Arthrocnemum subterminale	5	No	OBL	Prevalence Index = $B/A = 1.5$
۵ ۸				Hydrophytic Vegetation Indicators:
				X Dominance Test is >50%
5:				\mathbf{X} Prevalence Index is <3 0 ¹
0				Merchological Adaptations ¹ (Provide supporting
/			·	data in Remarks or on a separate sheet)
8	000/			Problematic Hydrophytic Vegetation ¹ (Explain)
Total Cover:	20%			
Woody Vine Stratum				¹ Indicators of hydric coil and wattend hydrology must
1				be present
2				
Total Cover:				Hydrophytic Vegetation
% Bare Ground in Herb Stratum <u>80%</u> % Cover	of Biotic C	rust		Present? Yes X No
Remarks:				
Lludranhutia variation present				
nyurophytic vegetation present.				

Depth	Matrix		Redo	x Features	6					
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks		
)-4	7.5YR 3/2							Silty loam		
5-12	7.5YR 3/1							Sandy clay loar		
				·						
							·			
				·						
Type: C=C	Concentration. D=Depl	etion. RM=		² Location	: PL=Por	 e Linina. R	C=Root Channel. M	=Matrix.		
lydric Soil	I Indicators: (Applica	ble to all	LRRs, unless other	wise not	ed.)		Indicators for P	roblematic Hydric Soils ³ :		
Histosol (A1)		Sandy Red	ox (S5)			1 cm Muck (A9) (LRR C)				
Histic Epipedon (A2)			Stripped Ma	atrix (S6)			2 cm Muck (A10) (LRR B)			
Black H	Histic (A3)		Loamy Muc	ky Minera	l (F1)		Reduced Vertic (F18)			
Hydrog	en Sulfide (A4)		Loamy Gley	ed Matrix	(F2)		Red Parent Material (TF2)			
Stratifie	ed Layers (A5) (LRR C	:)	× Depleted M	X Depleted Matrix (F3)				Other (Explain in Remarks)		
 1 cm M	luck (A9) (LRR D)	,	Redox Dark	Surface (F6)			,		
 Deplete	ed Below Dark Surface	e (A11)	Depleted D	ark Surfac	é (F7)					
Thick D	Dark Surface (A12)	()	Redox Dep	ressions (I	-8)					
Sandy	Mucky Mineral (S1)		Vernal Pool	s (F9)	- /		³ Indicators of hydrogeneration	drophytic vegetation and		
Sandy Gleved Matrix (S4)						wetland hydro	plogy must be present.			
Restrictive	Layer (if present):									
Type:										
·)po	nches):						Hydric Soil Pres	ent? Yes <u>×</u> No		
Depth (ir										

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

Project/Site: Pond 20	City/County: Imperial Beach/San Diego Sampling Date: 7/7/08					
Applicant/Owner: Port of San Diego	State: CA Sampling Point: DP62/PP62					
Investigator(s): Rebecca Erickson/Brad Kelly	Section, Township, Range: S20; T18S; R2W					
Landform (hillslope, terrace, etc.): salt panne	Local relief (concave, convex, none): none Slope (%): 0%					
Subregion (LRR): C Lat: 629	08319.13020 Long: <u>1794254.36408</u> Datum: <u>NAD83</u>					
Soil Map Unit Name: Huerhuero-Urban land complex	NWI classification:					
Are climatic / hydrologic conditions on the site typical for this time of ye	ear? Yes X No (If no, explain in Remarks.)					
Are Vegetation <u>No</u> , Soil <u>No</u> , or Hydrology <u>No</u> significantly	disturbed? Are "Normal Circumstances" present? Yes <u>X</u> No					
Are Vegetation <u>No</u> , Soil <u>No</u> , or Hydrology <u>No</u> naturally pre-	oblematic? (If needed, explain any answers in Remarks.)					
SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.						
Hydrophytic Vegetation Present? Yes X No Hydric Soil Present? Yes No X Wetland Hydrology Present? Yes X No Remarks: X X	Is the Sampled Area within a Wetland? Yes NoX					

CCC jurisdictional only.

	Absolute	Dominant	Indicator	Dominance Test worksheet:
<u>Tree Stratum</u> (Use scientific names.) 1	<u>% Cover</u>	Species?	Status	Number of Dominant Species That Are OBL, FACW, or FAC:1 (A)
2				Total Number of Dominant
3				Species Across All Strata: (B)
4				
Total Cover:				That Are OBL_EACW or EAC ² 100 (A/B)
Sapling/Shrub Stratum				
1. <u>-</u>				Prevalence Index worksheet:
2				Total % Cover of: Multiply by:
3				OBL species x 1 =
4.				FACW species5 x 2 =10
5.				FAC species x 3 =
Total Cover:				FACU species x 4 =
Herb Stratum	·			UPL species x 5 =
_{1.} Frankenia salina	5	Yes	FACW	Column Totals: 5 (A) 10 (B)
2.				
3.				Prevalence Index = B/A =2.0
4				Hydrophytic Vegetation Indicators:
5			·	X Dominance Test is >50%
6				\overline{X} Prevalence Index is $\leq 3.0^1$
7				Morphological Adaptations ¹ (Provide supporting
7				data in Remarks or on a separate sheet)
8	5%			Problematic Hydrophytic Vegetation ¹ (Explain)
Voody Vine Stratum	070			
1 -				¹ Indicators of hydric soil and wetland hydrology must
1		<u> </u>		be present.
Z			·	Live was have a
I otal Cover:				Vegetation
% Bare Ground in Herb Stratum95% % Cover	of Biotic C	rust		Present? Yes X No
Remarks:				
Hydrophytic vegetation is present.				

Depth	Matrix		Rede	ox Features							
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	re Remarks			
0-6	7.5YR 3/3							Sa	andy clay		
	·										
Type: C=C	Concentration, D=Depl	etion, RM	=Reduced Matrix.	² Location:	PL=Pore	e Lining, F	RC=Root Channel, M	=Matrix.			
Hydric Soil	Indicators: (Applica	able to all	LRRs, unless othe	erwise noted	i.)		Indicators for P	oblematic Hy	/dric Soils ³ :		
Histoso	l (A1)		Sandy Rec	lox (S5)			1 cm Muck (49) (LRR C)			
Histic E	pipedon (A2)		Stripped Matrix (S6)				2 cm Muck (A10) (LRR B)				
Black H	listic (A3)		Loamy Mucky Mineral (F1)				Reduced Vertic (F18)				
Hydrog	en Sulfide (A4)		Loamy Gle	yed Matrix (I	F2)		Red Parent Material (TF2)				
Stratifie	d Layers (A5) (LRR C	;)	Depleted N	latrix (F3)			Other (Explain in Remarks)				
1 cm M	uck (A9) (LRR D)		Redox Dar	k Surface (F	6)						
Deplete	d Below Dark Surface	e (A11)	Depleted D	ark Surface	(F7)						
Thick D	ark Surface (A12)		Redox Dep	pressions (F8	3)		2				
Sandy I	Mucky Mineral (S1)		Vernal Poc	ols (F9)			³ Indicators of hyd	rophytic veget	tation and		
Sandy (Gleyed Matrix (S4)						wetland hydro	logy must be p	present.		
Restrictive	Layer (if present):										
Туре:											
Depth (in	iches):						Hydric Soil Prese	ent? Yes	No	X	
Remarks:											
ould not d	ig past 6 inches du	e to soil (compaction. Hydr	ic soll not p	resent.						

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

Project/Site: Pond 20	_ City/County: Imperial Beach/San Diego Sampling Date: 7/7/08
Applicant/Owner: Port of San Diego	State: CA Sampling Point: DP63/PP63
Investigator(s): Rebecca Erickson/Brad Kelly	_ Section, Township, Range: S20; T18S; R2W
Landform (hillslope, terrace, etc.): flat salt marsh	_ Local relief (concave, convex, none): none Slope (%): 0%
Subregion (LRR): C	298419.20001 Long: <u>1794100.09479</u> Datum: <u>NAD83</u>
Soil Map Unit Name: Huerhuero-Urban land complex	NWI classification:
Are climatic / hydrologic conditions on the site typical for this time of Are Vegetation <u>No</u> , Soil <u>No</u> , or Hydrology <u>No</u> significant Are Vegetation <u>No</u> , Soil <u>No</u> , or Hydrology <u>No</u> naturally p	year? Yes X No (If no, explain in Remarks.) tly disturbed? Are "Normal Circumstances" present? Yes X No problematic? (If needed, explain any answers in Remarks.) no sampling point locations, transects, important features, etc.
Hydrophytic Vegetation Present? Yes	- Is the Sampled Area
Hydric Soil Present? Yes X No Wetland Hydrology Present? Yes X No	within a Wetland? Yes <u>X</u> No

Remarks:

ACOE/CCC jurisdictional.

	Absolute	Dominant	Indicator	Dominance Test worksheet:
Tree Stratum (Use scientific names.)	<u>% Cover</u>	Species?	Status	Number of Dominant Species
1				That Are OBL, FACW, or FAC: (A)
2				Total Number of Dominant
3				Species Across All Strata: 1 (B)
4				Demonst of Deminorst Species
Total Cover:				That Are OBL FACW or FAC 100 (A/B)
Sapling/Shrub Stratum				
1. <u>-</u>				Prevalence Index worksheet:
2				Total % Cover of: Multiply by:
3				OBL species <u>15</u> x 1 = <u>15</u>
4				FACW species10 x 2 =20
5.				FAC species x 3 =
Total Cover:				FACU species x 4 =
Herb Stratum				UPL species x 5 =
1. Sarcocornia pacifica	10	Yes	OBL	Column Totals: 25 (A) 35 (B)
_{2.} Frankenia salina	10	No	FACW	
_{3.} Batis maritima	5	No	OBL	Prevalence Index = B/A =1.4
4.				Hydrophytic Vegetation Indicators:
5				X Dominance Test is >50%
6				\mathbf{X} Prevalence Index is $\leq 3.0^1$
7				Morphological Adaptations ¹ (Provide supporting
1				data in Remarks or on a separate sheet)
8	25%			Problematic Hydrophytic Vegetation ¹ (Explain)
Woody Vine Stratum	2070			
				¹ Indicators of hydric soil and wetland hydrology must
1				be present.
2				- Understand's
Total Cover:				Hydropnytic Vegetation
% Bare Ground in Herb Stratum 75% % Cover	of Biotic C	rust		Present? Yes X No
Remarks:				
Ludronhytic vocatation present				
nyurophytic vegetation present.				

Depth Matrix Redox Features											
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Rema	rks		
0-4	7.5YR 3/1	·						Cla	iy loam		
		<u> </u>									
		·									
Type: C=C	oncentration, D=Depl	etion, RM=	Reduced Matrix.	² Location:	PL=Pore	e Lining, F	RC=Root Channel, M	=Matrix.			
Hydric Soil	Indicators: (Applica	ble to all I	RRs, unless othe	rwise note	d.)		Indicators for P	roblematic Hyd	tric Soils ³ :		
Histosol	(A1)		Sandy Rec	lox (S5)			1 cm Muck (A9) (LRR C)			
Histic E	pipedon (AZ)			auix (SO) cky Mineral	(E1)		2 cm muck (A10) (LKK B) Reduced Vertic (E18)				
Hydroge	an Sulfide ($\Delta 4$)			ved Matrix	(F2)		Reduced Venic (TTO) Red Parent Material (TE2)				
Stratifie	d Lavers (A5) (I RR C)		Aatrix (F3)	(1 2)		Other (Evolution in Remarks)				
1 cm Mi	uck (A9) (I RR D)	/	Bedox Dar	k Surface (I	-6)						
Deplete	d Below Dark Surface	(A11)	Depleted F	ark Surface	e (F7)						
Depicto Thick Di	ark Surface (A12)	(,,,,)	Redox Der	pressions (F	(8)						
Sandy M	Aucky Mineral (S1)		Vernal Por	ols (F9)	•)		³ Indicators of hydrogeneration and hydrogeneration of hydrogeneration and hydrogeneration of hydrogeneration and hydrogenera	drophytic vegeta	ation and		
Sandy C	Gleved Matrix (S4)		<u> </u>				wetland hvdro	ploav must be p	resent.		
Restrictive	Layer (if present):							0,			
Type:											
Depth (in	ches):						Hydric Soil Pres	ent? Yes	× No		
Remarks:											
ould not di	a past 4 inches due	to heave	day layere Uy	dric soil pr	acont						
	y past 4 mones due	s to neavy	Ciay layers. Hy	nic son pre	esent.						

	Secondary Indicators (2 or more required)
nt)	Water Marks (B1) (Riverine)
X Salt Crust (B11)	Sediment Deposits (B2) (Riverine)
Biotic Crust (B12) Aquatic Invertebrates (B13)	Drift Deposits (B3) (Riverine) Drainage Patterns (B10)
 Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living R Presence of Reduced Iron (C4) Recent Iron Reduction in Plowed Soils Other (Explain in Remarks) 	 Dry-Season Water Table (C2) Roots (C3) Thin Muck Surface (C7) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9) Shallow Aquitard (D3) FAC-Neutral Test (D5)
Depth (inches):	
Depth (inches):	
Depth (inches): We	etland Hydrology Present? Yes <u>×</u> No
pring well, aerial photos, previous inspections	s), if available:
	<u>X</u> Salt Crust (B11)

Project/Site: Pond 20	City/County: Imperial Beach/San Diego Sampling Date: 7	/7/08			
Applicant/Owner: Port of San Diego	State: CA Sampling Point: [)P64/PP64			
Investigator(s): Rebecca Erickson/Brad Kelly	Section, Township, Range: S20; T18S; R2W				
Landform (hillslope, terrace, etc.): flat upland	Local relief (concave, convex, none): none Slop	be (%): <u>0%</u>			
Subregion (LRR): C	:: <u>6298368.70892</u> Long: <u>1794097.78247</u> Datur	n: NAD83			
Soil Map Unit Name: Huerhuero-Urban land complex	NWI classification:				
Are climatic / hydrologic conditions on the site typical for this time of year? Yes <u>×</u> No (If no, explain in Remarks.) Are Vegetation <u>No</u> , Soil <u>No</u> , or Hydrology <u>No</u> significantly disturbed? Are "Normal Circumstances" present? Yes <u>×</u> No <u></u> Are Vegetation <u>No</u> , Soil <u>No</u> , or Hydrology <u>No</u> naturally problematic? (If needed, explain any answers in Remarks.)					
Hydrophytic Vegetation Present? Yes No Hydric Soil Present? Yes No Wetland Hydrology Present? Yes No	X Is the Sampled Area X within a Wetland?				

Remarks:

Non-jurisdictional.

	Absolute	Dominant	Indicator	Dominance Test worksheet:	
<u>Tree Stratum</u> (Use scientific names.) 1. ⁻	% Cover	Species?	Status	Number of Dominant Species That Are OBL, FACW, or FAC:0	(A)
2				Total Number of Dominant Species Across All Strata:1	(B)
4 Total Cover:				Percent of Dominant Species That Are OBL, FACW, or FAC: 0	(A/B)
Sapling/Shrub Stratum					```
1				Prevalence Index worksheet:	
2				Total % Cover of: Multiply by:	_
3				OBL species <u>5</u> x 1 = <u>5</u>	_
4				FACW species x 2 =	_
5				FAC species x 3 =	_
Total Cover:				FACU species <u>30</u> x 4 = <u>120</u>	_
Herb Stratum				UPL species x 5 =	
1. Mesembryanthemum nodiflorum	30	Yes	FACU	Column Totals: 35 (A) 125	(B)
2. Sarcocornia pacifica	5	No	OBL		_ (=)
3.				Prevalence Index = B/A = 3.57	_
4.				Hydrophytic Vegetation Indicators:	
5			·	Dominance Test is >50%	
6				Prevalence Index is ≤3.0 ¹	
0		<u> </u>		Morphological Adaptations ¹ (Provide support	ina
<i>1</i>	<u> </u>			data in Remarks or on a separate sheet)	9
8	25%			Problematic Hydrophytic Vegetation ¹ (Explain	n)
Weedy Vine Stratum	3370				,
				¹ Indicators of hydric soil and wetland hydrology m	nust
1				be present.	1451
2					
Total Cover:				Hydrophytic Vegetation	
% Bare Ground in Herb Stratum <u>65%</u> % Cover	of Biotic C	rust		Present? Yes <u>No X</u>	
Remarks:					
Hydrophytic vegetation not dominant.					

Profile Des	cription: (Describe	to the depth	needed to docur	ment the indic	ator or	confirm	n the absence of in	dicator	s.)			
Depth	Matrix		Redo	x Features	1	. 2						
(inches)	Color (moist)		Color (moist)	<u> % </u>	/pe	Loc	lexture Remarks					
0-7	1.51K 3/3							Sandy Ioan				
8-12	7.5YR 4/1			<u> </u>				Silty clay				
							·					
	<u> </u>					<u> </u>	·					
1 Turnet C=C	Concentration D-Dan	lation DM-D	aduard Matrix	² Leastion: DL	Doro	Lining D		-Matrix				
Hydric Soil	Indicators: (Applic	able to all L	RRs unless other	rwise noted)	-Pore	Lining, r	Indicators for F	roblem	natic Hydr	ic Soils ³		
Histoso			Sandy Red	ov (S5)			1 cm Muck					
Histic E	Epipedon (A2)		Stripped Ma	atrix (S6)			2 cm Muck (A10) (LRR B)					
Black H	Histic (A3)		Loamy Muc	ky Mineral (F1)		Reduced Vertic (F18)					
 Hydrog	en Sulfide (A4)		Loamy Gley	ed Matrix (F2))		Red Parent Material (TF2)					
Stratifie	ed Layers (A5) (LRR C	;)	Depleted M	atrix (F3)			Other (Explain in Remarks)					
1 cm M	luck (A9) (LRR D)		Redox Dark	Surface (F6)								
Deplete	ed Below Dark Surface	e (A11)	Depleted D	ark Surface (F7	7)							
Thick D	Dark Surface (A12)		Redox Dep	ressions (F8)								
Sandy	Mucky Mineral (S1)		Vernal Pool	s (F9)			³ Indicators of hy	drophyt	ic vegetati	on and		
Sandy	Gleyed Matrix (S4)						wetland hydr	ology m	iust be pre	esent.		
Restrictive	Layer (if present):											
Туре:												
Depth (ir	nches):						Hydric Soil Pres	ent?	Yes	No		
Remarks:												
Hydric coil	not procont											
i iyunc soli	not present.											

