# **Wetland Delineation Report**

# Los Banos Creek Channel Vegetation Removal

Vegetation and Sediment Maintenance Program at Los Banos Detention Dam

## **Prepared for:**

San Luis Field Division Department of Water Resources

## **Prepared by:**

Environmental Services Section South Central Regional Office Department of Water Resources June 2009

#### Introduction

The Department of Water Resources (DWR) releases water from the Los Banos Creek Reservoir at the Los Banos Detention Dam (LBDD) through outlet works that spill into the Los Banos Creek channel. DWR is proposing to clear the vegetation from the Los Banos Creek channel downstream of the outlet works and spillway. Vegetation removal from the Los Banos Creek channel will allow safe downstream channel capacity (1000 cubic feet per second) below the dam.

The Los Banos Creek channel was inspected by CA Department of Water Resources, South Central Regional Office, Environmental Scientists. Between March 14 and May 12, 2009, a wetland delineation was made to clearly determine wetland boundaries. Project impacts will be assessed through the delineation.

## **Project Location**

Los Banos Creek, an ephemeral creek, begins in the Diablo Range in San Benito County. It then flows into the Los Banos Creek Reservoir. The project area, at the LBDD and channel, is approximately 7 miles southwest of Los Banos, California.

From CA-99 take CA-152 West, turn Left onto Ortigalita Rd., Right onto Pioneer Rd., Left onto Canyon Rd.



#### **Site Conditions**

#### Vegetation

Vegetative communities on the project site include cottonwood riparian, scrub, and non-native grassland.

#### Soils

The Natural Resources Conservation Service (NRCS) describes the soils in the project area as channeled Mollic Xerofluvents (CMX) and extremely gravelly Xerofluvents (EGX).

According to the NRCS, CMX are characterized as deep, poorly drained soils on flood plains of mountain and foothill streams. CMX are formed in gravelly alluvium derived from various kinds of rock. The slope is 0 to 2 percent. There is no typical profile; however, brown sandy loam, about 24 inches think, is commonly observed. The underlying material to a depth of 60 inches or more is extremely gravelly sand that is 30 percent cobbles and 60 percent gravel. In some areas the surface layer is fine sandy loam or loam.

EGX are characterized as deep, poorly drained to well-drained soils in channels and on flood plains in and adjacent to streams on mountains and foothills. EGX formed in gravelly alluvium derived from various kinds of rock. The slope is 0 to 2 percent. There is no typical profile; however, brown and grayish brown extremely gravelly loamy and clayey material to a depth of 60 inches or more is commonly observed. It is 60 to 90 percent gravel and cobbles.

#### Climate

On average, there are 260 sunny days per year in Los Banos, CA. The area receives an annual average of 9 to 10 inches of precipitation. The climate is semiarid with hot, dry summers and cool, foggy winters.

### **Survey Methodology**

A data form for the Arid West Region (see appendix for field data) was used to determine hydrophytic vegetation, hydric soils, and wetland hydrology.

#### **Determination of Hydrophytic Vegetation**

Vegetation and percent cover within a 40 foot radius of soil pit sites was recorded on the Arid West Region data form.

In the southwestern area of the project site, transects were laid out and vegetation was recorded every 2 feet. Transects started at the edge of the water in the channel and continued to 200 feet or just after exiting the floodplain area, whichever was first. Vegetative percent cover was recorded within a 40 foot radius from the center of each transect. A list of species for each transect is found in the appendix, Table 1.

The presence of hydrophytic vegetation was determined using indicators stated in the 1987 U.S. Army Corps of Engineers Wetland Delineation Manual. The primary indicator of hydrophytic vegetation is areas having more than 50 percent of the dominant species being obligate wetland plants (OBL), facultative wetland plants (FACW), or facultative plants (FAC).

#### **Determination of Hydric Soils**

Soil survey information was obtained from the United States Department of Agriculture Web Soil Survey site, and from Natural Resources Conservation Soil Survey Manuscripts. Soil pits were dug using procedures outlined in the Field Guide for Wetland Delineation: 1987 Corps of

Engineers Manual. However, most pits were dug to a depth of 7 or more inches, but not more than 14 inches deep. Soils were difficult to dig through because of the quantity of cobbles and pebbles.