Wetland Hydrology Indicators:	Secondary Indicators (2 or more required)
Primary Indicators (any one indicator is sufficient)	Water Marks (B1) (Riverine)
Surface Water (A1) Salt Crust (B11)	Sediment Deposits (B2) (Riverine)
High Water Table (A2) Biotic Crust (B12)	Drift Deposits (B3) (Riverine)
Saturation (A3) Aquatic Invertebrates (B13)	Drainage Patterns (B10)
Water Marks (B1) (Nonriverine) Hydrogen Sulfide Odor (C1)	Dry-Season Water Table (C2)
Sediment Deposits (B2) (Nonriverine) Oxidized Rhizospheres along Livit	ng Roots (C3) Thin Muck Surface (C7)
Drift Deposits (B3) (Nonriverine) Presence of Reduced Iron (C4)	Crayfish Burrows (C8)
Surface Soil Cracks (B6) Recent Iron Reduction in Plowed	Soils (C6) Saturation Visible on Aerial Imagery (C9)
Inundation Visible on Aerial Imagery (B7) Other (Explain in Remarks)	Shallow Aquitard (D3)
Water-Stained Leaves (B9)	FAC-Neutral Test (D5)
Field Observations:	
Surface Water Present? Yes No Depth (inches):	
Water Table Present? Yes No Depth (inches):	
Saturation Present? Yes No Depth (inches): (includes capillary fringe)	Wetland Hydrology Present? Yes No
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspec	tions), if available:
Remarks:	
Hydrologic indicators not present	

Project/Site: Pond 20	City/County: Imperial Beach/San Diego Sampling Date: 7/7/08						
Applicant/Owner: Port of San Diego	State: CA Sampling Point: DP65/PP65						
Investigator(s): Rebecca Erickson/Brad Kelly	Section, Township, Range: S20; T18S; R2W						
Landform (hillslope, terrace, etc.): flat salt marsh	Local relief (concave, convex, none): none Slope (%): 0%						
Subregion (LRR): C	Lat: 6298199.82981 Long: 1794457.87543 Datum: NAD83						
Soil Map Unit Name: Huerhuero-Urban land complex	NWI classification:						
Are climatic / hydrologic conditions on the site typical for this time of year? Yes <u>×</u> No (If no, explain in Remarks.)							
Are Vegetation <u>No</u> , Soil <u>No</u> , or Hydrology <u>No</u> sigr	ificantly disturbed? Are "Normal Circumstances" present? Yes <u>×</u> No						
Are Vegetation <u>No</u> , Soil <u>No</u> , or Hydrology <u>No</u> nate	urally problematic? (If needed, explain any answers in Remarks.)						
SUMMARY OF FINDINGS – Attach site map sh	owing sampling point locations, transects, important features, etc.						
Hydrophytic Vegetation Present? Yes X No Hydric Soil Present? Yes X No Wetland Hydrology Present? Yes X No	─────────────────────────────────────						

Remarks:

ACOE/CCC jurisdictional.

	Absolute	Dominant	Indicator	Dominance Test worksheet:	
<u>Tree Stratum</u> (Use scientific names.) 1. <u>-</u>	% Cover	Species?	Status	Number of Dominant Species That Are OBL, FACW, or FAC: (A	()
2				Total Number of Dominant	
3				Species Across All Strata: (B	3)
4				Denote (Denote al Oceanie)	
Total Cover:				That Are OBL EACW or EAC 100 (A	(R)
Sapling/Shrub Stratum					<i>uD</i>)
1				Prevalence Index worksheet:	
2				Total % Cover of: Multiply by:	
3				OBL species <u>80</u> x 1 = <u>80</u>	
4.				FACW species20 x 2 =40	
5.				FAC species x 3 =	
Total Cover:				FACU species x 4 =	
Herb Stratum				UPL species x 5 =	
1. Batis maritima	50	Yes	OBL	Column Totals: 100 (A) 120 (B)
_{2.} Sarcocornia pacifica	30	Yes	OBL		0)
_{3.} Frankenia salina	20	No	FACW	Prevalence Index = B/A =1.2	
4				Hydrophytic Vegetation Indicators:	
5.				X Dominance Test is >50%	
6.				× Prevalence Index is $\leq 3.0^1$	
7.				Morphological Adaptations ¹ (Provide supporting	J
8				data in Remarks or on a separate sheet)	
Total Cover	100%			Problematic Hydrophytic Vegetation ¹ (Explain)	
Woody Vine Stratum					
1				¹ Indicators of hydric soil and wetland hydrology mus	st
2.				be present.	
Total Cover:				Hydrophytic	
% Bare Ground in Herb Stratum0%	of Biotic C	rust		Present? Yes X No	
Remarks:					
DB65 located in coastal salt marsh . Hydrophytic yog	otation do	minant			
Di us locateu in coastal sait marsh. Trydrophytic veg		minant.			

Depth	Matrix		Redo	x Features	5					
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks		
0-12	2.5Y 3/2							Silty clay		
						<u> </u>				
					<u> </u>					
							<u> </u>			
		·		2						
Type: C=	Concentration, D=Depl	etion, RM=	Reduced Matrix.	Location	: PL=Por	e Lining, F	RC=Root Channel, M	I=Matrix.		
lydric So	il Indicators: (Applica	able to all L	RRS, unless othe	rwise note	ed.)		Indicators for P	roblematic Hydric Soils":		
Histos	ol (A1)		Sandy Red	ox (S5)			1 cm Muck	(A9) (LRR C)		
Histic	Epipedon (A2)		Stripped Ma	atrix (S6)			2 cm Muck (A10) (LRR B)			
Black	Histic (A3)		Loamy Muc	ky Minera	I (F1)		Reduced Vertic (F18)			
X Hydro	gen Sulfide (A4)		Loamy Gle	ed Matrix	(F2)		Red Parent Material (TF2)			
Stratifi	ed Layers (A5) (LRR C	;)	Depleted M	atrix (F3)			Other (Explain in Remarks)			
1 cm N	Muck (A9) (LRR D)	()	Redox Darl	Surface (F6)					
	ted Below Dark Surface	e (A11)	Depleted D	ark Surfac	e (⊢7)					
	Dark Surface (A12)		Redox Dep	ressions (i	-8)		3 mail: a stand of here			
Sandy	Wucky Mineral (S1)		vernal Poo	IS (F9)			Indicators of ny	arophytic vegetation and		
Sandy							wetiand hydr	biogy must be present.		
restrictive	e Layer (il present):									
Type:								V		
Depth (inches):						Hydric Soil Pres	ent? Yes <u> </u>		

Wetland Hydrology Indicato	rs:			Secondary Indicators (2 or more required)
Primary Indicators (any one in	idicator is s	ufficient	t)	Water Marks (B1) (Riverine)
Surface Water (A1)			Salt Crust (B11)	Sediment Deposits (B2) (Riverine)
High Water Table (A2)			Biotic Crust (B12)	Drift Deposits (B3) (Riverine)
Saturation (A3)			Aquatic Invertebrates (B13)	Drainage Patterns (B10)
Water Marks (B1) (Nonri	verine)		X Hydrogen Sulfide Odor (C1)	Dry-Season Water Table (C2)
Sediment Deposits (B2) (Nonriverin	e)	Oxidized Rhizospheres along Livir	ving Roots (C3) Thin Muck Surface (C7)
Drift Deposits (B3) (Nonr	iverine)	-)	Presence of Reduced Iron (C4)	Cravfish Burrows (C8)
Surface Soil Cracks (B6)	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		Recent Iron Reduction in Plowed 5	Soils (C6) Saturation Visible on Aerial Imagery (C9)
Inundation Visible on Aer	ial Imagery	(B7)	Other (Explain in Remarks)	Shallow Aquitard (D3)
Water-Stained Leaves (B	9)	()		FAC-Neutral Test (D5)
Field Observations:	- /			
Surface Water Present?	Yes	No	Depth (inches):	
Water Table Present?	Yes	No	Depth (inches):	
Saturation Present? (includes capillary fringe)	Yes	_ No _	Depth (inches):	Wetland Hydrology Present? Yes <u>X</u> No
Describe Recorded Data (stre	am gauge,	monitor	ring well, aerial photos, previous inspect	ctions), if available:
Remarks:				
2 inches of standing water	Hydrology	v proce	ant	
2 incres of standing water.	Tyurolog	y prese	211.	

Project/Site: Pond 20	City/County: Imperial Beach/San Diego Sampling Date: 7/7/08
Applicant/Owner: Port of San Diego	State: CA Sampling Point: DP66/PP66
Investigator(s): Rebecca Erickson/Brad Kelly	Section, Township, Range: S20; T18S; R2W
Landform (hillslope, terrace, etc.): bank slope	Local relief (concave, convex, none): <u>CONVEX</u> Slope (%): <u>45%</u>
Subregion (LRR): C	298205.48471 Long: 1794468.33033 Datum: NAD83
Soil Map Unit Name: Huerhuero-Urban land complex	NWI classification: Upland
Are climatic / hydrologic conditions on the site typical for this time of Are Vegetation <u>No</u> , Soil <u>No</u> , or Hydrology <u>No</u> significant Are Vegetation <u>No</u> , Soil <u>No</u> , or Hydrology <u>No</u> naturally p	year? Yes X No (If no, explain in Remarks.) ntly disturbed? Are "Normal Circumstances" present? Yes X problematic? (If needed, explain any answers in Remarks.)
SUMMARY OF FINDINGS – Attach site map showin	ng sampling point locations, transects, important features, etc
Hydrophytic Vegetation Present? Yes No Hydric Soil Present? Yes No Wetland Hydrology Present? Yes No	X Is the Sampled Area X within a Wetland? Yes NoX

Remarks:

Non-jurisdictional.

	Absolute	Dominant	Indicator	Dominance Test worksheet:
<u>Tree Stratum</u> (Use scientific names.) 1. <u>-</u>	<u>% Cover</u>	Species?	Status	Number of Dominant Species That Are OBL, FACW, or FAC:0 (A)
2.				
3.				I otal Number of Dominant Species Across All Strata: 1 (B)
4				
Total Cover			·	Percent of Dominant Species
Sapling/Shrub Stratum				That Are OBL, FACW, or FAC: (A/B)
1				Prevalence Index worksheet:
2.				Total % Cover of: Multiply by:
3				OBL species 10 $x_1 = 10$
۰				EACW species $5 \times 2 = 10$
4	·		·	
5				EACU species $60 \times 4 = 240$
Herb Stratum				
1 Atriplex polycarpa	60	Yes	FACU	$\begin{array}{c} \text{OPL species} \\ \text{OPL species} \\ \hline 75 \\ \text{(a)} \\ \hline 260 \\ \text{(b)} \\ \hline \end{array}$
2 Arthrocnermum subterminale	5	No	OBL	Column Totals: $(A) $ (B)
3 Frankenia salina	5	No	FACW	Prevalence Index = B/A =3.46
A Sarcocornia pacifica	5	No	OBL	Hydrophytic Vegetation Indicators:
5			·	Dominance Test is >50%
6.				Prevalence Index is ≤3.0 ¹
7	·			Morphological Adaptations ¹ (Provide supporting
7	·			data in Remarks or on a separate sheet)
8	75%		<u> </u>	Problematic Hydrophytic Vegetation ¹ (Explain)
Woody Vine Stratum	1070			
1 -				¹ Indicators of hydric soil and wetland hydrology must
1	·		<u> </u>	be present.
Z	:			Hydrophytic
% Bare Ground in Herb Stratum 25% % Cover	of Biotic C	rust		Vegetation Present? Yes No X
Remarks:				
Normania.				
Hydrophytic vegetation not dominant.				

Profile Des	cription: (Describe t	o the depth i	needed to docur	nent the i	ndicator o	or confirm	n the absence of indic	ators.)			
Depth	Matrix		Redo	x Features	3						
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	<u>c² Texture Remarks</u>				
0-12	7.5YR 3/3							Sand	ly clay		
		·					·				
							·				
		· · · · · · · · · · · · · · · · · · ·		·							
				·							
	. <u> </u>										
¹ Type: C=C	oncentration, D=Deple	etion, RM=Re	educed Matrix.	² Location	: PL=Pore	e Lining, R	RC=Root Channel, M=N	latrix.			
Hydric Soil	Indicators: (Applica	ble to all LR	Rs, unless othe	rwise note	ed.)		Indicators for Pro	blematic Hydri	ic Soils ³ :		
<u> </u>	(A1)		Sandy Redox (S5)				1 cm Muck (A9) (LRR C)				
Histic E	pipedon (A2)		Stripped Matrix (S6)				2 cm Muck (A10) (LRR B)				
Black H	istic (A3)		Loamy Mucky Mineral (F1)				Reduced Vertic (F18)				
Hydroge	en Sulfide (A4)		Loamy Gleyed Matrix (F2)				Red Parent Material (TF2)				
Stratifie	d Layers (A5) (LRR C)	Depleted Matrix (F3)				Other (Explain in Remarks)				
1 cm Mi	uck (A9) (LRR D)		Redox Dark	Surface (F6)						
Deplete	d Below Dark Surface	(A11)	Depleted Date	ark Surfac	e (F7)						
Thick D	ark Surface (A12)		Redox Depressions (F8)				<u>^</u>				
Sandy M	Aucky Mineral (S1)		Vernal Pools (F9)				³ Indicators of hydrophytic vegetation and				
Sandy C	Gleyed Matrix (S4)						wetland hydrolo	gy must be pre	sent.		
Restrictive	Layer (if present):										
Type:			_								
Depth (in	ches):						Hydric Soil Presen	t? Yes	No		
Remarks:											
No hudrio or	al procent										
NO HYUNC SC	bil present.										

Wetland Hydrology Indicato	rs:				Secondary Indicators (2 or more required)		
Primary Indicators (any one in	dicator is s	ufficient)			Water Marks (B1) (Riverine)		
Surface Water (A1)			Salt Crust (B11)		Sediment Deposits (B2) (Riverine)		
High Water Table (A2)			Biotic Crust (B12)		Drift Deposits (B3) (Riverine)		
Saturation (A3)			_ Aquatic Invertebrates (B13)		Drainage Patterns (B10)		
Water Marks (B1) (Nonri	verine)	_	Hydrogen Sulfide Odor (C1)		Dry-Season Water Table (C2)		
Sediment Deposits (B2) (Nonriverin	e)	Oxidized Rhizospheres along Liv	ing Roots (C3)	Thin Muck Surface (C7)		
Drift Deposits (B3) (Nonr	i verine)	_	Presence of Reduced Iron (C4)		Crayfish Burrows (C8)		
Surface Soil Cracks (B6)	Surface Soil Cracks (B6) Recent Iron Reduction in Plowed Soils (C6)				Saturation Visible on Aerial Imagery (C9)		
Inundation Visible on Aerial Imagery (B7) Other (Explain in Remarks)					Shallow Aquitard (D3)		
Water-Stained Leaves (B	9)				FAC-Neutral Test (D5)		
Field Observations:							
Surface Water Present?	Yes	No	Depth (inches):				
Water Table Present?	Yes	_ No	Depth (inches):				
Saturation Present? (includes capillary fringe)	Yes	No	Depth (inches):	Wetland Hy	drology Present? Yes NoX		
Describe Recorded Data (stre	am gauge,	monitoring	g well, aerial photos, previous inspe	ctions), if availa	ble:		
Remarks:							
DP66 located on bank of be	rm. Slope	e is abou	t 45%. No hydrology present.				

Project/Site: Pond 20	City/County: Imperial Beach/San Diego Sampling Date: 7/7/08
Applicant/Owner: Port of San Diego	State: CA Sampling Point: DP67/PP67
Investigator(s): Rebecca Erickson/Brad Kelly	Section, Township, Range: S20; T18S; R2W
Landform (hillslope, terrace, etc.): flat upland	Local relief (concave, convex, none): Concave Slope (%): 0%
Subregion (LRR): C	3298126.26031 Long: 1794486.43696 Datum: NAD83
Soil Map Unit Name: Huerhuero-Urban land complex	NWI classification: Upland
Are climatic / hydrologic conditions on the site typical for this time of Are Vegetation <u>No</u> , Soil <u>No</u> , or Hydrology <u>No</u> significar Are Vegetation <u>No</u> , Soil <u>No</u> , or Hydrology <u>No</u> naturally SUMMARY OF FINDINGS – Attach site map showi	i year? Yes X No (If no, explain in Remarks.) ntly disturbed? Are "Normal Circumstances" present? Yes X No problematic? (If needed, explain any answers in Remarks.) ing sampling point locations. transects. important features. etc.
Hydrophytic Vegetation Present? Yes No Hydric Soil Present? Yes No Wetland Hydrology Present? Yes No	X Is the Sampled Area X within a Wetland?

Remarks:

Non-jurisdictional.

	Absolute	Dominant	Indicator	Dominance Test worksheet:
<u>Tree Stratum</u> (Use scientific names.) 1. <u>-</u>	<u>% Cover</u>	<u>Species?</u>	Status	Number of Dominant Species That Are OBL, FACW, or FAC:0 (A)
2				Total Number of Dominant Species Across All Strata:1(B)
4				
Total Cover: Sapling/Shrub Stratum	. <u> </u>			That Are OBL, FACW, or FAC:0 (A/B)
1				Prevalence Index worksheet:
2			·	Total % Cover of: Multiply by:
3				OBI species x 1 =
3			·	
4			·	
5			·	$\frac{1}{100} = \frac{1}{100} = \frac{1}$
Herb Stratum				$\frac{10}{10} \times 5 = 50$
Atriplex polycarpa	15	Yes	FACU	$\begin{array}{c} \text{OPL species} \\ \text{OPL species} \\ \text{25} \\ \text{(a)} \\ 110 \\ \text{(b)} \end{array}$
2 Glebionis coronarium	10	No	UPL	Column Totals: 20 (A) 10 (B)
3				Prevalence Index = $B/A = 4.4$
۵			·	Hydrophytic Vegetation Indicators:
۲			·	Dominance Test is >50%
5				$\frac{1}{2} = \frac{1}{2} $
0			·	Morphological Adaptations ¹ (Provide supporting
<i>I</i>			<u> </u>	data in Remarks or on a separate sheet)
8	25%		·	Problematic Hydrophytic Vegetation ¹ (Explain)
Weedy Vine Stratum	23 /0			
				¹ Indicators of hydric soil and wetland hydrology must
l			·	be present.
2			·	I hadrow hat the
I otal Cover:				Vegetation
% Bare Ground in Herb Stratum 75% % Cover	of Biotic C	rust		Present? Yes No X
Remarks:				
Hydrophytic vegetation not present.				

Profile Desc	cription: (Describe to	o the depth ne	eeded to docu	ment the in	ndicator	or confirn	n the absence of indi	icators.)			
Depth	Matrix	0/	Redo	x Features	; T	1 2	Tartan	D			
<u>(incnes)</u> 0-12	25VR 3/3	<u>%</u> (Joior (moist)	<u>%</u>	Type	LOC	Remarks				
Type: C=C	oncentration, D=Deple	etion, RM=Rec	luced Matrix. s. unless othe	² Location:		e Lining, F	C=Root Channel, M=	Matrix.	dric Soils ³ :		
Histosol	(A1)		Sandy Red	ox (S5)	, ui)		1 cm Muck (A	(LRR C)			
Histic Ep	pipedon (A2)	•	Stripped Matrix (S6)				2 cm Muck (A10) (LRR B)				
Black Hi	istic (A3)	-	Loamy Muc	ky Mineral	(F1)		Reduced Ver	tic (F18)			
Hydroge	en Sulfide (A4)		Loamy Gle	yed Matrix	(F2)		Red Parent M	laterial (TF2)			
Stratified	d Layers (A5) (LRR C)	Depleted Matrix (F3)				Other (Explain in Remarks)				
1 cm Mu	uck (A9) (LRR D)		Redox Dark	surface (F6)						
Deplete	d Below Dark Surface	(A11)	Depleted D	ark Surface	e (F7)						
Thick Da	ark Surface (A12)	<u>.</u>	Redox Dep	ressions (F	8)						
Sandy M	/lucky Mineral (S1)		Vernal Poo	ls (F9)			³ Indicators of hydrophytic vegetation and				
Sandy G	Eleyed Matrix (S4)						wetland hydrol	ogy must be pr	resent.		
Restrictive	Layer (if present):										
Туре:											
Depth (in	ches):		-				Hydric Soil Prese	nt? Yes	No	<u>×</u>	
Remarks:											
No hydric so	bil present.										
HYDROLO	GY										

Wetland Hydrology Indicate	ors:				Secondary Indicators (2 or more required)
Primary Indicators (any one in	<u>idicator is s</u>	ufficient)		Water Marks (B1) (Riverine)
Surface Water (A1)			Salt Crust (B11)		Sediment Deposits (B2) (Riverine)
High Water Table (A2)			Biotic Crust (B12)		Drift Deposits (B3) (Riverine)
Saturation (A3)			Aquatic Invertebrates (B13)		Drainage Patterns (B10)
Water Marks (B1) (Nonri	verine)		Hydrogen Sulfide Odor (C1)		Dry-Season Water Table (C2)
Sediment Deposits (B2)	Nonriverin	e)	Oxidized Rhizospheres along Liv	ring Roots (C3)	Thin Muck Surface (C7)
Drift Deposits (B3) (Nonr	iverine)		Presence of Reduced Iron (C4)		Crayfish Burrows (C8)
Surface Soil Cracks (B6)			Recent Iron Reduction in Plowed	l Soils (C6)	Saturation Visible on Aerial Imagery (C9)
Inundation Visible on Aerial Imagery (B7) Other (Explain in Remar			Other (Explain in Remarks)		Shallow Aquitard (D3)
Water-Stained Leaves (B	,9)				FAC-Neutral Test (D5)
Field Observations:					
Surface Water Present?	Yes	_ No _	Depth (inches):		
Water Table Present?	Yes	_ No _	Depth (inches):		
Saturation Present? (includes capillary fringe)	Yes	_ No _	Depth (inches):	Wetland Hy	drology Present? Yes NoX
Describe Recorded Data (stre	am gauge,	monitor	ing well, aerial photos, previous inspe	ctions), if availa	able:
Remarks:					
DP67 at top of the fill slope	No hydri	n vool	resent		
	. No Hyurc	nogy p	resent.		

Project/Site: Pond 20	City/County: Imperial Beach/San Diego Sampling Date: 7/7/08					
Applicant/Owner: Port of San Diego	State: CA Sampling Point: DP68/PP68					
Investigator(s): Rebecca Erickson/Brad Kelly	Section, Township, Range: S20; T18S; R2W					
Landform (hillslope, terrace, etc.): bank slope	Local relief (concave, convex, none): <u>Concave</u> Slope (%): <u>0%</u>					
Subregion (LRR): C	_ Lat: <u>6300754.84457</u> Long: <u>1794572.91687</u> Datum: <u>NAD83</u>					
Soil Map Unit Name: Huerhuero loam	NWI classification:					
Are climatic / hydrologic conditions on the site typical for this time of year? Yes No (If no, explain in Remarks.) Are VegetationNo, SoilNo, or HydrologyNo significantly disturbed? Are "Normal Circumstances" present? Yes No Are VegetationNo, SoilNo, or HydrologyNo naturally problematic? (If needed, explain any answers in Remarks.) SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, e						
Hydrophytic Vegetation Present? Yes X No Hydric Soil Present? Yes No Wetland Hydrology Present? Yes No Remarks: DP68 edge of Sarcocornia pacifica on east side of creation	0 X Is the Sampled Area 0 X within a Wetland? Yes NoX eek; CCC/CDFG jurisdictional only to east side of bank 7.5 from center of channel.					

	Absolute	Dominant	Indicator	Dominance Test worksheet:
<u>Tree Stratum</u> (Use scientific names.) 1. [_]	% Cover	Species?	Status	Number of Dominant Species That Are OBL, FACW, or FAC:1 (A)
2				Total Number of Dominant
3				Species Across All Strata: (B)
4				Percent of Deminant Species
Total Cover:				That Are OBL, FACW, or FAC: 100 (A/B)
Sapling/Shrub Stratum				
1				Prevalence Index worksheet:
2	<u> </u>			Total % Cover of: Multiply by:
3				OBL species x 1 =0
4				FACW species x 2 =
5				FAC species x 3 =
Total Cover:				FACU species30 x 4 =120
Herb Stratum	50	Vee		UPL species10 x 5 =50
1. Sarcocornia pacifica	50	Yes	OBL	Column Totals: <u>90</u> (A) <u>220</u> (B)
2. Saisola tragus	20	NO	FACU	2.44
3. Mesembryanthemum nodiflorum	10	No	FACU	Prevalence Index = B/A =2.44
4. Glebionis coronarium	10	No	UPL	Hydrophytic Vegetation Indicators:
5				X Dominance Test is >50%
6				\underline{X} Prevalence Index is ≤3.0 ¹
7				Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)
8	00%			Problematic Hydrophytic Vegetation ¹ (Explain)
Total Cover:	90 /8			
				¹ Indicators of hydric soil and wetland hydrology must
1				be present.
ZTotal Cover:				Hydrophytic
% Bare Ground in Herb Stratum10% % Cover	of Biotic C	ust		Vegetation Present? Yes <u>X</u> No
Remarks:				
Hydrophytic vegetation present.				

Depth	Matrix Redox Features										
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Rema	rks		
-12	2.5YR 3/2							Sa	ndy loam		
ype: C=0	Concentration, D=Depl	etion, RM=	Reduced Matrix.	² Location	: PL=Por	e Lining, R	RC=Root Channel, M=	Matrix.			
dric Soi	I Indicators: (Applica	able to all	LRRs, unless othe	rwise note	ed.)		Indicators for Pro	blematic Hy	dric Soils ³ :		
Histoso	ol (A1)		Sandy Red	ox (S5)			1 cm Muck (A	9) (LRR C)			
Histic E	Epipedon (A2)		Stripped M	atrix (S6)			2 cm Muck (A10) (LRR B)				
Black H	Histic (A3)		Loamy Mu	ky Minera	l (F1)		Reduced Vertic (F18)				
- Hvdroc	aen Sulfide (A4)		Loamv Gle	ved Matrix	(F2)	Red Parent Material (TF2)					
Stratifie	ed Lavers (A5) (LRR C	:)	Depleted M	latrix (F3)	()		Other (Explain in Remarks)				
1 cm M	luck (A9) (I RR D)	/	Bedox Dar	k Surface (F6)		<u> </u>				
_ Toni i	ed Below Dark Surface	(411)	Depleted D	ark Surfac	o (F7)						
_ Depiet	Corle Surfage (A12)	; (,,,,)	Depleted D		= (1 7)						
_ THICK L	Musky Mineral (S1)				-0)		³ Indiactors of budg	anhutia varat	tion and		
_ Sandy	Nucky Mineral (ST)		vernai Poo	Vernal Pools (F9)				Indicators of hydrophytic vegetation and			
_ Sandy	Gleyed Matrix (54)							ogy must be p	resent.		
Tvpe:											
Depth (ii	nches):						Hydric Soil Preser	nt? Yes	No	;	
emarks:											
mottles.	. Hydric soil not pre	sent.									

Wetland Hydrology Indica	tors:				Secondary Indicators (2 or more required)		
Primary Indicators (any one	indicator is s	ufficient)			Water Marks (B1) (Riverine)		
Surface Water (A1)		-	Salt Crust (B11)		Sediment Deposits (B2) (Riverine)		
High Water Table (A2)		_	Biotic Crust (B12)		Drift Deposits (B3) (Riverine)		
Saturation (A3)		_	Aquatic Invertebrates (B13)		Drainage Patterns (B10)		
Water Marks (B1) (Non	riverine)	_	Hydrogen Sulfide Odor (C1)		Dry-Season Water Table (C2)		
Sediment Deposits (B2)	(Nonriverir	ie) _	Oxidized Rhizospheres along Livi	ing Roots (C3)	Thin Muck Surface (C7)		
Drift Deposits (B3) (Nor	vriverine)	-	Presence of Reduced Iron (C4)		Crayfish Burrows (C8)		
Surface Soil Cracks (B6)	;)	-	Recent Iron Reduction in Plowed	Soils (C6)	Saturation Visible on Aerial Imagery (C9)		
Inundation Visible on Aerial Imagery (B7)			Other (Explain in Remarks)		Shallow Aquitard (D3)		
Water-Stained Leaves (B9)				FAC-Neutral Test (D5)		
Field Observations:							
Surface Water Present?	Yes	No	Depth (inches):				
Water Table Present?	Yes	No	Depth (inches):				
Saturation Present? (includes capillary fringe)	Yes	No	Depth (inches):	Wetland Hye	drology Present? Yes NoX		
Describe Recorded Data (st	ream gauge,	monitorin	ng well, aerial photos, previous inspec	ctions), if availa	ble:		
Remarks:							
Hydrology not present.							

Project/Site: Pond 20	_ City/County: Imperial Beach/San Diego Sampling Date: 7/7/08
Applicant/Owner: Port of San Diego	State: CA Sampling Point: DP69/PP69
Investigator(s): Rebecca Erickson/Brad Kelly	_ Section, Township, Range: S20; T18S; R2W
Landform (hillslope, terrace, etc.): bank slope	Local relief (concave, convex, none): <u>CONVEX</u> Slope (%): <u>0%</u>
Subregion (LRR): C	300757.44453 Long: 1794575.81922 Datum: NAD83
Soil Map Unit Name: Huerhuero loam	NWI classification:
Are climatic / hydrologic conditions on the site typical for this time of	year? Yes <u>X</u> No (If no, explain in Remarks.)
Are Vegetation <u>No</u> , Soil <u>No</u> , or Hydrology <u>No</u> significar	tly disturbed? Are "Normal Circumstances" present? Yes <u>X</u> No
Are Vegetation <u>No</u> , Soil <u>No</u> , or Hydrology <u>No</u> naturally	problematic? (If needed, explain any answers in Remarks.)
SUMMARY OF FINDINGS – Attach site map showi	ng sampling point locations, transects, important features, etc.
Hydrophytic Vegetation Present? Yes X No	
Hydric Soil Present? Yes No	Is the Sampled Area
Wetland Hydrology Present? Yes No?	
Remarks:	
CCC/CDFG jurisdictional only.	

	Absolute	Dominant	Indicator	Dominance Test worksheet:
Tree Stratum (Use scientific names.)	% Cover	Species?	Status	Number of Dominant Species
1	·		·	That Are OBL, FACW, or FAC: (A)
2			·	Total Number of Dominant
3			<u> </u>	Species Across All Strata: 1 (B)
4				Percent of Dominant Species
Total Cover:				That Are OBL, FACW, or FAC: 100 (A/B)
Sapling/Shrub Stratum				
1			·	Prevalence Index worksheet:
2				Total % Cover of: Multiply by:
3				OBL species x 1 =
4				FACW species <u>10</u> x 2 = <u>20</u>
5				FAC species <u>15</u> x 3 = <u>45</u>
Total Cover:				FACU species x 4 =
Herb Stratum				UPL species x 5 =
1. Sarcocornia pacifica	75	Yes	OBL	Column Totals: 100 (A) 140 (B)
2. Frankenia salina	10	No	FACW	
3. Mesembryanthemum nodiflorum	10	No	FACU	Prevalence Index = B/A =1.4
_{4.} Salsola tragus	5	No	FACU	Hydrophytic Vegetation Indicators:
5. Glebionis coronarium	<1	No	UPL	X Dominance Test is >50%
6			·	\times Prevalence Index is ≤3.0 ¹
7				Morphological Adaptations ¹ (Provide supporting
8				data in Remarks or on a separate sheet)
o	100%		·	Problematic Hydrophytic Vegetation ¹ (Explain)
Woody Vine Stratum				
1 -				¹ Indicators of hydric soil and wetland hydrology must
2	······································			be present.
Total Cover:				Hydrophytic
% Bare Ground in Herb Stratum0% % Cover	of Biotic Ci	rust		Vegetation Present? Yes X No
Remarks:				
Hydrophytic vegetation present.				

Profile Des	cription: (Describe t	o the dept	h needed to docu	ment the i	ndicator	or confirm	the absence of inc	licators.)		
Depth	Matrix		Redo	ox Features	S					
(inches)	Color (moist)	%	Color (moist)	%	Type'	Loc ²	Texture	Rema	rks	
0-12	7.5YR 3/2							Sa	ndy clay loan	n
							· ·			
					<u> </u>					
							· ·			
	·									
	· · · · · · · · · · · · · · · · · · ·									
¹ Type: C=C	concentration, D=Deple	etion, RM=	Reduced Matrix.	² Location	: PL=Por	e Lining, R	C=Root Channel, M	=Matrix.		
Hydric Soil	Indicators: (Applica	ble to all L	_RRs, unless othe	rwise note	ed.)		Indicators for P	roblematic Hyd	dric Soils ³ :	
Histoso	l (A1)		Sandy Red	ox (S5)			1 cm Muck (A9) (LRR C)			
Histic E	pipedon (A2)		Stripped M	atrix (S6)			2 cm Muck (A10) (LRR B)			
Black H	listic (A3)		Loamy Muo	cky Minera	l (F1)		Reduced Vertic (F18)			
Hydrog	en Sulfide (A4)		Loamy Gle	yed Matrix	(F2)		Red Parent Material (TF2)			
<u></u> Stratifie	d Layers (A5) (LRR C)	Depleted N	latrix (F3)			Other (Expla	in in Remarks)		
1 cm M	uck (A9) (LRR D)		Redox Dar	k Surface (F6)					
Deplete	d Below Dark Surface	(A11)	Depleted D	ark Surfac	e (F7)					
Thick D	ark Surface (A12)		Redox Dep	ressions (I	-8)					
Sandy I	Mucky Mineral (S1)		Vernal Poo	ls (F9)			³ Indicators of hydrophytic vegetation and			
Sandy (Gleyed Matrix (S4)						wetland hydro	logy must be p	resent.	
Restrictive	Layer (if present):									
Туре:										
Depth (in	nches):						Hydric Soil Prese	ent? Yes	No	×
Remarks:							•			
0.40										
0-12 inches	wet but not saturate	ea. No m	otties. Hydric so	ii indicato	rs not pr	esent.				

Wetland Hydrology Indicate	ors:		Secondary Indicators (2 or more required)		
Primary Indicators (any one i	ndicator is s		Water Marks (B1) (Riverine)		
Surface Water (A1)		_	_ Salt Crust (B11)		Sediment Deposits (B2) (Riverine)
High Water Table (A2)		_	Biotic Crust (B12)		Drift Deposits (B3) (Riverine)
Saturation (A3)		_	_ Aquatic Invertebrates (B13)		Drainage Patterns (B10)
Water Marks (B1) (Nonr	iverine)	_	_ Hydrogen Sulfide Odor (C1)		Dry-Season Water Table (C2)
Sediment Deposits (B2)	(Nonriverin	e)	_ Oxidized Rhizospheres along Livi	ing Roots (C3)	Thin Muck Surface (C7)
Drift Deposits (B3) (Non	r iverine)	_	Presence of Reduced Iron (C4)		Crayfish Burrows (C8)
Surface Soil Cracks (B6) Recent Iron Reduction in Plowed Soi				Soils (C6)	Saturation Visible on Aerial Imagery (C9)
Inundation Visible on Aerial Imagery (B7) Other (Explain in Remarks)					Shallow Aquitard (D3)
Water-Stained Leaves (E	39)				FAC-Neutral Test (D5)
Field Observations:					
Surface Water Present?	Yes	No	Depth (inches):		
Water Table Present?	Yes	No	Depth (inches):		
Saturation Present? Yes <u>No</u> Depth (inches): <u>We</u> (includes capillary fringe)				Wetland Hy	drology Present? Yes NoX
Describe Recorded Data (stre	eam gauge,	monitoring	g well, aerial photos, previous inspec	ctions), if availa	able:
Remarks:					
DP located on bank above	creek. Hy	drologic i	ndicators not present.		