Soil samples were examined in the field by hand texturing, using the Munsell Soil Color Charts and Pocket Guide to Hydric Soil Field Indicators, and assessing soil features such as mottling. Results were recorded on the data form.

#### **Determination of Wetland Hydrology**

Wetland hydrology was determined to be present if water tended to collect or flow, either permanently or periodically, from a direct water source, or if the soils and local conditions were such that groundwater remained close to the soil surface during the hydrophytic vegetation growing season. Hydrologic indicators were recorded on the data form.

#### **Determination of Wetland Boundaries**

Wetland boundaries were determined based on the presence or inference of positive indicators of wetland criteria. Soil samples were examined in both wetlands and adjacent uplands, particularly in areas difficult to define.

In most cases, wetland boundaries could be identified visually using abrupt vegetative community changes and topographic divisions, such as slope, for determination. But, pits were dug and vegetative communities were evaluated to confirm assessment.

#### **Results**

All areas immediately surrounding the project site were assessed for wetland hydrology, soils, and vegetation, even those outside the project boundaries. Wetland boundaries are defined and described in Map 1 found in the appendix.

However, final calculations for wetland impacts were measured only within the engineer boundary specifications.

#### Vegetation

Vegetation in the channel consists of dense *Typha* sp., *Juncus balticus*, and *Scirpus americanus*. The project area also has a large amount of *Lepidium latifolium*. Other dominant vegetation on the project site includes *Heliotropium curassavicum*, *Atriplex lentiformis*, *Melilotus indica*, *Senecio vulgaris*, *Prosopis velutina*, *Frankenia salina*, *Cotula coronopifolia*, *Hemizonia pungens* ssp. *pungens*, and various non-native grasses. Native trees in the channel and surrounding area were recorded and mapped (see Map 2 in the appendix).

The southwestern portion provided a challenge in that it had irregular topography, a toe drain with intermittent discharge, possible overflow from the channel at high flows, and scattered hydrophytic vegetation with upland species. Although some edge areas within the south western portion of the floodplain consisted of more than 50 percent *Lepidium latifolium*, a FACW species, the soils it inhabited could not be considered hydric. However, much of this area is not within the engineer boundary specifications of the project.

All remaining vegetative communities in proximity to the Los Banos Creek channel area had clearer vegetative boundaries, and therefore assessment was straightforward and unproblematic.

#### Soils

Outside of the water channel, but within the wetland boundary, the majority of the project area consists of a matrix with redoximorphic features, and a clay loam or sandy clay loam texture with a moderate amount of pebbles and cobbles. Outside the wetland boundary, the area consists primarily of clay loam, loam, and silt loam with a very high percentage of pebbles and cobbles.

Some hydric soils in the project area were indicated by a redoximorphic dark surface in the soil matrix.

At some localities within the southwestern portion there were solid indications of hydrology and hydric soils, while just a few feet away in a similar location, with similar vegetation, slope, elevation, and topography, soils did not exhibit wetland characteristics such as low chroma or mottling. The irregularity made delineating a boundary a challenge. But, again, most of this area was outside the project site boundaries.

#### **Hydrology**

The overall flow or ponding of water remains within a clearly defined creek channel. However, in the southwestern area there are topographic inconsistencies, intermittent releases of water from a toe drain, as well as occasional or seasonal flooding. There is also obvious seasonal flooding and ponding of other areas tied to, but just outside of, the project site; obvious because these areas plainly show an ordinary high water mark.

In the southwestern area, we speculate that water tends to move and flow in an unpredictable pattern. The topography creates several high and low points. Therefore, it was necessary to separate upland areas within the wetland boundary created in this section of the project site. Areas within the wetland boundary determined to be non-wetland, or upland, will be subtracted from final wetland delineation measurements.

Soils in some of the drier areas of the wetland showed obvious signs of wetland hydrology, like a salt crust.