Project/Site: Pond 20	City	City/County: Imperial Beach/San Diego Sampling Date: 7/					
Applicant/Owner: Port of San Diego			State:	CA	Sampling Point: DP70/PP70		
Investigator(s): Rebecca Erickson/Brad Kelly	Sec	Section, Township, Range: S20; T18S; R2W					
Landform (hillslope, terrace, etc.): hank slope	Lo	cal relief (conca	ive, convex, none): convex	Slope (%): 0%		
Subregion (LRR): C La	at: <u>630076</u>	61.47484	Long: <u>1794</u>	566.94086	Datum: NAD83		
Soil Map Unit Name: Huerhuero Ioam			N	WI classifica	ation:		
Are climatic / hydrologic conditions on the site typical for this time Are Vegetation <u>No</u> , Soil <u>No</u> , or Hydrology <u>No</u> signifi Are Vegetation <u>No</u> , Soil <u>No</u> , or Hydrology <u>No</u> natura SUMMARY OF FINDINGS – Attach site map sho	e of year? icantly dist ally proble owing sa	Yes <u>X</u> N turbed? A matic? (ampling point	lo (If no, Are "Normal Circu If needed, explair nt locations, 1	explain in Re mstances" pr any answer ansects,	<pre>imarks.) resent? Yes X No s in Remarks.) important features, etc.</pre>		
Hydrophytic Vegetation Present? Yes X No Hydric Soil Present? Yes No No Wetland Hydrology Present? Yes X No Remarks: Image: Solution of the second		Is the Sam within a We	pled Area etland?	Yes	<u>No X</u>		

CCC/CDFG jurisdiction only.

	Absolute	Dominant	Indicator	Dominance Test worksheet:
<u>Tree Stratum</u> (Use scientific names.) 1. ⁻	<u>% Cover</u>	Species?	Status	Number of Dominant Species That Are OBL, FACW, or FAC: (A)
2				Total Number of Dominant
3				Species Across Air Strata (B)
4			<u> </u>	Percent of Dominant Species
Sapling/Shrub Stratum				That Are OBL, FACW, or FAC: (A/B)
1				Prevalence Index worksheet:
2				Total % Cover of: Multiply by:
3				OBL species 75 $x_1 = 75$
4				FACW species $\frac{25}{x^2} = \frac{50}{50}$
5			·	FAC species x 3 =
3			·	FACIL species x 4 =
Herb Stratum	·			
1. Sarcocornia pacifica	65	Yes	OBL	$\begin{array}{c} \text{Column Totals:} 100 (\text{A}) 125 (\text{B}) \end{array}$
2. Frankenia salina	25	Yes	FACW	
3. Schoenoplectus californicus	10	No	OBL	Prevalence Index = B/A =1.25
4.				Hydrophytic Vegetation Indicators:
5				X Dominance Test is >50%
6				\overline{X} Prevalence Index is $\leq 3.0^1$
7				Morphological Adaptations ¹ (Provide supporting
8				data in Remarks or on a separate sheet)
o	100%			Problematic Hydrophytic Vegetation ¹ (Explain)
Woody Vine Stratum				
1				¹ Indicators of hydric soil and wetland hydrology must
2.				be present.
Total Cover:				Hydrophytic
% Bare Ground in Herb Stratum0% % Cover	of Biotic C	rust		Present? Yes X No
Remarks:				
Hydrophytic vegetation present.				

Denth	Matrix		Pad	v Features						
(inches)	Color (moist)	%	Color (moist)	<u>% realures</u>	Tvpe ¹	Loc ²	Texture	Rema	rks	
0-12	7.5YR 3/2							ndy clay loam		
1 				2				•• • •		
Uype: C=0	Concentration, D=Depl	etion, RM=	Reduced Matrix.	Location:	PL=Pore	e Lining, R	C=Root Channel, M=	=Matrix.	tric Soils ³	
					u.)				une 3015 .	
HIStost	DI (AT) Taiaadaa (AD)		Sandy Red	IOX (55)						
HISTIC E	=pipedon (A2)		Stripped M	atrix (S6)	(54)		2 cm Muck (A10) (LRR B)			
Black H	Histic (A3)		Loamy Mu	cky Mineral	(F1)					
Hydrog	gen Sulfide (A4)		Loamy Gle	yed Matrix ((F2)		Red Parent Material (TF2)			
Stratifie	ed Layers (A5) (LRR C	;)	Depleted N	latrix (F3)			Other (Explain in Remarks)			
1 cm N	1uck (A9) (LRR D)		Redox Dar	k Surface (F	=6)					
Deplet	ed Below Dark Surface	e (A11)	Depleted D	ark Surface	e (F7)					
Thick [Dark Surface (A12)		Redox Dep	oressions (F	8)					
Sandy	Mucky Mineral (S1)		Vernal Poo	ols (F9)			³ Indicators of hydrophytic vegetation and			
Sandy	Gleyed Matrix (S4)						wetland hydro	logy must be p	resent.	
Restrictive	Exayer (if present):									
Type:										
Depth (i	nches):						Hydric Soil Prese	ent? Yes	No	
Remarks:										
L	. The state is a first for the state									
vo mottiing	j. Hydric soli indicat	ors not pr	esent.							

Wetland Hydrology Indicators:	Secondary Indicators (2 or more required)
Primary Indicators (any one indicator is sufficient)	Water Marks (B1) (Riverine)
Surface Water (A1) Salt Crust (B11)	Sediment Deposits (B2) (Riverine)
High Water Table (A2) Biotic Crust (B12)	Drift Deposits (B3) (Riverine)
× Saturation (A3) Aquatic Invertebrates (B13)	Drainage Patterns (B10)
Water Marks (B1) (Nonriverine) Hydrogen Sulfide Odor (C1)	Dry-Season Water Table (C2)
Sediment Deposits (B2) (Nonriverine) Oxidized Rhizospheres along Living	Roots (C3) Thin Muck Surface (C7)
Drift Deposits (B3) (Nonriverine) Presence of Reduced Iron (C4)	Crayfish Burrows (C8)
Surface Soil Cracks (B6) Recent Iron Reduction in Plowed So	oils (C6) Saturation Visible on Aerial Imagery (C9)
Inundation Visible on Aerial Imagery (B7) Other (Explain in Remarks)	Shallow Aquitard (D3)
Water-Stained Leaves (B9)	FAC-Neutral Test (D5)
Field Observations:	
Surface Water Present? Yes No Depth (inches):	
Water Table Present? Yes No Depth (inches):	
Saturation Present? Yes X No Depth (inches): 0-12 (includes capillary fringe)	Wetland Hydrology Present? Yes <u>X</u> No
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspection	ons), if available:
Remarks:	
DP70 on bank of creek. Hydrology present.	

Project/Site: Pond 20	_ City/County: Imperial Beach/	San Diego Sar	mpling Date: 7/7/08
Applicant/Owner: Port of San Diego		State: CA Sar	mpling Point: DP71/PP71
Investigator(s): Rebecca Erickson/Brad Kelly	_ Section, Township, Range: S2	20; T18S; R2W	
Landform (hillslope, terrace, etc.): creek bank	_ Local relief (concave, convex,	none): <u>convex</u>	Slope (%): <u>0%</u>
Subregion (LRR): C	300762.15502 Long:	1794572.88259	Datum: NAD83
Soil Map Unit Name: Huerhuero Ioam		NWI classification	n:
Are climatic / hydrologic conditions on the site typical for this tim Are Vegetation <u>No</u> , Soil <u>No</u> , or Hydrology <u>No</u> signif Are Vegetation <u>No</u> , Soil <u>No</u> , or Hydrology <u>No</u> natur SUMMARY OF FINDINGS – Attach site map sho	year? Yes <u>X</u> No <u>No</u> ly disturbed? Are "Normal problematic? (If needed, e	(If no, explain in Rema Circumstances" prese explain any answers in ons, transects, im	urks.) ent? Yes <u>×</u> No Remarks.) nportant features, etc.
Hydrophytic Vegetation Present? Yes X No Hydric Soil Present? Yes X No Wetland Hydrology Present? Yes X No Remarks:	 Is the Sampled Area within a Wetland? 	Yes X	No

ACOE jurisdiction to width of lower incised channel bottom (4 feet). CCC/CDFG jurisdictional from center of bottom channel (to 7.5 feet).

	Absolute	Dominant	Indicator	Dominance Test worksheet:
Tree Stratum (Use scientific names.)	<u>% Cover</u>	Species?	Status	Number of Dominant Species
1				That Are OBL, FACW, or FAC:3 (A)
2				Total Number of Dominant
3				Species Across All Strata: 3 (B)
4.				()
Total Cover:				Percent of Dominant Species
Sapling/Shrub Stratum				That Are OBL, FACW, or FAC:(A/B)
1				Prevalence Index worksheet:
2				Total % Cover of Multiply by
2				$\frac{1}{1} \frac{1}{1} \frac{1}$
3			<u> </u>	$\frac{30}{30} \times 2 = 60$
4				
5				FAC species x 3 =
Total Cover:				FACU species x 4 =
Herb Stratum	50	Vaa		UPL species x 5 =
				Column Totals: <u>100</u> (A) <u>130</u> (B)
2. Frankenia salina	30	Yes	FACW	4.0
3. Schoenoplectus californicus	20	Yes	OBL	Prevalence Index = B/A = 1.3
4				Hydrophytic Vegetation Indicators:
5.				X Dominance Test is >50%
6				× Prevalence Index is $\leq 3.0^1$
7				Morphological Adaptations ¹ (Provide supporting
7				data in Remarks or on a separate sheet)
8	100%			Problematic Hydrophytic Vegetation ¹ (Explain)
Total Cover:	100 /0			
				¹ Indicators of hydric soil and wetland hydrology must
1			. <u> </u>	be present.
2			. <u> </u>	
Total Cover:				Hydrophytic
% Bare Ground in Herb Stratum0% % Cover	of Biotic C	rust		Present? Yes <u>X</u> No
Remarks:				
Hydrophytic vegetation present				
riyaropriyae vegetation present.				

Profile Desc	cription: (Describe to	o the depth r	needed to docur	ment the i	ndicator	or confirm	the absence of indic	cators.)
Depth	Matrix Color (moint)	0/	Redo Color (moiot)	<u>x Features</u>	<u>5</u> Turna ¹	1.002	Taxtura	Domorko
¹ Type: C=C	oncentration, D=Deple	etion, RM=Re	duced Matrix.	² Location	: PL=Por	 e Lining, R	C=Root Channel, M=N	Natrix.
Hydric Soil	Indicators: (Applica	ble to all LR	Rs, unless othe	rwise note	ed.)		Indicators for Pro	blematic Hydric Soils ³ :
Histosol Histic E; Black Hi Hydroge Stratified 1 cm Mu Depleted Thick Da Sandy M Sandy C Restrictive I	(A1) pipedon (A2) stic (A3) en Sulfide (A4) d Layers (A5) (LRR C) uck (A9) (LRR D) d Below Dark Surface ark Surface (A12) Mucky Mineral (S1) Bleyed Matrix (S4) Layer (if present):) (A11)	 Sandy Red Stripped Ma Loamy Muc Loamy Gley Depleted M Redox Darl Depleted D Redox Dep Vernal Poo 	ox (S5) atrix (S6) oky Mineral yed Matrix (F3) < Surface (ark Surfac ressions (F ls (F9)	I (F1) (F2) F6) e (F7) F8)		 1 cm Muck (A9 2 cm Muck (A1 Reduced Vertine Red Parent Ma Other (Explain ³Indicators of hydroov wetland hydroloo 	9) (LRR C) 10) (LRR B) c (F18) aterial (TF2) in Remarks) pophytic vegetation and gy must be present.
Type: Depth (in	ches):		-				Hydric Soil Presen	t? Yes <u>X</u> No
Remarks: Assumed hy	dric.							
HYDROLO	GY							
Wetland Hy	drology Indicators:						Secondary Inc	dicators (2 or more required)

Wetland Hydrology Indicators:	Secondary indicators (2 or more required)
Primary Indicators (any one indicator is sufficient)	Water Marks (B1) (Riverine)
X Surface Water (A1) Salt Crust (B11)	Sediment Deposits (B2) (Riverine)
High Water Table (A2) Biotic Crust (B12)	Drift Deposits (B3) (Riverine)
Saturation (A3) X Aquatic Invertebrates (B13)	X Drainage Patterns (B10)
Water Marks (B1) (Nonriverine) Hydrogen Sulfide Odor (C1)	Dry-Season Water Table (C2)
Sediment Deposits (B2) (Nonriverine) Oxidized Rhizospheres along Livit	ng Roots (C3) Thin Muck Surface (C7)
Drift Deposits (B3) (Nonriverine) Presence of Reduced Iron (C4)	Crayfish Burrows (C8)
Surface Soil Cracks (B6) Recent Iron Reduction in Plowed	Soils (C6) Saturation Visible on Aerial Imagery (C9)
X Inundation Visible on Aerial Imagery (B7) Other (Explain in Remarks)	Shallow Aquitard (D3)
Water-Stained Leaves (B9)	FAC-Neutral Test (D5)
Field Observations:	
Surface Water Present? Yes X No Depth (inches): 10 "	
Water Table Present? Yes No Depth (inches):	
Saturation Present? Yes No Depth (inches): (includes capillary fringe)	Wetland Hydrology Present? Yes <u>×</u> No
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspec	tions), if available:
Remarks:	
DP71 located at edge of stream channel. Hydrology present. Standing water 7	10 inches. Width of channel is 4 feet.

Project/Site: Pond 20	City/	_{County:} Imperial B	each/San Diego	Sampling Date: 7/7/08
Applicant/Owner: Port of San Diego			State: CA	Sampling Point: DP72/PP72
Investigator(s): Rebecca Erickson/Brad Kelly	Sec	tion, Township, Ran	_{ge:} <u>S20; T18S; R2W</u>	
Landform (hillslope, terrace, etc.): creek bank	Loc	al relief (concave, co	onvex, none): <u>convex</u>	Slope (%): 0%
Subregion (LRR): C	Lat: <u>630076</u>	3.57737	Long: 1794566.3926	4 Datum: NAD83
Soil Map Unit Name: Huerhuero loam			NWI classifie	cation:
Are climatic / hydrologic conditions on the site typical for t	his time of year?	Yes X No	(If no, explain in F	Remarks.)
Are Vegetation <u>No</u> , Soil <u>No</u> , or Hydrology <u>No</u>	significantly distu	urbed? Are "N	Iormal Circumstances"	present? Yes <u>×</u> No
Are Vegetation <u>No</u> , Soil <u>No</u> , or Hydrology <u>No</u>	_naturally problen	natic? (If nee	eded, explain any answe	ers in Remarks.)
SUMMARY OF FINDINGS – Attach site ma	p showing sa	mpling point lo	cations, transects	s, important features, etc.
Hydrophytic Vegetation Present? Yes X	No	la tha Camplad	A	
Hydric Soil Present? Yes	No X	is the Sampled A	Area d2 Voc	No X
Wetland Hydrology Present? Yes X	No		u: 163	
Remarks:				
CCC/CDFG jurisdiction only.				

	Absolute	Dominant	Indicator	Dominance Test worksheet:
<u>Tree Stratum</u> (Use scientific names.) 1. <u>-</u>	% Cover	Species?	Status	Number of Dominant Species That Are OBL, FACW, or FAC:1 (A)
2				Total Number of Dominant
3				Species Across All Strata: (B)
4 Total Cover:				Percent of Dominant Species That Are OBL_EACW_or FAC: 50 (A/B)
Sapling/Shrub Stratum				
1				Prevalence Index worksheet:
2				Total % Cover of: Multiply by:
3				OBL species <u>50</u> x 1 = <u>50</u>
4.				FACW species 50 x 2 = 100
5				FAC species x 3 =
Total Cover:				FACU species x 4 =
Herb Stratum				
1. Sarcocornia pacifica	50	Yes	OBL	$\begin{array}{c} \text{Colump Totals} & 100 \\ \text{Colump Totals} & 100 \\ \text{Colump Totals} & 0 \\ \text{Cotals} & 0 \\ \text{Cotals} & 0 \\ \text{Colump Totals} & 0 \\ $
2 Frankenia salina	50	Yes	FACW	
3				Prevalence Index = B/A = 1.5
0				Hydrophytic Vegetation Indicators:
4				Dominance Test is >50%
5				\mathbf{X} Browelence index is $\leq 2.0^{1}$
6			<u> </u>	\sim Prevalence index is ≥ 5.0
7				Morphological Adaptations" (Provide supporting data in Remarks or on a senarate sheet)
8				Broblematic Hydrophytic Vegetation ¹ (Evaluin)
Total Cover: Woody Vine Stratum	100			
1 -				¹ Indicators of hydric soil and wetland hydrology must
0				be present.
2 Total Cover:				Hydrophytic
				Vegetation
% Bare Ground in Herb Stratum % Cover	of Biotic Cı	rust		Present? Yes X No
Remarks:				
Hydrophytic vegetation propert				