## **Conclusion on Impacts**

The total wetland area delineated and measured within the engineer boundary specifications and the total area directly impacted by the project is approximately 12,105 square meters, or 3 acres.

#### References

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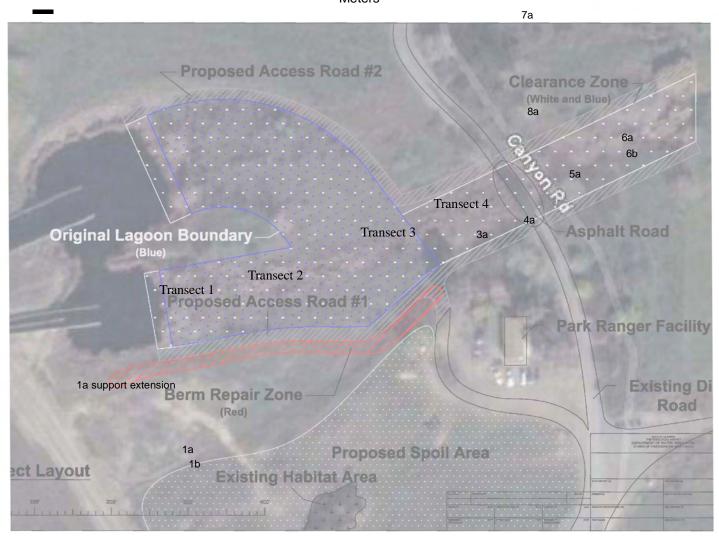
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# **APPENDIX**

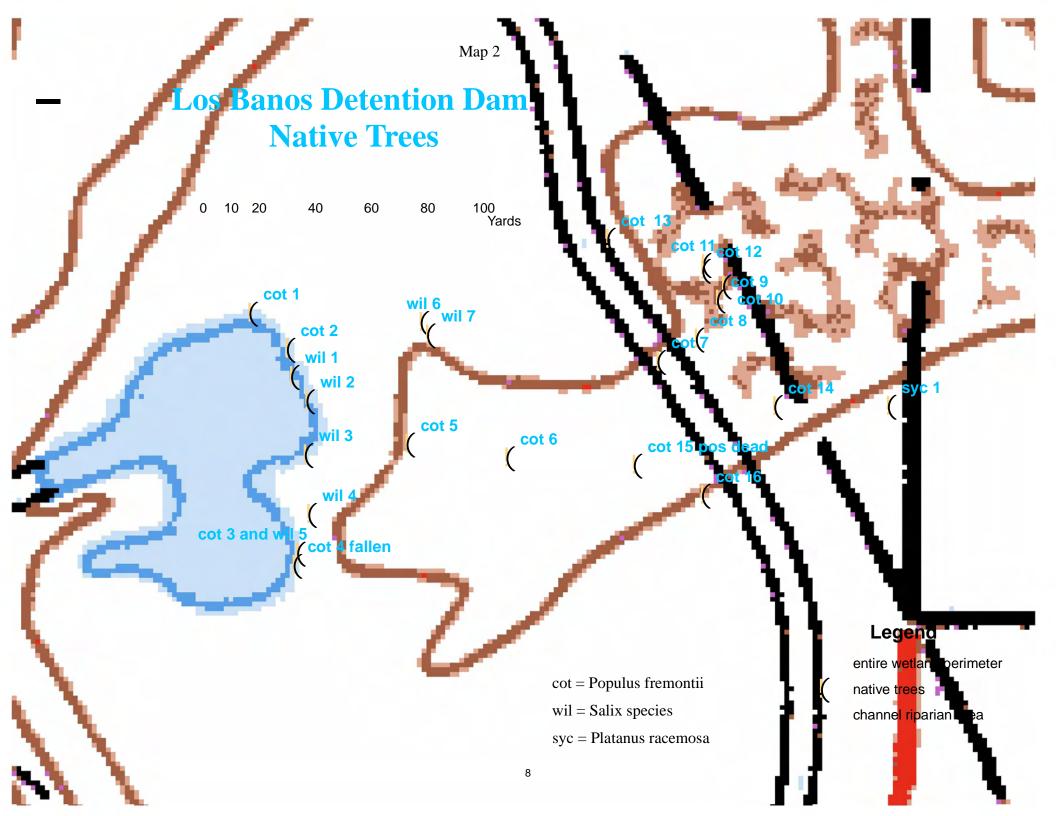
# **Los Banos Detention Dam Wetland Delineation**

0 12.5 25 50 75 100 Meters



## Legend

transect start-end
soil profile dig holes
engineers boundary specifications
entire wetland perimeter
upland areas within delineation



## **Plant, Shrub, and Tree Species On and Around Transects**

## Los Banos Detention Dam Wetland Delineation

#### Plant Species (transects begin at waters edge and do no include species in water)

Transect 1	Transect 2	Transect 3	Transect 4
Atriplex lentiformis	Bromus diandrus	Bromus diandrus	Brassica sp.
Bromus diandrus	Bromus hordeaceous	Bromus hordeaceous	Carduus tenuiflorus
Bromus hordeaceous	Bromus madritensis	Bromus madritensis	Centauria solstitialis
Bromus madritensis	Centaurea solstitialis	Cynodon dactylon	Cynodon dactylon
Centaurea solstitialis	Cynodon dactylon	Epilobium brachycarpum	Frankenia salina
Circium vulgare	Digitaria sanguinalis	Eucalyptus grandis	Juncus balticus
Cotula coronopifolia	Distichlis spicata	Frankenia salina	Lepidium latifolium
Cynodon dactylon	Frankenia salina	Heliotropium curassavicum	Marrubium vulgare
Distichlis spicata	Hordeum marinum	Hemizona pungens	Melilotus indica
Frankenia salina	Lepidium latifolium	Lepidium latifolium	Populus fremontii
Grindelia camporum	Melilotus indica	little grass in water	Prosopis velutina
Hemizonia pungens	Scirpus americanus	Marrubium vulgare	Sciprus americanus
Hordeum marinum	small unknown herb	Melilotus indica	Vulpia myuros
Lepidium Latifolium	Vulpia myuros	Picris echioides	
Melilotus indica		Prosopis velutina	
Prosopis velutina		Scirpus americanus	
Salsola tragus		Vulpia myuros	
Scirpus americanus			
Senecio vulgare			
unknown Asteracea			
Herbaceous and Shrub Domin	 nants in 40 Meter Circle (from center of	transect)	
Lepidium 30%	Lepidium 35%	Sciprus 45%	Lepidium 45%
grasses 30%	Distichlis 20%	Juncus balticus 15%	Frankenia 15%
Prosopis 15%	Frankenia 15%	Prosopis 15%	Scirpus 15%
Senecio 10%	Cynodon 10%	Typha latifolia 15%	Prosopis 10%
Atriplex 5%	Bromus & Hordeum 5%	Lepidium 10%	grasses 5%
Heliotrope <5%	Digitaria < 2%	Populus fremontii <5%	Juneus 3%
_		Melilotus 2%	Typha 2%
		Baccharis salicifolia 1%	Hemizonia 2%
			Eucalyptus <2%
			Marrubium 1%