Depth Matrix Redox Features (inches) Color (moist) % Type' Loc² Texture Remarks 0-12 7.5YR 3/2			-								
(Indites) 20 Color (Indist) 20 Type Loc Texture Nethatis 0-12 7.5YR 3/2	Depth (inchoo)	<u>Matrix</u>	0/	Color (moint)	ox Features	S Turno ¹	1 co ²	Toxturo	Bomor	(A)	
Image: Solution of the solution	(1101105) 0-12	7 5VP 3/2	/0		/0	Type			San	dy clay loa	m
'Type: C=Concentration, D=Depletion, RM=Reduced Matrix. ?Location: PL=Pore Lining, RC=Root Channel, M=Matrix. Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Indicators for Problematic Hydric Soils ³ : Histic Epipedon (A2) Sandy Redox (S5) 1 cm Muck (A9) (LRR C) Histic Epipedon (A2) Stripped Matrix (S6) 2 cm Muck (A10) (LR B) Black Histic (A3) Loamy Mucky Mineral (F1)	0-12	7.511 3/2						·	San	uy ciay ioa	
**Type: C=Concentration, D=Depletion, RM=Reduced Matrix. **Location: PL=Pore Lining, RC=Root Channel, M=Matrix. Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Indicators for Problematic Hydric Soils*: Histosol (A1)											
'Type: C=Concentration, D=Depletion, RM=Reduced Matrix. ² Location: PL=Pore Lining, RC=Root Channel, M=Matrix. Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Indicators for Problematic Hydric Soils ³ : Histic Soil (A1) Sandy Redox (S5) 1 cm Muck (A9) (LRR C) Histic Epipedon (A2) Stripped Matrix (S6) 2 cm Muck (A10) (LRR B) Black Histic (A3) Loamy Mucky Mineral (F1) Reduced Vertic (F18) Hydrogen Sulfide (A4) Loamy Gleyed Matrix (F2) Red Parent Material (TF2) Stratified Layers (A5) (LRR C) Depleted Matrix (F3) Other (Explain in Remarks) 1 cm Muck (A9) (LRR D) Redox Dark Surface (F6) Other (Explain in Remarks) Sandy Mucky Mineral (S1) Vernal Pools (F9) ³ Indicators of hydrophytic vegetation and wetland hydrology must be present. Restrictive Layer (if present): Type: Depleted Nersent? No Remarks: Io mottles. Hydric soil not present. No Io mottles.											
¹ Type: C=Concentration, D=Depletion, RM=Reduced Matrix. ² Location: PL=Pore Lining, RC=Root Channel, M=Matrix. Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Indicators for Problematic Hydric Soils ³ : Histosol (A1) Sandy Redox (S5) 1 cm Muck (A9) (LRR C) Histic Epipedon (A2) Stripped Matrix (S6) 2 cm Muck (A10) (LRR B) Black Histic (A3) Loamy Mucky Mineral (F1) Reduced Vertic (F18) Hydrigen Sulfide (A4) Loamy Gleyed Matrix (F2) Red Parent Material (TF2) Stratified Layers (A5) (LRR C) Depleted Matrix (F3) Other (Explain in Remarks) 1 cm Muck (A9) (LRR D) Redox Dark Surface (F6) Other (Explain in Remarks) 2 Sandy Mucky Mineral (S1) Depleted Dark Surface (F7) Thick Dark Surface (A12) Redox Depressions (F8) Sandy Mucky Mineral (S1) Vernal Pools (F9) ³ Indicators of hydrophytic vegetation and wetland hydrology must be present. Restrictive Layer (if present): Type:											
¹ Type: C=Concentration, D=Depletion, RM=Reduced Matrix. ² Location: PL=Pore Lining, RC=Root Channel, M=Matrix. Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Indicators for Problematic Hydric Soils ³ :			<u> </u>								
¹ Type: C=Concentration, D=Depletion, RM=Reduced Matrix. ² Location: PL=Pore Lining, RC=Root Channel, M=Matrix. Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Indicators for Problematic Hydric Soils ³ : Histosol (A1) Sandy Redox (S5) 1 cm Muck (A9) (LRR C) Histic Epipedon (A2) Stripped Matrix (S6) 2 cm Muck (A10) (LRR B) Black Histic (A3) Loamy Mucky Mineral (F1) Reduced Vertic (F18) Hydrogen Sulfide (A4) Loamy Gleyed Matrix (F2) Red Parent Material (TF2) Stratified Layers (A5) (LRR C) Depleted Matrix (F3) Other (Explain in Remarks) 1 cm Muck (A9) (LRR D) Redox Dark Surface (F6) Other (Explain in Remarks) Depleted Below Dark Surface (A11) Depleted Dark Surface (F7) Thick Dark Surface (A12) Redox Depressions (F8) Sandy Mucky Mineral (S1) Vernal Pools (F9) ³ Indicators of hydrophytic vegetation and wetland hydrology must be present. Restrictive Layer (if present): Type: Depth (inches): No Remarks: o mottles. Hydric soil not present. Yes No											
¹ Type: C=Concentration, D=Depletion, RM=Reduced Matrix. ² Location: PL=Pore Lining, RC=Root Channel, M=Matrix. Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Indicators for Problematic Hydric Soils ³ : Histosol (A1) Sandy Redox (S5) 1 cm Muck (A9) (LRR C) Histosol (A2) Stripped Matrix (S6) 2 cm Muck (A10) (LRR B) Black Histic (A3) Loamy Mucky Mineral (F1) Reduced Vertic (F18) Hydrogen Sulfide (A4) Loamy Gleyed Matrix (F2) Red Parent Material (TF2) Stratified Layers (A5) (LRR C) Depleted Matrix (F3) Other (Explain in Remarks) 1 cm Muck (A9) (LRR D) Redox Dark Surface (F6) Depleted Below Dark Surface (A11) Depleted Dark Surface (F7) Thick Dark Surface (A12) Redox Depressions (F8) 3 3 3 Indicators of hydrophytic vegetation and wetland hydrology must be present. Restrictive Layer (if present): Type:											
'Type: C=Concentration, D=Depletion, RM=Reduced Matrix. ² Location: PL=Pore Lining, RC=Root Channel, M=Matrix. Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Indicators for Problematic Hydric Soils ³ : Histosol (A1)											
¹ Type: C=Concentration, D=Depletion, RM=Reduced Matrix. ² Location: PL=Pore Lining, RC=Root Channel, M=Matrix. Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Indicators for Problematic Hydric Soils ³ : Histosol (A1) Sandy Redox (S5) 1 cm Muck (A9) (LRR C) Black Histic (A3) Loamy Mucky Mineral (F1) Reduced Vertic (F18) Hydrogen Sulfide (A4) Loamy Gleyed Matrix (F2) Red Parent Material (TF2) Stratified Layers (A5) (LRR C) Depleted Matrix (F3) Other (Explain in Remarks) 1 cm Muck (A9) (LRR D) Redox Dark Surface (F6) Other (Explain in Remarks) Sandy Mucky Mineral (S1) Vernal Pools (F9) ³ Indicators of hydrophytic vegetation and wetland hydrology must be present. Remarks: Indicators oil not present.											
¹ Type: C=Concentration, D=Depletion, RM=Reduced Matrix. ² Location: PL=Pore Lining, RC=Root Channel, M=Matrix. Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Indicators for Problematic Hydric Soils ³ : Histosol (A1) Sandy Redox (S5) 1 cm Muck (A9) (LRR C) Histic Epipedon (A2) Stripped Matrix (S6) 2 cm Muck (A10) (LRR B) Black Histic (A3) Loamy Mucky Mineral (F1) Reduced Vertic (F18) Hydrogen Sulfide (A4) Loamy Gleyed Matrix (F2) Red Parent Material (TF2) Stratified Layers (A5) (LRR C) Depleted Matrix (F3) Other (Explain in Remarks) 1 cm Muck (A9) (LRR D) Redox Dark Surface (F6) Depleted Dark Surface (F7) Thick Dark Surface (A12) Redox Depressions (F8) Sandy Mucky Mineral (S1) Vernal Pools (F9) Sandy Gleyed Matrix (S4) Vernal Pools (F9) ³ Indicators of hydrophytic vegetation and wetland hydrology must be present. Restrictive Layer (if present): Type: No No Remarks: Io mottles. Hydric soil not present. No No											
Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Indicators for Problematic Hydric Soils ³ :	¹ Type: C=C	oncentration, D=Deple	etion, RM=	Reduced Matrix.	² Location	: PL=Por	e Lining, R	RC=Root Channel, M=N	latrix.		
	Hydric Soil	Indicators: (Applica	ble to all L	RRs, unless othe	rwise not	ed.)		Indicators for Pro	blematic Hydi	ric Soils ³ :	
	Histosol	(A1)		Sandy Red	lox (S5)			1 cm Muck (A9) (LRR C)		
Black Histic (A3) Loamy Mucky Mineral (F1) Reduced Vertic (F18) Hydrogen Sulfide (A4) Loamy Gleyed Matrix (F2) Red Parent Material (TF2) Stratified Layers (A5) (LRR C) Depleted Matrix (F3) Other (Explain in Remarks) 1 cm Muck (A9) (LRR D) Redox Dark Surface (F6) Other (Explain in Remarks) Depleted Below Dark Surface (A11) Depleted Dark Surface (F7) Thick Dark Surface (A12) Redox Depressions (F8) Sandy Mucky Mineral (S1) Vernal Pools (F9) ³ Indicators of hydrophytic vegetation and wetland hydrology must be present. Restrictive Layer (if present): Type:	Histic E	pipedon (A2)		Stripped M	atrix (S6)			2 cm Muck (A10) (LRR B)			
Hydrogen Sulfide (A4)Loamy Gleyed Matrix (F2)Red Parent Material (TF2)Stratified Layers (A5) (LRR C)Depleted Matrix (F3)Other (Explain in Remarks)Other (Explain in Remarks)Other (Explain in Remarks) 1 cm Muck (A9) (LRR D)Redox Dark Surface (F6)Depleted Dark Surface (F7)Redox Depressions (F8)Redox Depressions (F8)Nandy Gleyed Matrix (S4)Vernal Pools (F9)Nindicators of hydrophytic vegetation and wetland hydrology must be present. Restrictive Layer (if present): Type:	Black H	istic (A3)		Loamy Muo	cky Minera	l (F1)		Reduced Vertic (F18)			
Stratified Layers (A5) (LRR C) Depleted Matrix (F3) Other (Explain in Remarks) 1 cm Muck (A9) (LRR D) Redox Dark Surface (F6) Depleted Below Dark Surface (A11) Depleted Dark Surface (F7) Thick Dark Surface (A12) Redox Depressions (F8) Sandy Mucky Mineral (S1) Vernal Pools (F9) 3 ¹ Indicators of hydrophytic vegetation and Sandy Gleyed Matrix (S4) Restrictive Layer (if present): Type: Depth (inches): Hydric Soil Present. NoRemarks: Io mottles. Hydric soil not present.	Hydroge	en Sulfide (A4)		Loamy Gle	yed Matrix	(F2)		Red Parent Material (TF2)			
1 cm Muck (A9) (LRR D) Redox Dark Surface (F6) Depleted Below Dark Surface (A11) Depleted Dark Surface (F7) Thick Dark Surface (A12) Redox Depressions (F8) Sandy Mucky Mineral (S1) Vernal Pools (F9) Sandy Gleyed Matrix (S4) wetland hydrology must be present. Restrictive Layer (if present): Type: Depth (inches): Hydric Soil Present? Yes No Remarks: Io mottlles. Hydric soil not present.	Stratifie	d Layers (A5) (LRR C)	Depleted N	latrix (F3)			Other (Explain	in Remarks)		
Depleted Below Dark Surface (A11) Depleted Dark Surface (F7) Thick Dark Surface (A12) Redox Depressions (F8) Sandy Mucky Mineral (S1) Vernal Pools (F9) ³ Indicators of hydrophytic vegetation and Sandy Gleyed Matrix (S4) wetland hydrology must be present. Restrictive Layer (if present): Type: Depth (inches): Popting Content of the present. Remarks: Io mottles. Hydric soil not present.	1 cm Mu	uck (A9) (LRR D)		Redox Dar	k Surface ((F6)					
Thick Dark Surface (A12) Redox Depressions (F8) Sandy Mucky Mineral (S1) Vernal Pools (F9) ³ Indicators of hydrophytic vegetation and wetland hydrology must be present.	Deplete	d Below Dark Surface	(A11)	Depleted D	ark Surfac	e (F7)					
	Thick Da	ark Surface (A12)		Redox Dep	ressions (l	F8)					
Sandy Gleyed Matrix (S4) wetland hydrology must be present. Restrictive Layer (if present):	Sandy N	_ Sandy Mucky Mineral (S1) Vernal Pools (F9)					³ Indicators of hydrophytic vegetation and				
Restrictive Layer (if present): Type:	Sandy G	Gleyed Matrix (S4)						wetland hydrolo	gy must be pre	esent.	
Type:	Restrictive	Layer (if present):									
Depth (inches): Hydric Soil Present? Yes No Remarks: No mottles. Hydric soil not present.	Type:										
Remarks: Io mottles. Hydric soil not present.	Depth (in	ches):						Hydric Soil Presen	t? Yes	No	<u> </u>
lo mottles. Hydric soil not present.	Remarks:										
lo mottles. Hydric soil not present.											
	lo mottles.	Hydric soil not pres	sent.								

Wetland Hydrology Indicators:	Secondary Indicators (2 or more required)
Primary Indicators (any one indicator is sufficient)	Water Marks (B1) (Riverine)
Surface Water (A1) Salt Crust (B11)	Sediment Deposits (B2) (Riverine)
High Water Table (A2) Biotic Crust (B12)	Drift Deposits (B3) (Riverine)
Saturation (A3) Aquatic Invertebrates (B13)	Drainage Patterns (B10)
Water Marks (B1) (Nonriverine) Hydrogen Sulfide Odor (C1)	Dry-Season Water Table (C2)
Sediment Deposits (B2) (Nonriverine) Oxidized Rhizospheres along L	iving Roots (C3) Thin Muck Surface (C7)
Drift Deposits (B3) (Nonriverine) Presence of Reduced Iron (C4)	Crayfish Burrows (C8)
Surface Soil Cracks (B6) Recent Iron Reduction in Plowe	ed Soils (C6) Saturation Visible on Aerial Imagery (C9)
Inundation Visible on Aerial Imagery (B7) Other (Explain in Remarks)	Shallow Aquitard (D3)
Water-Stained Leaves (B9)	FAC-Neutral Test (D5)
Field Observations:	
Surface Water Present? Yes No Depth (inches):	_
Water Table Present? Yes No Depth (inches):	_
Saturation Present? Yes <u>No</u> Depth (inches): (includes capillary fringe)	_ Wetland Hydrology Present? Yes X No
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous insp	pections), if available:
Remarks:	
Hydrology present. DP72 on bank of channel.	

Project/Site: Pond 20	City/County: Imperial Beach/San Diego Sampling Date: 7/7/08
Applicant/Owner: Port of San Diego	State: <u>CA</u> Sampling Point: <u>DP73/PP73</u>
Investigator(s): Rebecca Erickson/Brad Kelly	Section, Township, Range: S20; T18S; R2W
Landform (hillslope, terrace, etc.): bank slope	Local relief (concave, convex, none): CONVEX Slope (%): 0%
Subregion (LRR): C Lat	6300767.14402 Long: 1794563.01737 Datum: NAD83
Soil Map Unit Name: Huerhuero loam	NWI classification:
Are climatic / hydrologic conditions on the site typical for this time Are Vegetation <u>No</u> , Soil <u>No</u> , or Hydrology <u>No</u> signific Are Vegetation <u>No</u> , Soil <u>No</u> , or Hydrology <u>No</u> natural SUMMARY OF FINDINGS – Attach site map show	of year? Yes <u>X</u> No (If no, explain in Remarks.) antly disturbed? Are "Normal Circumstances" present? Yes <u>X</u> No y problematic? (If needed, explain any answers in Remarks.) Ving sampling point locations, transects, important features, etc.
Hydrophytic Vegetation Present? Yes No Hydric Soil Present? Yes No Wetland Hydrology Present? Yes No	X Is the Sampled Area X within a Wetland? Yes NoX
Remarks: CCC/CDFG jurisdiction to 7.5 feet from center of channel.	DP73 constitutes this limit. Non-ACOE jurisdictional.

	Absolute	Dominant	Indicator	Dominance Test worksheet:
<u>Tree Stratum</u> (Use scientific names.)	<u>% Cover</u>	Species?	Status	Number of Dominant Species
1				That Are OBL, FACW, or FAC: (A)
2				Total Number of Dominant
3				Species Across All Strata: (B)
4				
Total Cover:				That Are OBL_EACW or EAC: 100 (A/B)
Sapling/Shrub Stratum				
1				Prevalence Index worksheet:
2				Total % Cover of: Multiply by:
3.				OBL species <u>5</u> x 1 = <u>5</u>
4.				FACW species 75 x 2 = 150
5			·	FAC species x 3 =
Total Cover				FACU species x 4 =
Herb Stratum	·			$\frac{110}{10} \text{ species} \qquad \frac{10}{10} \text{ species} \qquad \frac{5}{50}$
1. Distichlis spicata	40	Yes	FACW	$\begin{array}{c} \text{Column Totals} & 90 \\ \text{Column Totals} & 90 \\$
2 Frankenia salina	30	Yes	FACW	Column rotals. $(A) = (B)$
3. Sarcocornia pacifica	5	No	OBL	Prevalence Index = B/A =2.27
4 Glebionis coronarium	5	No	UPL	Hydrophytic Vegetation Indicators:
5 Bromus diandrus	5	No	NI	× Dominance Test is >50%
6 Cressa truxillensis	5	No	FACW	\mathbf{X} Prevalence Index is $\leq 3.0^1$
7				Morphological Adaptations ¹ (Provide supporting
8				data in Remarks or on a separate sheet)
Total Cover	90%		·	Problematic Hydrophytic Vegetation ¹ (Explain)
Woody Vine Stratum				
1				¹ Indicators of hydric soil and wetland hydrology must
2.				be present.
Total Cover:				Hydrophytic
% Bare Ground in Herb Stratum10% % Cover	of Biotic C	rust		Present? Yes X No
Remarks:				
Hydrophytic vocatation dominant				
nyurophytic vegetation dominant.				

Depth	Matrix		Redo	ox Features	\$					
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Rema	rks	
0-12	7.5YR 3/2							Sa	ndy loam	
¹ Type: C=0	Concentration, D=Depl	etion, RM=	Reduced Matrix.	² Location	: PL=Por	e Lining, R	RC=Root Channel, M=	Matrix.		
Hydric Soi	I Indicators: (Applica	able to all	LRRs, unless othe	rwise note	ed.)		Indicators for Pr	oblematic Hyd	dric Soils':	
Histoso	ol (A1)		Sandy Red	ox (S5)			1 cm Muck (A	A9) (LRR C)		
Histic E	Epipedon (A2)		Stripped M	atrix (S6)			2 cm Muck (A10) (LRR B)			
Black H	Histic (A3)		Loamy Muo	cky Minera	l (F1)		Reduced Ver	tic (F18)		
Hydrog	gen Sulfide (A4)		Loamy Gle	yed Matrix	(F2)		Red Parent M	laterial (TF2)		
Stratifie	ed Layers (A5) (LRR C	;)	Depleted M	latrix (F3)			Other (Explai	n in Remarks)		
1 cm M	luck (A9) (LRR D)		Redox Dar	k Surface (F6)					
Deplete	ed Below Dark Surface	e (A11)	Depleted D	ark Surfac	e (F7)					
Thick D	Dark Surface (A12)		Redox Dep	ressions (F	-8)					
Sandy	Mucky Mineral (S1)		Vernal Poo	ls (F9)			³ Indicators of hyd	rophytic vegeta	ation and	
Sandy	Gleyed Matrix (S4)						wetland hydro	logy must be p	resent.	
Restrictive	E Layer (if present):									
Туре:										• •
Depth (ii	nches):						Hydric Soil Prese	nt? Yes	No	
Remarks:										
In mottlee	Hvdric soil not pres	sent.								