Project/Site: <u> </u>	City/County	. Marc	Sampling Date: 5-8-6
Applicant/Owner:		Sec. Sec.	State: Sampling Point:
Investigator(s): LC, CV	Section, To	wnship, Ran	nge:
Landform (hillslope, terrace, etc.): Jallan Chil	Local relie	f (concave, c	convex, none): Concauc Slope (%):
Subregion (LRR):	Lat:		Long: Datum:
Soil Map Unit Name: OV+CVI+2 Pea	KNW		NWI classification:
Are climatic / hydrologic conditions on the site typical for	this time of year? Yes	No C	(If no, explain in Remarks.)
Are Vegetation Soil or Hydrology	significantly disturbed?	Are "I	Normal Circumstances" present? Yes No C
Are Vegetation Soil or Hydrology	naturally problematic?	(If ne	eded, explain any answers in Remarks.)
SUMMARY OF FINDINGS - Attach site ma	p showing samplin	g point lo	cations, transects, important features, etc
Hydrophytic Vegetation Present?  Hydric Soil Present?  Wetland Hydrology Present?  Yes  Yes		ne Sampled nin a Wetlan	- AP
Remarks: 40 M radius			
VEGETATION			
Tree Stratum (Use scientific names.)	Absolute Dominant % Cover Species?	Indicator   Status	Dominance Test worksheet:  Number of Dominant Species
1. Pragatis Nutsesset	87 V	1196	That Are OBL, FACW, or FAC: 0 (A)
2.		27	Total Number of Dominant
3.			Species Across All Strata: 0 (B)
4.			Percent of Dominant Species
Total C	over: %		That Are OBL, FACW, or FAC: 400 % (A/B)
1.			Prevalence Index worksheet:
2. Atrialex triationalex leave	6 1	FACU	Total % Cover of: Multiply by:
3. Name		1	OBL species x1 = 0
4.			FACW species
5			FAC species x 3 = 0 9
Total Co	over: %		FACU species x4= 0 4 UPL species x5= 0 3
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2. Leoiduum	(10)	Freik	Column Totals: 13 (A) 0 45 (B
3. Cotula		FICU	Prevalence Index = B/A =
4. Hemizonia	5	FAC	Hydrophytic Vegetation Indicators:
5. Holibron	_5	6RI	Dominance Test is >50%
6. promised a		FRE	Prevalence Index is ≤3.0¹  Morphological Adaptations¹ (Provide supporting
8. Will 6 the		FACU	data in Remarks or on a separate sheet)
	over: 27 %	FAC	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
Woody Vine Stratum 2000 CLAL	~ % V	UPL	
1. Smean Village	1270 1/	NT.	Indicators of hydric soil and wetland hydrology must be present.
2	1		
	over:  % over of Biotic Crust	%	Hydrophytic Vegetation Present?  Yes No
Remarks:		<del></del>	
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Sampling Point:

							J. J	the absence		
Depth (inches)	Color (m	Matrix oist) %	Color	Redox (moist)	Features %	Type <sup>1</sup>	Loc2	Texture <sup>3</sup>	Remarks	
V-111	2.5 Y		2.5		10	C	M	SCL	slightly docked	M. A.
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لسسما	pipedon (A2)		H	Stripped Ma	- 14 Sept. 1997			<u> </u>	Muck (A10) (LRR B)	We tall the control
L	listic (A3)	•	H	Loamy Mucl		I (F1)			ed Vertic (F18)	
L	en Sulfide (A	4)	H	Loamy Gley	•			<u> </u>	arent Material (TF2)	
	ed Layers (A5		.   =	Depleted Ma		•		Other	(Explain in Remarks)	
1 cm M	luck (A9) (LR	R D)	凤	Redox Dark	Surface	(F6)		As .	st Sail	
		k Surface (A11		Depleted Da				2.0		
	ark Surface (	The state of the s		Redox Depr	6	F8)		4		
	Mucky Minera			Vernal Pool	s (F9)				of hydrophytic vegetation and	
<del></del>	Gleyed Matrix		1	A.		1		wetiano	hydrology must be present.	
	Layer (if pre	sentj.	100							
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Wetland Hy Primary Ind Surface High W Saturat Water I Sedime Surface Inundat Water-I Field Obse Surface Water Table Saturation I (includes ca	ydrology Indicators (any ce Water (A1)  /ater Table (Ation (A3)  Marks (B1) (Nath Deposits (B3) (Interposits (B3) (Interposits (B3) (Interposits (B3))  Attributed Leaver (And Leaver Present?  Present?  Present?	cone indicator is  cone indicator in  cone indicator is  cone indicator in  cone indicator is  cone indicator in  cone in  cone indicator in  cone indicator in  cone indicator in  cone	ine)	Biotic Crus Aquatic Inv Hydrogen Oxidized R Presence of Recent Iro Other (Exp Depth (inc	ot (B12) vertebrate Sulfide O Rhizosphe of Reduce n Reducti plain in Re ches): ches):	dor (C1) res along ed Iron (C on in Plov emarks)	4) ved Soils (0	ots (C3)	Vater Marks (B1) (Riverine) rediment Deposits (B2) (Riverine) rift Deposits (B3) (Riverine) rainage Patterns (B10) ry-Season Water Table (C2) hin Muck Surface (C7) rayfish Burrows (C8) raturation Visible on Aerial Imager	)
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Primary Ind Surface High W Saturat Water I Sedime Surface Inundat Water-Field Obse Surface Water Table Saturation I (includes ca	ydrology Indicators (any ce Water (A1)  /ater Table (Ation (A3)  Marks (B1) (Nath Deposits (B3) (Interposits (B3) (Interposits (B3) (Interposits (B3))  Attributed Leaver (And Leaver Present?  Present?  Present?	cone indicator is  cone indicator in  cone indicator is  cone indicator in  cone indicator is  cone indicator in  cone in  cone indicator in  cone indicator in  cone indicator in  cone	ine)	Biotic Crus Aquatic Inv Hydrogen Oxidized R Presence of Recent Iro Other (Exp Depth (inc	ot (B12) vertebrate Sulfide O Rhizosphe of Reduce n Reducti plain in Re ches): ches):	dor (C1) res along ed Iron (C on in Plov emarks)	4) ved Soils (0	ots (C3)	Vater Marks (B1) (Riverine) rediment Deposits (B2) (Riverine) rift Deposits (B3) (Riverine) rainage Patterns (B10) ry-Season Water Table (C2) hin Muck Surface (C7) rayfish Burrows (C8) raturation Visible on Aerial Imager shallow Aquitard (D3) AC-Neutral Test (D5)	y (C9)
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Primary Ind Surface High W Saturat Water I Sedime Drift De Surface Inundar Water-Field Obse Surface Wa Water Table Saturation I (includes ca Describe Re	ydrology Indicators (any ce Water (A1)  /ater Table (Ation (A3)  Marks (B1) (Nent Deposits (B3) (Ie Soil Cracks tion Visible of Stained Leavervations:  ater Present?  Present?  present?  present?	Ionriverine) (B2) (Nonriverine) (B6) (B6) (A Aerial Imageres (B9)  Yes Yes (Stream gauge	ine)	Biotic Crus Aquatic Inv Hydrogen Oxidized R Presence of Recent Iro Other (Exp Depth (inc	ot (B12) vertebrate Sulfide O Rhizosphe of Reduce n Reducti plain in Re ches): ches):	dor (C1) res along ed Iron (C on in Plov emarks)	4) ved Soils (0	ots (C3)	Vater Marks (B1) (Riverine) rediment Deposits (B2) (Riverine) rift Deposits (B3) (Riverine) rainage Patterns (B10) ry-Season Water Table (C2) hin Muck Surface (C7) rayfish Burrows (C8) raturation Visible on Aerial Imager shallow Aquitard (D3) AC-Neutral Test (D5)	y (C9)