Wetland Hydrology Indicators:		Secondary Indicators (2 or more required)
Primary Indicators (any one indicator is sufficient)		Water Marks (B1) (Riverine)
Surface Water (A1) Sa	alt Crust (B11)	Sediment Deposits (B2) (Riverine)
High Water Table (A2)	otic Crust (B12)	Drift Deposits (B3) (Riverine)
Saturation (A3)	quatic Invertebrates (B13)	Drainage Patterns (B10)
Water Marks (B1) (Nonriverine)	/drogen Sulfide Odor (C1)	Dry-Season Water Table (C2)
Sediment Deposits (B2) (Nonriverine) Ox	kidized Rhizospheres along Living Roots	s (C3) Thin Muck Surface (C7)
Drift Deposits (B3) (Nonriverine)	esence of Reduced Iron (C4)	Crayfish Burrows (C8)
Surface Soil Cracks (B6) Re	ecent Iron Reduction in Plowed Soils (Ce	6) Saturation Visible on Aerial Imagery (C9)
Inundation Visible on Aerial Imagery (B7) Ot	her (Explain in Remarks)	Shallow Aquitard (D3)
Water-Stained Leaves (B9)		FAC-Neutral Test (D5)
Field Observations:		
Surface Water Present? Yes No D	epth (inches):	
Water Table Present? Yes No D	epth (inches):	
Saturation Present? Yes No D (includes capillary fringe)	Pepth (inches): Wetlar	nd Hydrology Present? Yes No
Describe Recorded Data (stream gauge, monitoring well	l, aerial photos, previous inspections), if	f available:
Remarks:		
Hydrology not present.		
WETLAND DETERMINATION DATA FORM – Arid West Region

Project/Site: Pond 20	City/County: Imperial Beach/San Diego Sampling Date: 7/7/08	
Applicant/Owner: Port of San Diego	State: CA Sampling Point: DP74/PP	74
Investigator(s): Rebecca Erickson/Brad Kelly	Section, Township, Range: S20; T18S; R2W	
Landform (hillslope, terrace, etc.): flat upland	Local relief (concave, convex, none): <u>none</u> Slope (%): <u>0</u> %	6
Subregion (LRR): C	: 6299776.34700 Long: 1794618.50054 Datum: NAD83	3
Soil Map Unit Name: Drainage/perennial	NWI classification: Upland	
Are climatic / hydrologic conditions on the site typical for this tim Are Vegetation <u>No</u> , Soil <u>No</u> , or Hydrology <u>No</u> signi Are Vegetation <u>No</u> , Soil <u>No</u> , or Hydrology <u>No</u> nature SUMMARY OF FINDINGS – Attach site map sho	of year? Yes <u>X</u> No (If no, explain in Remarks.) cantly disturbed? Are "Normal Circumstances" present? Yes <u>X</u> No (If needed, explain any answers in Remarks.) wing sampling point locations, transects, important features, explain any answers in Remarks.	etc.
Hydrophytic Vegetation Present? Yes No Hydric Soil Present? Yes No	$\frac{X}{X}$ Is the Sampled Area within a Wattend? Yes No. X	

Hydric Soil Present?	Yes	No <u>X</u>	within a Wetland?	Ves	No	×
Wetland Hydrology Present?	Yes	No X		103	NO	
Remarks:						
Non-jurisdictional.						

VEGETATION

	Absolute	Dominant	Indicator	Dominance Test worksheet:
<u>Tree Stratum</u> (Use scientific names.)	% Cover	Species?	Status	Number of Dominant Species
1				That Are OBL, FACW, or FAC: 1 (A)
2.				
3				I otal Number of Dominant Species Across All Strata: 2 (B)
۰ ۸				
T				Percent of Dominant Species
I otal Cover:				That Are OBL, FACW, or FAC: (A/B)
				Brevalence Index worksheet:
I	·			
2	·			
3				OBL species x 1 =0
4				FACW species x 2 =
5				FAC species x 3 =
Total Cover:				FACU species 70 x 4 = 280
Herb Stratum				UPL species x 5 =
_{1.} Mesembryanthemum nodiflorum	70	Yes	FACU	Column Totals: 90 (A) 300 (B)
2 Arthrocnemum subterminale	20	Yes	OBL	
3.				Prevalence Index = B/A =3.33
4.				Hydrophytic Vegetation Indicators:
5				Dominance Test is >50%
6				Prevalence Index is ≤3.0 ¹
				Morphological Adaptations ¹ (Provide supporting
<i>I</i>	·		. <u> </u>	data in Remarks or on a separate sheet)
8	000/		. <u> </u>	Problematic Hydrophytic Vegetation ¹ (Explain)
Total Cover:	90%			
Woody Vine Stratum				
1				he present
2				
Total Cover:				Hydrophytic Vegetation
% Bare Ground in Herb Stratum 10% % Cover	of Biotic C	rust		Present? Yes <u>No X</u>
Remarks:				
Hydrophytic vegetation not present.				

Color (moist) % Color (moist) % Type1 Loc2 Texture Remarks 0-8 7.5YR 3/2	Depth	Matrix		Rede	ox Features	S				
0-8 7.5YR 3/2 Loamy sand	(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Rema	rks
Type: C=Concentration, D=Depletion, RM=Reduced Matrix. ² Location: PL=Pore Lining, RC=Root Channel, M=Matrix. Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Indicators for Problematic Hydric Soils ³ :	0-8	7.5YR 3/2	·						Loa	amy sand
Type: C=Concentration, D=Depletion, RM=Reduced Matrix. ² Location: PL=Pore Lining, RC=Root Channel, M=Matrix. Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Indicators for Problematic Hydric Soils ³ :										
Type: C=Concentration, D=Depletion, RM=Reduced Matrix. ² Location: PL=Pore Lining, RC=Root Channel, M=Matrix. Indicators: (Applicable to all LRRs, unless otherwise noted.) Indicators for Problematic Hydric Soils ³ : Histosol (A1) Sandy Redox (S5) 1 cm Muck (A9) (LRR C) Histic Epipedon (A2) Stripped Matrix (S6) 2 cm Muck (A10) (LRR B) Black Histic (A3) Loamy Mucky Mineral (F1) Reduced Vertic (F18) Hydrogen Sulfide (A4) Loamy Gleyed Matrix (F3) Other (Explain in Remarks) 1 cm Muck (A9) (LRR C) Depleted Matrix (F3) Other (Explain in Remarks) 1 cm Muck (A9) (LRR C) Depleted Dark Surface (F6) Other (Explain in Remarks) Depleted Below Dark Surface (A11) Depleted Dark Surface (F7) Thick Dark Surface (A12) Sandy Mucky Mineral (S1) Vernal Pools (F9) ³ Indicators of hydrophytic vegetation and wetland hydrology must be present. Isstrictive Layer (if present): Type:										
Type: C=Concentration, D=Depletion, RM=Reduced Matrix. ² Location: PL=Pore Lining, RC=Root Channel, M=Matrix. ydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Indicators for Problematic Hydric Soils ³ :										
Type: C=Concentration, D=Depletion, RM=Reduced Matrix. ² Location: PL=Pore Lining, RC=Root Channel, M=Matrix. lydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Indicators for Problematic Hydric Soils ³ :										
Type: C=Concentration, D=Depletion, RM=Reduced Matrix. ² Location: PL=Pore Lining, RC=Root Channel, M=Matrix. Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Indicators for Problematic Hydric Soils ³ : Histosol (A1) Sandy Redox (S5) 1 cm Muck (A9) (LRR C) Histic Epipedon (A2) Stripped Matrix (S6) 2 cm Muck (A10) (LRR B) Black Histic (A3) Loamy Mucky Mineral (F1) Reduced Vertic (F18) Hydrogen Sulfide (A4) Loamy Gleyed Matrix (F2) Red Parent Material (TF2) Stratified Layers (A5) (LRR C) Depleted Matrix (F3) Other (Explain in Remarks) 1 cm Muck (A9) (LRR D) Redox Dark Surface (F6) Other (Explain in Remarks) Sandy Mucky Mineral (S1) Depleted Dark Surface (F7) Thick Dark Surface (A12) Redox Depressions (F8) Sandy Gleyed Matrix (S4) Vernal Pools (F9) ³ Indicators of hydrophytic vegetation and wetland hydrology must be present. Restrictive Layer (if present): Type:										
Histosol (A1) Sandy Redox (S5) 1 cm Muck (A9) (LRR C) Histic Epipedon (A2) Stripped Matrix (S6) 2 cm Muck (A10) (LRR B) Black Histic (A3) Loamy Mucky Mineral (F1) Reduced Vertic (F18) Hydrogen Sulfide (A4) Loamy Gleyed Matrix (F2) Red Parent Material (TF2) Stratified Layers (A5) (LRR C) Depleted Matrix (F3) Other (Explain in Remarks) 1 cm Muck (A9) (LRR D) Redox Dark Surface (F6) Other (Explain in Remarks) Depleted Below Dark Surface (A11) Depleted Dark Surface (F7) Thick Dark Surface (A12) Redox Depressions (F8) Sandy Gleyed Matrix (S4) Vernal Pools (F9) ³ Indicators of hydrophytic vegetation and wetland hydrology must be present. Restrictive Layer (if present): Type:	Type: C=0 Iydric Soi l	Concentration, D=Depl	etion, RM= able to all	Reduced Matrix.	² Location rwise not	: PL=Pore ed.)	e Lining, F	C=Root Channel, M Indicators for P	=Matrix. roblematic Hyd	dric Soils ³ :
	Histoso	ol (A1)		Sandy Rec	lox (S5)			1 cm Muck (A9) (LRR C)	
Black Histic (A3) Loamy Mucky Mineral (F1) Reduced Vertic (F18) Hydrogen Sulfide (A4) Loamy Gleyed Matrix (F2) Red Parent Material (TF2) Stratified Layers (A5) (LRR C) Depleted Matrix (F3) Other (Explain in Remarks) 1 cm Muck (A9) (LRR D) Redox Dark Surface (F6) Other (Explain in Remarks) Depleted Below Dark Surface (A11) Depleted Dark Surface (F7) Thick Dark Surface (A12) Redox Depressions (F8) Sandy Mucky Mineral (S1) Vernal Pools (F9) ³ Indicators of hydrophytic vegetation and wetland hydrology must be present. testrictive Layer (if present): Type:	Histic E	Epipedon (A2)		Stripped M	atrix (S6)			2 cm Muck (A10) (LRR B)	
Hydrogen Sulfide (A4) Loamy Gleyed Matrix (F2) Red Parent Material (TF2) Stratified Layers (A5) (LRR C) Depleted Matrix (F3) Other (Explain in Remarks) 1 cm Muck (A9) (LRR D) Redox Dark Surface (F6) Other (Explain in Remarks) Depleted Below Dark Surface (A11) Depleted Dark Surface (F7) Thick Dark Surface (A12) Redox Depressions (F8) Sandy Mucky Mineral (S1) Vernal Pools (F9) ³ Indicators of hydrophytic vegetation and wetland hydrology must be present. Restrictive Layer (if present): Type:	Black H	Histic (A3)		Loamy Mu	cky Minera	l (F1)		Reduced Ve	rtic (F18)	
Stratified Layers (A5) (LRR C) Depleted Matrix (F3) Other (Explain in Remarks) 1 cm Muck (A9) (LRR D) Redox Dark Surface (F6) Depleted Below Dark Surface (A11) Depleted Dark Surface (F7) Thick Dark Surface (A12) Redox Depressions (F8) Sandy Mucky Mineral (S1) Vernal Pools (F9) Sandy Gleyed Matrix (S4) Vernal Pools (F9) ³ Indicators of hydrophytic vegetation and wetland hydrology must be present. testrictive Layer (if present): Type:	 Hvdroa	ien Sulfide (A4)		Loamv Gle	ved Matrix	(F2)		Red Parent	Material (TF2)	
1 cm Muck (A9) (LRR D) Redox Dark Surface (F6) Depleted Below Dark Surface (A11) Depleted Dark Surface (F7) Thick Dark Surface (A12) Redox Depressions (F8) Sandy Mucky Mineral (S1) Vernal Pools (F9) Sandy Gleyed Matrix (S4) wetland hydrology must be present. Restrictive Layer (if present): Type: Depth (inches): Hydric Soil Present? Yes No	Stratifie	ed Lavers (A5) (LRR C	;)	Depleted N	, latrix (F3)	、 ,		Other (Expla	in in Remarks)	
Depleted Below Dark Surface (A11) Depleted Dark Surface (F7) Thick Dark Surface (A12) Redox Depressions (F8) Sandy Mucky Mineral (S1) Vernal Pools (F9) 3 ¹ Indicators of hydrophytic vegetation and wetland hydrology must be present. Lestrictive Layer (if present): Type: Depth (inches): Hydric Soil Present? Yes No	1 cm M	luck (A9) (LRR D)	/	Redox Dar	k Surface (F6)			,	
	Deplete	ed Below Dark Surface	(A11)	Depleted C	ark Surfac	e (F7)				
	Dopion	ark Surface (Δ12)	,,,,,,,	Bedox Der	ressions (I	=8)				
	Sandv	Mucky Mineral (S1)		Vernal Poo	//00010110 (1 //s (F9)	0)		³ Indicators of hy	trophytic veget:	ation and
Control of the sector of th	Candy	Gleved Matrix (S4)			13 (1 5)			wetland hydro	logy must be n	recent
Type:	Candy	Laver (if present):							nogy must be p	
Depth (inches):	Tuno	Luyer (il present).								
Depth (inches): No	Type									
	Depth (Ir	nches):						Hydric Soil Pres	ent? Yes	NO
Remarks:	Remarks:									
	ould not d	lig past 8 inches. H	ydric soil	not present.						
ould not dig past 8 inches. Hydric soil not present.										

HYDROLOGY

Primary Indicators (any one indicator is sufficient) Water Marks (B1) (Riverine) Surface Water (A1) Salt Crust (B11) Sediment Deposits (B2) (Riverine) High Water Table (A2) Biotic Crust (B12) Drift Deposits (B3) (Riverine) Saturation (A3) Aquatic Invertebrates (B13) Drainage Patterns (B10) Water Marks (B1) (Nonriverine) Hydrogen Sulfide Odor (C1) Dry-Season Water Table (C2) Sediment Deposits (B2) (Nonriverine) Oxidized Rhizospheres along Living Roots (C3) Thin Muck Surface (C7) Drift Deposits (B3) (Nonriverine) Presence of Reduced Iron (C4) Crayfish Burrows (C8) Surface Soil Cracks (B6) Recent Iron Reduction in Plowed Soils (C6) Saturation Visible on Aerial Imagery (C9) Inundation Visible on Aerial Imagery (B7) Other (Explain in Remarks) Shallow Aquitard (D3) Water-Stained Leaves (B9) Field Observations: FAC-Neutral Test (D5)						Secondary indicators (2 or more required)		
Surface Water (A1) Salt Crust (B11) Sediment Deposits (B2) (Riverine) High Water Table (A2) Biotic Crust (B12) Drift Deposits (B3) (Riverine) Saturation (A3) Aquatic Invertebrates (B13) Drainage Patterns (B10) Water Marks (B1) (Nonriverine) Hydrogen Sulfide Odor (C1) Dry-Season Water Table (C2) Sediment Deposits (B2) (Nonriverine) Oxidized Rhizospheres along Living Roots (C3) Thin Muck Surface (C7) Drift Deposits (B3) (Nonriverine) Presence of Reduced Iron (C4) Crayfish Burrows (C8) Surface Soil Cracks (B6) Recent Iron Reduction in Plowed Soils (C6) Saturation Visible on Aerial Imagery (C9) Water-Stained Leaves (B9) Other (Explain in Remarks) Shallow Aquitard (D3) Field Observations: Field Observations: Staturation Visible on Aerial Imagery (D5)	Primary Indicators (any one in	ndicator is s	sufficient)			Water Marks (B1) (Riverine)		
High Water Table (A2) Biotic Crust (B12) Drift Deposits (B3) (Riverine) Saturation (A3) Aquatic Invertebrates (B13) Drainage Patterns (B10) Water Marks (B1) (Nonriverine) Hydrogen Sulfide Odor (C1) Dry-Season Water Table (C2) Sediment Deposits (B2) (Nonriverine) Oxidized Rhizospheres along Living Roots (C3) Thin Muck Surface (C7) Drift Deposits (B3) (Nonriverine) Presence of Reduced Iron (C4) Crayfish Burrows (C8) Surface Soil Cracks (B6) Recent Iron Reduction in Plowed Soils (C6) Saturation Visible on Aerial Imagery (B7) Water-Stained Leaves (B9) Other (Explain in Remarks) Shallow Aquitard (D3) Field Observations: Field Observations: Field Observations:	Surface Water (A1)		_	_ Salt Crust (B11)		Sediment Deposits (B2) (Riverine)		
Saturation (A3) Aquatic Invertebrates (B13) Drainage Patterns (B10) Water Marks (B1) (Nonriverine) Hydrogen Sulfide Odor (C1) Dry-Season Water Table (C2) Sediment Deposits (B2) (Nonriverine) Oxidized Rhizospheres along Living Roots (C3) Thin Muck Surface (C7) Drift Deposits (B3) (Nonriverine) Presence of Reduced Iron (C4) Crayfish Burrows (C8) Surface Soil Cracks (B6) Recent Iron Reduction in Plowed Soils (C6) Saturation Visible on Aerial Imagery (B7) Water-Stained Leaves (B9) Other (Explain in Remarks) Shallow Aquitard (D3) Field Observations: Field Observations: Field Observations:	High Water Table (A2)		_	Biotic Crust (B12)		Drift Deposits (B3) (Riverine)		
Water Marks (B1) (Nonriverine) Hydrogen Sulfide Odor (C1) Dry-Season Water Table (C2) Sediment Deposits (B2) (Nonriverine) Oxidized Rhizospheres along Living Roots (C3) Thin Muck Surface (C7) Drift Deposits (B3) (Nonriverine) Presence of Reduced Iron (C4) Crayfish Burrows (C8) Surface Soil Cracks (B6) Recent Iron Reduction in Plowed Soils (C6) Saturation Visible on Aerial Imagery (C9) Inundation Visible on Aerial Imagery (B7) Other (Explain in Remarks) Shallow Aquitard (D3) Water-Stained Leaves (B9) FAC-Neutral Test (D5)	Saturation (A3)		_	Aquatic Invertebrates (B13)		Drainage Patterns (B10)		
Sediment Deposits (B2) (Nonriverine) Oxidized Rhizospheres along Living Roots (C3) Thin Muck Surface (C7) Drift Deposits (B3) (Nonriverine) Presence of Reduced Iron (C4) Crayfish Burrows (C8) Surface Soil Cracks (B6) Recent Iron Reduction in Plowed Soils (C6) Saturation Visible on Aerial Imagery (C9) Inundation Visible on Aerial Imagery (B7) Other (Explain in Remarks) Shallow Aquitard (D3) Water-Stained Leaves (B9) FAC-Neutral Test (D5)	Water Marks (B1) (Nonri	iverine)	_	_ Hydrogen Sulfide Odor (C1)		Dry-Season Water Table (C2)		
Drift Deposits (B3) (Nonriverine) Presence of Reduced Iron (C4) Crayfish Burrows (C8) Surface Soil Cracks (B6) Recent Iron Reduction in Plowed Soils (C6) Saturation Visible on Aerial Imagery (C9) Inundation Visible on Aerial Imagery (B7) Other (Explain in Remarks) Shallow Aquitard (D3) Water-Stained Leaves (B9) FAC-Neutral Test (D5)	Sediment Deposits (B2)	(Nonriverir	1e)	_ Oxidized Rhizospheres along Livit	ng Roots (C3)	Thin Muck Surface (C7)		
	Drift Deposits (B3) (Nonr	r iverine)	_	Presence of Reduced Iron (C4)		Crayfish Burrows (C8)		
Inundation Visible on Aerial Imagery (B7) Other (Explain in Remarks) Shallow Aquitard (D3) Water-Stained Leaves (B9) FAC-Neutral Test (D5) Field Observations: FAC-Neutral Test (D5)	Surface Soil Cracks (B6)	1	_	_ Recent Iron Reduction in Plowed	Soils (C6)	Saturation Visible on Aerial Imagery (C9)		
Water-Stained Leaves (B9) FAC-Neutral Test (D5) Field Observations:	Inundation Visible on Aerial Imagery (B7) O			Other (Explain in Remarks)		Shallow Aquitard (D3)		
Field Observations:	Water-Stained Leaves (E	39)				FAC-Neutral Test (D5)		
	Field Observations:							
Surface Water Present? Yes No Depth (inches):	Surface Water Present?	Yes	No	Depth (inches):				
Water Table Present? Yes No Depth (inches):	Water Table Present?	Yes	No	Depth (inches):				
Saturation Present? Yes No Depth (inches): Wetland Hydrology Present? Yes No (includes capillary fringe)	Saturation Present? (includes capillary fringe)	Yes	No	Depth (inches):	Wetland Hyd	drology Present? Yes No		
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:	Describe Recorded Data (stre	eam gauge,	, monitoring	well, aerial photos, previous inspec	tions), if availa	ible:		
Remarks:	Remarks:							
No hydrologic indicators present.	No hydrologic indicators pr	esent.						

WETLAND DETERMINATION DATA FORM – Arid West Region

Project/Site: Pond 20	City/County: Impe	rial Beach/San Diego Sa	ampling Date: 7/7/08
Applicant/Owner: Port of San Diego		State: CA Sa	ampling Point: DP75/PP75
Investigator(s): Rebecca Erickson/Brad Kelly	Section, Township	, _{Range:} <u>S20;</u> T18S; R2W	
Landform (hillslope, terrace, etc.): flat upland	Local relief (conca	ave, convex, none): none	Slope (%): <u>0%</u>
Subregion (LRR): C	Lat: <u>6299282.64127</u>	Long: <u>1794717.05502</u>	Datum: NAD83
Soil Map Unit Name: Drainage/perennial		NWI classification	_{on:} Upland
Are climatic / hydrologic conditions on the site typical for this	time of year? Yes <u>X</u> I	No (If no, explain in Rem	arks.)
Are Vegetation <u>No</u> , Soil <u>No</u> , or Hydrology <u>No</u> na	aturally problematic?	(If needed, explain any answers i	n Remarks.)
SUMMARY OF FINDINGS – Attach site map s	howing sampling poi	nt locations, transects, in	mportant features, etc.
Hydrophytic Vegetation Present? Yes No Hydric Soil Present? Yes No	S X Is the Sam	pled Area	No X

Hydric Soil Present?	Yes	No	<u>^</u>	within a Wetland?	Yes	No	X
Wetland Hydrology Present?	Yes	No	<u>×</u>				
Remarks:							
Non-jurisdictional.							

VEGETATION

	Absolute	Dominant	Indicator	Dominance Test worksheet:	
Tree Stratum (Use scientific names.)	% Cover	Species?	Status	Number of Dominant Species	
1			·	That Are OBL, FACW, or FAC: (A))
2				Total Number of Dominant	
3				Species Across All Strata: 1 (B))
4				Percent of Dominant Species	
Total Cover:				That Are OBL, FACW, or FAC: 0 (A/	/B)
Sapling/Shrub Stratum					<i>,</i>
1	. <u> </u>		<u> </u>	Prevalence Index worksheet:	
2				Total % Cover of:Multiply by:	
3				OBL species x 1 =	
4				FACW species <u>15</u> x 2 = <u>30</u>	
5				FAC species x 3 =	
Total Cover:				FACU species 65 x 4 = 260	
Herb Stratum				UPL species x 5 =	
1. Mesembryanthemum nodiflorum	60	Yes	FACU	Column Totals: 80 (A) 290 (E	3)
2. Baccharis salicifolia	15	No	FACW		- /
3. Atriplex prostrata	5	No	FACU	Prevalence Index = B/A =3.63	
4				Hydrophytic Vegetation Indicators:	
5.				Dominance Test is >50%	
6.				Prevalence Index is ≤3.0 ¹	
7.				Morphological Adaptations ¹ (Provide supporting	
8				data in Remarks or on a separate sheet)	
Total Cover	80%			Problematic Hydrophytic Vegetation ¹ (Explain)	
Woody Vine Stratum					
1				¹ Indicators of hydric soil and wetland hydrology must	:
2.				be present.	
Total Cover:				Hydrophytic Vegetation	
% Bare Ground in Herb Stratum 20% % Cover	of Biotic C	rust		Present? Yes No X	
Remarks:				4	
Hydrophytic vegetation not present.					

Profile Desc	cription: (Describe to	o the depth r	needed to docur	ment the ir	ndicator	or confirm	n the absence of indicators.)	
Depth	Matrix		Redo	x Features	1			
(inches)	Color (moist)	%	Color (moist)	%	Type'	Loc ²	Texture Remarks	
0-8	7.5YR 3/2						Loamy sand	
						·		—
		<u> </u>						
¹ Type: C=C	oncentration D=Deple	tion RM=Re	duced Matrix	² Location	PI =Por	 ∍ Linina R	C=Root Channel M=Matrix	_
Hydric Soil	Indicators: (Applica	ble to all LR	Rs. unless othe	rwise note	d.)	o Eining, i v	Indicators for Problematic Hydric Soils ³ :	
Histosol	(A1)		Sandy Red	ov (S5)	,		1 cm Muck (A9) (I PP C)	
Histic Fi	ninedon (A2)		Stripped M	$o_{\rm N}(33)$			2 cm Muck (A10) (I PP B)	
Black Hi	istic ($\Delta 3$)			kv Mineral	(E1)		Beduced Vertic (E18)	
<u> </u>	an Sulfide ($\Delta 4$)			vod Matrix	(F2)		Red Parent Material (TE2)	
Nyulogo	d Lavers (A5) (LRR C)	Depleted M	latrix (F3)	(1 2)		Other (Evolain in Remarks)	
1 cm Mi	uck (A9) (I RR D)	/	Bedox Dark	(Surface (I	F6)			
Deplete	d Below Dark Surface	(A11)	Depleted D	ark Surface	e (F7)			
Thick D	ark Surface (A12)	(,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	Bedox Dep	ressions (F				
Sandy M	Aucky Mineral (S1)		Vernal Pool	ls (F9)	0)		³ Indicators of hydrophytic vegetation and	
Sandy C	Gleved Matrix (S4)						wetland hydrology must be present.	
Restrictive	Laver (if present):							
Type:								
Depth (in	ches):		_				Hydric Soil Present? Yes No	ĸ
Remarks:	,							
. tomantor								
Hydric soil n	ot present.							
HYDROLO	GY							

Wetland Hydrology Indicators:	Secondary Indicators (2 or more required)
Primary Indicators (any one indicator is sufficient)	Water Marks (B1) (Riverine)
Surface Water (A1) Salt Crust (B	11) Sediment Deposits (B2) (Riverine)
High Water Table (A2) Biotic Crust (B12) Drift Deposits (B3) (Riverine)
Saturation (A3) Aquatic Inve	tebrates (B13) Drainage Patterns (B10)
Water Marks (B1) (Nonriverine) Hydrogen Su	lfide Odor (C1) Dry-Season Water Table (C2)
Sediment Deposits (B2) (Nonriverine) Oxidized Rhi	zospheres along Living Roots (C3) Thin Muck Surface (C7)
Drift Deposits (B3) (Nonriverine) Presence of	Reduced Iron (C4) Crayfish Burrows (C8)
Surface Soil Cracks (B6) Recent Iron	Reduction in Plowed Soils (C6) Saturation Visible on Aerial Imagery (C9)
Inundation Visible on Aerial Imagery (B7) Other (Expla	in in Remarks) Shallow Aquitard (D3)
Water-Stained Leaves (B9)	FAC-Neutral Test (D5)
Field Observations:	
Surface Water Present? Yes No Depth (inch	es):
Water Table Present? Yes No Depth (inch	es):
Saturation Present? Yes <u>No</u> Depth (inch (includes capillary fringe)	es): Wetland Hydrology Present? Yes No
Describe Recorded Data (stream gauge, monitoring well, aerial ph	otos, previous inspections), if available:
Remarks:	
No hydrologic indicators present.	

WETLAND DETERMINATION DATA FORM – Arid West Region

Project/Site: Pond 20	City/County: Imperial Beach/San Diego Sampling Date: 7/7/08						
Applicant/Owner: Port of San Diego	State: CA Sampling Point: DP76/PP76						
Investigator(s): Rebecca Erickson/Brad Kelly	_ Section, Township, Range: S20; T18S; R2W						
Landform (hillslope, terrace, etc.): flat upland	_ Local relief (concave, convex, none): none Slope (%): 0%						
Subregion (LRR): C Lat: 62	.99147.73317 Long: <u>1794854.99997</u> Datum: <u>NAD83</u>						
Soil Map Unit Name: Drainage/perennial	NWI classification: Upland						
Are climatic / hydrologic conditions on the site typical for this time of year? Yes No (If no, explain in Remarks.) Are VegetationNo, SoilNo, or HydrologyNo significantly disturbed? Are "Normal Circumstances" present? Yes No Are VegetationNo, SoilNo, or HydrologyNo naturally problematic? (If needed, explain any answers in Remarks.) SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc.							
Hydrophytic Vegetation Present? Yes NoX Hydric Soil Present? Yes NoX Wetland Hydrology Present? Yes NoX	Is the Sampled Area within a Wetland? Yes <u>No X</u>						

VEGETATION

Remarks:

	Absolute	Dominant	Indicator	Dominance Test worksheet:	
Tree Stratum (Use scientific names.)	% Cover	Species?	Status	Number of Dominant Species	
1				That Are OBL, FACW, or FAC: 0	(A)
2					()
2				Total Number of Dominant	
3				Species Across All Strata: 0	(B)
4				Percent of Dominant Species	
Total Cover:				That Are OBL, FACW, or FAC: 0	(A/B)
Sapling/Shrub Stratum					()
1				Prevalence Index worksheet:	
2.				Total % Cover of: Multiply by:	
3				OBL species x 1 =	
					_
4					_
5				FAC species x 3 =	-
Total Cover:				FACU species $\frac{60}{20}$ x 4 = $\frac{320}{100}$	_
Herb Stratum	00	Maa	FAOL	UPL species20 x 5 =100	_
1. Mesembryantnemum nodifiorum	- 08	res	FACU	Column Totals: 100 (A) 420	(B)
2. Camissonia cheiranthifolia	20	No	UPL		_ 、 /
3.				Prevalence Index = B/A = 4.2	_
4				Hydrophytic Vegetation Indicators:	
				Dominance Test is >50%	
6					
7				Morphological Adaptations' (Provide suppor	ting
8					
Total Cover:	100%			Problematic Hydrophytic Vegetation' (Expla	in)
Woody Vine Stratum					
1				¹ Indicators of hydric soil and wetland hydrology r	nust
2				be present.	
				Hydrophytic	
Total Cover.				Vegetation	
% Bare Ground in Herb Stratum0% % Cover	of Biotic C	rust		Present? Yes <u>No X</u>	
Remarks:					
Hydrophytic vegetation not present.					

Profile Desc	ription: (Describe to	o the depth ne	eded to docu	ment the ir	ndicator of	or confirn	n the absence of indi	cators.)		
Depth	Matrix		Redox Features			2				
(inches)	Color (moist)	<u>%</u> C	olor (moist)	%	Type'	Loc ²	Texture	Remark	(S	
<u>0-8</u>	7.5YR 3/2							Loa	my sand	
¹ Type: C=Co	oncentration, D=Deple	etion, RM=Red	uced Matrix. s, unless othe	² Location: rwise note	PL=Pore	e Lining, F	C=Root Channel, M=	Matrix. blematic Hydr	ic Soils ³ :	
Histosol (A1)			Sandy Redox (S5)				1 cm Muck (A9) (LRR C)			
Histic Epipedon (A2)			Stripped Matrix (S6)				2 cm Muck (A10) (LRR B)			
Black Histic (A3)			Loamy Mucky Mineral (F1)				Reduced Vertic (F18)			
Hydrogen Sulfide (A4)			Loamy Gleyed Matrix (F2)				Red Parent Material (TF2)			
Stratified Layers (A5) (LRR C)			Depleted Matrix (F3)			Other (Explain in Remarks)				
1 cm Muck (A9) (LRR D)			Redox Dark Surface (F6)							
Depleted Below Dark Surface (A11)			Depleted Dark Surface (F7)							
Thick Dark Surface (A12)			Redox Depressions (F8)				0			
Sandy Mucky Mineral (S1)			Vernal Pools (F9)			³ Indicators of hydrophytic vegetation and				
Sandy G	leyed Matrix (S4)						wetland hydrold	ogy must be pre	esent.	
Restrictive I	_ayer (if present):									
Туре:										
Depth (ind	ches):						Hydric Soil Preser	nt? Yes	No	<u>×</u>
Remarks:							•			
Hydric soil n	ot present.									
HYDROLO	GY									

Wetland Hydrology Indicators:		Secondary Indicators (2 or more required)			
Primary Indicators (any one indicator is su	Water Marks (B1) (Riverine)				
Surface Water (A1)	Salt Crust (B11)	Sediment Deposits (B2) (Riverine)			
High Water Table (A2)	Biotic Crust (B12)	Drift Deposits (B3) (Riverine)			
Saturation (A3)	Aquatic Invertebrates (B13)	Drainage Patterns (B10)			
Water Marks (B1) (Nonriverine)	Hydrogen Sulfide Odor (C1)	Dry-Season Water Table (C2)			
Sediment Deposits (B2) (Nonriverine	 Oxidized Rhizospheres along Living Roots 	Thin Muck Surface (C7)			
Drift Deposits (B3) (Nonriverine)	Presence of Reduced Iron (C4)	Crayfish Burrows (C8)			
Surface Soil Cracks (B6)	Recent Iron Reduction in Plowed Soils (C6	Saturation Visible on Aerial Imagery (C9)			
Inundation Visible on Aerial Imagery (B7) Other (Explain in Remarks)	Shallow Aquitard (D3)			
Water-Stained Leaves (B9)		FAC-Neutral Test (D5)			
Field Observations:					
Surface Water Present? Yes	_ No Depth (inches):				
Water Table Present? Yes	_ No Depth (inches):				
Saturation Present? Yes (includes capillary fringe)	_ No Depth (inches): Wetlan	Wetland Hydrology Present? Yes No			
Describe Recorded Data (stream gauge, r	nonitoring well, aerial photos, previous inspections), if a	available:			
Remarks:					
Hydrology not present					

APPENDIX 2. PHOTO POINTS



Photo Point 1. Data point 1 is located mid-slope of an unvegetated berm, within the southwestern portion of the site. Photo is directed southwest and was taken June 30, 2008.



Photo Point 2. Data point 2 is located mid-slope of an unvegetated berm, above salt line, immediately southwest of DP 1, within the southwestern portion of the site. Photo is directed north and was taken June 30, 2008.



Photo Point 3. Data point 3 is located at the toe of the southern berm, which runs parallel to Palm Avenue. Photo is directed east and was taken June 20, 2008.



Photo Point 4. Data point 4 is located mid-slope of the southern berm, immediately south of DP 3. Photo is directed east and was taken June 30, 2008.



Photo Point 5. Data point 5 is located at top of slope of the southern berm (2.0' south of Data Point 4). Photo is directed east and was taken June 30, 2008.



Photo Point 6. Data point 6 is located east of DP 5 at the toe of the southern berm, which runs parallel to Palm Avenue. Photo is directed east and was taken June 20, 2008.



Photo Point 7. Data point 7 is located mid-slope of the southern berm, immediately south of DP 6. Photo is directed east and was taken June 30, 2008.



Photo Point 8. Data point 8 is located mid-slope of the southern berm, immediately south of DP 7. Photo is directed east and was taken June 30, 2008.



Photo Point 9. Data point 9 is located on salt panne within the southern portion of study area, north of DP 8. Photo is directed east and was taken June 30, 2008.



Photo Point 10. Data point 10 is located along an old berm in southern portion of site, northeast of DP 9. Photo is directed south and was taken June 30, 2008.



Photo Point 11. Data point 11 is located along an old berm in southern portion of site, north of DP 10. Photo is directed north and was taken June 30, 2008.



Photo Point 12. Data point 12 is located just east of the edge of the old berm referenced in DP 10 and 11, above. Photo is directed east and was taken June 30, 2008.



Photo Point 13. Data point 13 is located in the south-central portion of study area, northwest of DP 12, at the slightly elevated edge of a historically flooded area. Photo is directed northwest and was taken June 30, 2008.



Photo Point 14. Data point 14 is located in the south-central portion of study area, north of DP 13, within a historically flooded area. Photo is directed west and was taken June 30, 2008.



Photo Point 15. Data point 15 is located in upland area south of DP 13 and 14. Photo is directed west and was taken June 30, 2008.



Photo Point 16. Data point 16 is located in the southwest portion of site within a historically flooded area northwest of DP 15. Photo is directed southwest and was taken June 30, 2008.



Photo Point 17. Data point 17 is located in the west-central portion of study area, north of DP 16. Photo is directed southeast and was taken June 30, 2008.



Photo Point 18. Data point 18 is located in an upland portion of the west-central portion of study area, northeast of DP 17. Photo is directed west and was taken June 30, 2008.



Photo Point 19. Data point 19 is located in the northwestern portion of study area, north of DP 18. Photo is directed northeast and was taken June 30, 2008.



Photo Point 20. Data point 20 is located in the northwestern portion of study area, north of DP 19, in an area known to be flooded during large rain events. Photo is directed northeast and was taken June 30, 2008.



Photo Point 21. Data point 21 is located on the west bank of a channel which runs perpendicular to Palm Avenue on the southwest side of the study area, known to receive runoff from the surrounding area. Photo is directed south and was taken July 1, 2008.



Photo Point 22. Data point 22 is located in center of the channel, east of DP 21. Photo is directed southeast and was taken July 1, 2008.



Photo Point 23. Data point 23 is located on west bank of the channel in DP 22. Photo is directed northwest and was taken July 1, 2008.



Photo Point 24. Data point 24 is located on the west-central bank of the western berm, northwest of DP 23. Photo is directed southwest, downslope and was taken July 1, 2008.



Photo Point 25. Data point 25 is located at the toe of slope, immediately west of DP 24. Photo is directed south and was taken July 1, 2008.



Photo Point 26. Data point 26 is located on the lower bank on east side of western stream channel, west of DP 25. Photo is directed south and was taken July 1, 2008.



Photo Point 27. Data point 27 is located on the lower bank on west side of western stream channel, west of DP 26. Photo is directed south and was taken July 1, 2008.



Photo Point 28. Data point 28 is located on the western bank of eastern stream channel. Photo is directed north and was taken July 1, 2008.



Photo Point 29. Data point 29 is located within center of eastern stream channel. Photo is directed north and was taken July 1, 2008.



Photo Point 30. Data point 30 is located on the eastern bank of eastern stream channel. Photo is directed north and was taken July 1, 2008.



Photo Point 31. Data point 31 is located in the southeastern portion of study area. Photo is directed north and was taken July 1, 2008.



Photo Point 32. Data point 32 is located in a slight depression created by historical drainage patterns in the southeastern portion of study area, immediately northwest of DP 31. Photo is directed north and was taken July 1, 2008.



Photo Point 33. Data point 33 is located in a slightly raised area within southeastern portion of study area, immediately west of DP 32. Photo is directed northeast and was taken July 1, 2008.



Photo Point 34. Data point 34 is located in a slight depression created by historical drainage patterns in southeastern portion of study area, immediately northwest of DP 33. Photo is directed northeast and was taken July 1, 2008.



Photo Point 35. Data point 35 is located in a slightly raised area within southeastern portion of study area, immediately northwest of DP 34. Photo is directed northeast and was taken July 1, 2008.



Photo Point 36. Data point 36 is located at the bottom of the southeastern berm. Photo is directed east and was taken July 1, 2008.



Photo Point 37. Data point 37 is located on island within center of channel, comprised of drift deposits and salt crusts, created by historical drainage patterns. DP 37 is located immediately north of DP 36. Photo is directed east and was taken July 1, 2008.



Photo Point 38. Data point 38 is located on the northern outside edge of the historic channel in DP 37. Photo is directed east and was taken July 1, 2008.



Photo Point 39. Data point 39 is located directly west of DP 38, along the same outside edge, within southeastern portion of study area. Photo is directed east and was taken July 1, 2008.



Photo Point 40. Data point 40 is located within salt panne, directly west of DP 37. This area exhibits historic drainage patterns parallel to the southern berm surrounding the site. Photo is directed east and was taken July 1, 2008.



Photo Point 41. Data point 41 is located directly west of DP 36, in upland habitat. Photo is directed east and was taken July 1, 2008.



Photo Point 42. Data point 42 is located within the east-central portion of the study area in upland habitat. Photo is directed southeast and was taken July 1, 2008.



Photo Point 43. Data point 43 is located within the east-central portion of the study area in upland habitat, north of DP 42. Photo is directed east and was taken July 1, 2008.



Photo Point 44. Data point 44 is located within the east-central portion of the study area in upland habitat, north of DP 43. Photo is directed east and was taken July 1, 2008.



Photo Point 45. Data point 45 is located on a slightly elevated area, which defines the western edge of a historic drainage in the northeastern corner of the study area. Photo is directed north and was taken July 1, 2008.



Photo Point 46. Data point 46 is located within a historically flooded channel in northeastern portion of site, east of DP 45. Photo is directed north and was taken July 1, 2008.



Photo Point 47. Data point 47 is located at the eastern limit of the historically flooded channel in DP 46, above. Photo is directed north and was taken July 1, 2008.



Photo Point 48. Data point 48 is located within an upland area in the north-central portion of the site. Photo is directed east and was taken July 1, 2008.



Photo Point 49. Data point 49 is located in the north-central portion of study area in an area of sediment deposits caused by historical hydrologic processes, immediately south of DP 48. Photo is directed east and was taken July 1, 2008.



Photo Point 50. Data point 50 is located within upland habitat in the north-central portion of study area, south of DP 49. Photo is directed east and was taken July 1, 2008.



Photo Point 51. Data point 51 is located in an area subject to historical flooding, in the northwestern portion of the study area. Photo is directed southeast and was taken July 1, 2008.



Photo Point 52. Data point 52 is located within upland area just southwest of DP 51. Photo is directed southeast and was taken July 1, 2008.



Photo Point 53. Data point 53 is located on the northwestern outside edge of the area in DP 51. Photo is directed southeast and was taken July 1, 2008.



Photo Point 54. Data point 54 is located on the outside edge of an area subject to historic flooding, within the northwestern portion of the study area. Photo is directed south and was taken July 1, 2008.



Photo Point 55. Data point 55 is located within an area subject to historic flooding, within the northwestern portion of the study area. Photo is directed south and was taken July 1, 2008.



Photo Point 56. Data point 56 is located along slightly elevated area that defines the western limit of the historically flooded area of DP 55. Photo is directed south and was taken July 1, 2008.



Photo Point 57. Data point 57 is located west of berm in the western portion of the study area. DP 57 is located within an area subject to tidal influence. Photo is directed east and was taken July 7, 2008.



Photo Point 58. Data point 58 is located west of berm in the western portion of the study area. DP 58 is located within an area subject to tidal influence. Photo is directed east and was taken July 7, 2008.


Photo Point 59. Data point 59 is located west of berm in the western portion of the study area. DP 59 is located just outside of the area subject to tidal influence, southwest of DP 58. Photo is directed east and was taken July 7, 2008.



Photo Point 60. Data point 60 is located west of berm in the western portion of the study area. DP 60 is located along the outside edge of area subject to tidal influence, southeast of DP 59. Photo is directed northeast and was taken July 7, 2008.



Photo Point 61. Data point 61 is located west of berm in the western portion of the study area. DP 61 is located along the inside edge of the area subject to tidal influence, southeast of DP 60. Photo is directed north and was taken July 7, 2008.



Photo Point 62. Data point 62 is located west of berm in the western portion of the study area. DP 62 is located along outside edge of area subject to tidal influence, west of DP 61. Photo is directed north and was taken July 7, 2008.



Photo Point 63. Data point 63 is located west of berm in the western portion of the study area. DP 63 is located along the inside edge of an area subject to tidal influence, southeast of DP 62. Photo is directed north and was taken July 7, 2008.



Photo Point 64. Data point 64 is located west of the berm in the western portion of the study area. DP 64 is located along the outside edge of area subject to tidal influence, west of DP 63. Photo is directed south and was taken July 7, 2008.



Photo Point 65. Data point 65 is located west of the berm in the northwestern portion of the study area. DP 65 is located in an area subject to tidal influence just outside of the channel, northwest of DP 64. Photo is directed south and was taken July 7, 2008.



Photo Point 66. Data point 66 is located west of the berm in the northwestern portion of the study area, on a slope going up to the road. DP 66 is located west of DP 65. Photo is directed northwest and was taken July 7, 2008.



Photo Point 67. Data point 67 is located in the northwestern portion of the study area on the road overlooking the study area. DP 67 is located west of DP 66. Photo is directed southeast and was taken July 7, 2008.



Photo Point 68. Data point 68 is located along the upper bank of the channel that defines the eastern limits of the study area. Photo is directed south and was taken July 7, 2008.



Photo Point 69. Data point 69 is located along the mid-bank of the channel that defines the eastern limits of the study area, immediately east of DP68. Photo is directed south and was taken July 7, 2008.



Photo Point 70. Data point 70 is located along the lower portion of the channel that defines the eastern limits of the study area, immediately east of DP69. Photo is directed south and was taken July 7, 2008.



Photo Point 71. Data point 71 is located along the inside edge of the bottom of the channel that defines the eastern limits of the study area, immediately east of DP 70. Photo is directed south and was taken July 7, 2008.



Photo Point 72. Data point 72 is located along the lower portion of the channel that defines the eastern limits of the study area, immediately east of DP 71. Photo is directed south and was taken July 7, 2008.



Photo Point 73. Data point 73 is located along the upper bank of the channel that defines the eastern limits of the study area, immediately east of DP 72. Photo is directed south and was taken July 7, 2008.



Photo Point 74. Data point 74 is located within upland area in the north-central portion of the site. Photo is directed west and was taken July 7, 2008.



Photo Point 75. Data point 75 is located within upland area in the north-central portion of the site, northeast of DP 74. Photo is directed west and was taken July 7, 2008.



Photo Point 76. Data point 76 is located within upland area in the northwestern portion of the site, northeast of DP 75. Photo is directed southeast and was taken July 7, 2008.

APPENDIX 3. RAINFALL HISTORY AND RETURN FREQUENCY

water-rear (OctSept.) Raintait Accumulation history					
Water Year	Rainfall	Rank	P(exceed)	Exceed%	ReturnRate
1851	8.43	99	0.631	63.057	1.586
1852	9.86	69	0.439	43.949	2.275
1853	10.84	55	0.350	35.032	2.855
1854	11.08	49	0.312	31.210	3.204
1855	12.08	38	0.242	24.204	4.132
1856	9.92	67	0.427	42.675	2.343
1857	4.72	148	0.943	94.268	1.061
1858	7.65	109	0.694	69.427	1.440
1859	6.49	122	0.777	77.707	1.287
1860	6.70	116	0.739	73.885	1.353
1861	9.35	82	0.522	52.229	1.915
1862	14.16	28	0.178	17.834	5.607
1863	4.12	153	0.975	97.452	1.026
1864	4.89	147	0.936	93.631	1.068
1865	9.63	73	0.465	46.497	2.151
1866	11.63	44	0.280	28.025	3.568
1867	12.93	31	0.197	19.745	5.065
1868	11.49	45	0.287	28.662	3.489
1869	11.17	47	0.299	29.936	3.340
1870	5.54	137	0.873	87.261	1.146
1871	5.06	143	0.911	91.083	1.098
1872	6.36	124	0.790	78.981	1.266
1873	8.27	101	0.643	64.331	1.554
1874	15.18	17	0.108	10.828	9.235
1875	6.10	128	0.815	81.529	1.227
1876	9.63	73	0.465	46.497	2.151
1877	3.63	154	0.981	98.089	1.019
1878	16.10	12	0.076	7.643	13.083
1879	7.88	106	0.675	67.516	1.481
1880	14.79	22	0.140	14.013	7.136
1881	9.30	83	0.529	52.866	1.892
1882	9.47	78	0.497	49.682	2.013
1883	4.91	146	0.930	92.994	1.075
1884	26.04	1	0.006	0.637	157.000
1885	8.73	91	0.580	57.962	1.725
1886	16.83	11	0.070	7.006	14.273
1887	8.33	100	0.637	63.694	1.570
1888	9.86	69	0.439	43.949	2.275
1889	11.01	50	0.318	31.847	3.140
1890	15.63	15	0.096	9.554	10.467
1891	9.90	68	0.433	43.312	2.309

City of San Diego Water-Year (Oct.-Sept.) Rainfall Accumulation History

Water Year	Rainfall	Rank	P(exceed)	Exceed%	ReturnRate
1892	8.67	94	0.599	59.873	1.670
1893	9.21	86	0.548	54.777	1.826
1894	5.02	145	0.924	92.357	1.083
1895	11.86	41	0.261	26.115	3.829
1896	6.33	125	0.796	79.618	1.256
1897	11.66	43	0.274	27.389	3.651
1898	5.05	144	0.917	91.720	1.090
1899	5.24	139	0.885	88.535	1.129
1900	5.90	130	0.828	82.803	1.208
1901	10.60	59	0.376	37.580	2.661
1902	7.03	114	0.726	72.611	1.377
1903	10.84	55	0.350	35.032	2.855
1904	4.40	152	0.968	96.815	1.033
1905	14.98	19	0.121	12.102	8.263
1906	14.24	27	0.172	17.197	5.815
1907	10.43	61	0.389	38.854	2.574
1908	9.36	80	0.510	50.955	1.963
1909	9.41	79	0.503	50.318	1.987
1910	10.00	65	0.414	41.401	2.415
1911	11.98	39	0.248	24.841	4.026
1912	10.93	52	0.331	33.121	3.019
1913	5.67	135	0.860	85.987	1.163
1914	9.73	72	0.459	45.860	2.181
1915	14.41	26	0.166	16.561	6.038
1916	12.83	33	0.210	21.019	4.758
1917	9.85	71	0.452	45.223	2.211
1918	8.23	102	0.650	64.968	1.539
1919	8.82	89	0.567	56.688	1.764
1920	8.73	91	0.580	57.962	1.725
1921	8.23	102	0.650	64.968	1.539
1922	17.42	6	0.038	3.822	26.167
1923	6.39	123	0.783	78.344	1.276
1924	5.62	136	0.866	86.624	1.154
1925	5.82	133	0.847	84.713	1.180
1926	15.70	14	0.089	8.917	11.214
1927	14.74	24	0.153	15.287	6.542
1928	8.69	93	0.592	59.236	1.688
1929	7.33	112	0.713	71.338	1.402
1930	10.47	60	0.382	38.217	2.617
1931	10.86	53	0.338	33.758	2.962
1932	13.10	30	0.191	19.108	5.233
1933	10.68	57	0.363	36.306	2.754
1934	4.41	150	0.955	95.541	1.047

Water Year	Rainfall	Rank	P(exceed)	Exceed%	ReturnRate
1935	15.09	18	0.115	11.465	8.722
1936	8.53	97	0.618	61.783	1.619
1937	15.76	13	0.083	8.280	12.077
1938	9.59	76	0.484	48.408	2.066
1939	12.90	32	0.204	20.382	4.906
1940	9.36	80	0.510	50.955	1.963
1941	25.03	2	0.013	1.274	78.500
1942	12.68	34	0.217	21.656	4.618
1943	11.14	48	0.306	30.573	3.271
1944	14.43	25	0.159	15.924	6.280
1945	11.94	40	0.255	25.478	3.925
1946	8.44	98	0.624	62.420	1.602
1947	6.51	120	0.764	76.433	1.308
1948	6.65	117	0.745	74.522	1.342
1949	10.42	62	0.395	39.490	2.532
1950	8.63	95	0.605	60.510	1.653
1951	6.73	115	0.732	73.248	1.365
1952	17.27	8	0.051	5.096	19.625
1953	6.54	119	0.758	75.796	1.319
1954	9.13	88	0.561	56.051	1.784
1955	7.32	113	0.720	71.975	1.389
1956	4.41	150	0.955	95.541	1.047
1957	9.26	85	0.541	54.140	1.847
1958	14.15	29	0.185	18.471	5.414
1959	4.70	149	0.949	94.904	1.054
1960	7.47	111	0.707	70.701	1.414
1961	3.44	156	0.994	99.363	1.006
1962	9.59	76	0.484	48.408	2.066
1963	5.88	131	0.834	83.439	1.198
1964	5.15	142	0.904	90.446	1.106
1965	8.81	90	0.573	57.325	1.744
1966	14.76	23	0.146	14.650	6.826
1967	10.86	53	0.338	33.758	2.962
1968	7.86	107	0.682	68.153	1.467
1969	11.48	46	0.293	29.299	3.413
1970	6.33	125	0.796	79.618	1.256
1971	8.03	105	0.669	66.879	1.495
1972	6.12	127	0.809	80.892	1.236
1973	10.99	51	0.325	32.484	3.078
1974	6.59	118	0.752	75.159	1.331
1975	10.64	58	0.369	36.943	2.707
1976	10.14	64	0.408	40.764	2.453
1977	9.18	87	0.554	55.414	1.805

Water Year	Rainfall	Rank	P(exceed)	Exceed%	ReturnRate
1978	17.30	7	0.045	4.459	22.429
1979	14.93	21	0.134	13.376	7.476
1980	15.62	16	0.102	10.191	9.813
1981	8.13	104	0.662	66.242	1.510
1982	11.85	42	0.268	26.752	3.738
1983	18.49	4	0.025	2.548	39.250
1984	5.37	138	0.879	87.898	1.138
1985	9.60	75	0.478	47.771	2.093
1986	14.95	20	0.127	12.739	7.850
1987	9.30	83	0.529	52.866	1.892
1988	12.44	36	0.229	22.930	4.361
1989	5.88	131	0.834	83.439	1.198
1990	7.62	110	0.701	70.064	1.427
1991	12.31	37	0.236	23.567	4.243
1992	12.48	35	0.223	22.293	4.486
1993	18.26	5	0.032	3.185	31.400
1994	9.93	66	0.420	42.038	2.379
1995	17.13	10	0.064	6.369	15.700
1996	5.18	140	0.892	89.172	1.121
1997	7.73	108	0.688	68.790	1.454
1998	17.16	9	0.057	5.732	17.444
1999	6.50	121	0.771	77.070	1.298
2000	5.75	134	0.854	85.350	1.172
2001	8.57	96	0.611	61.146	1.635
2002	3.30	157	1.000	100.000	1.000
2003	10.31	63	0.401	40.127	2.492
2004	5.18	140	0.892	89.172	1.121
2005	22.60	3	0.019	1.911	52.333
2006	5.97	129	0.822	82.166	1.217
2007	3.59	155	0.987	98.726	1.013

APPENDIX 4. RECENT AERIAL PHOTOGRAPHS OF THE STUDY AREA