Wetland Hy Primary Ind Surface High W Saturat Water I Sedime Surface Inundat Water-Field Obse Surface Water Table Saturation I (includes ca Describe Remarks:	ydrology Indicators (any ce Water (A1)  /ater Table (Ation (A3)  Marks (B1) (Nent Deposits (B3) (Ie Soil Cracks tion Visible of Stained Leavervations:  ater Present?  Present?  present?  present?	Ionriverine) (B2) (Nonriverine) (B6) (B6) (A Aerial Imageres (B9)  Yes Yes (Stream gauge	ine)  y (B7)  No O  No O  No Mo  e, monitoring	Biotic Crus Aquatic Inv Hydrogen Oxidized R Presence of Recent Iro Other (Exp Depth (inc	ot (B12) vertebrate Sulfide O Rhizosphe of Reduce n Reducti plain in Re ches): ches):	dor (C1) res along ed Iron (C on in Plov emarks)	4) ved Soils (0	ots (C3)	Vater Marks (B1) (Riverine) rediment Deposits (B2) (Riverine) rift Deposits (B3) (Riverine) rainage Patterns (B10) ry-Season Water Table (C2) hin Muck Surface (C7) rayfish Burrows (C8) raturation Visible on Aerial Imager shallow Aquitard (D3) AC-Neutral Test (D5)	y (C9)
Primary Ind Surface High W Saturat Water I Sedime Drift De Surface Inundat Water-Field Obse Surface Water Table Saturation I (includes ca Describe Re	ydrology Indicators (any ce Water (A1)  /ater Table (Ation (A3)  Marks (B1) (Nent Deposits (B3) (Ie Soil Cracks tion Visible of Stained Leavervations:  ater Present?  Present?  present?  present?	Ionriverine) (B2) (Nonriverine) (B6) (B6) (A Aerial Imageres (B9)  Yes Yes (Stream gauge	ine)  y (B7)  No O  No O  No Mo  e, monitoring	Biotic Crus Aquatic Inv Hydrogen Oxidized R Presence of Recent Iro Other (Exp Depth (inc	ot (B12) vertebrate Sulfide O Rhizosphe of Reduce n Reducti plain in Re ches): ches):	dor (C1) res along ed Iron (C on in Plov emarks)	4) ved Soils (0	ots (C3)	Vater Marks (B1) (Riverine) rediment Deposits (B2) (Riverine) rift Deposits (B3) (Riverine) rainage Patterns (B10) ry-Season Water Table (C2) hin Muck Surface (C7) rayfish Burrows (C8) raturation Visible on Aerial Imager shallow Aquitard (D3) AC-Neutral Test (D5)	y (C9)
Primary Ind Surface High W Saturat Water I Sedime Drift De Surface Inundat Water-Field Obse Surface Water Table Saturation I (includes ca Describe Re	ydrology Indicators (any ce Water (A1)  /ater Table (Ation (A3)  Marks (B1) (Nent Deposits (B3) (Ie Soil Cracks tion Visible of Stained Leavervations:  ater Present?  Present?  present?  present?	Ionriverine) (B2) (Nonriverine) (B6) (B6) (A Aerial Imageres (B9)  Yes Yes (Stream gauge	ine)  y (B7)  No O  No O  No Mo  e, monitoring	Biotic Crus Aquatic Inv Hydrogen Oxidized R Presence of Recent Iro Other (Exp Depth (inc	ot (B12) vertebrate Sulfide O Rhizosphe of Reduce n Reducti plain in Re ches): ches):	dor (C1) res along ed Iron (C on in Plov emarks)	4) ved Soils (0	ots (C3)	Vater Marks (B1) (Riverine) rediment Deposits (B2) (Riverine) rift Deposits (B3) (Riverine) rainage Patterns (B10) ry-Season Water Table (C2) hin Muck Surface (C7) rayfish Burrows (C8) raturation Visible on Aerial Imager shallow Aquitard (D3) AC-Neutral Test (D5)	y (C9)

Project/Site: LBDD	City/C	County: Me	reed	Sampling Date: 5/8/09
Applicant/Owner:	-		State: (A	Sampling Point:
Investigator(s): L(, CV	Section	on, Township, Ran	ige:	
Landform (hillslope, terrace, etc.):	Loca	l relief (concave, c	onvex, none): Non	Slope (%):
Subregion (LRR):	Lat:		Long:	Datum:
Soil Map Unit Name:			NWI classific	cation:
Are climatic / hydrologic conditions on the site typical for t	his time of year? Y	es No C	(If no, explain in R	Remarks.)
Are Vegetation Soil or Hydrology	significantly distur	bed? Are "I	Normal Circumstances" ¡	present? Yes No No
Are Vegetation Soil or Hydrology	naturally problema	atic? (If nee	eded, explain any answe	ers in Remarks.)
SUMMARY OF FINDINGS - Attach site map	showing sam	pling point lo	cations, transects	, important features, etc.
Hydrophytic Vegetation Present? Yes	No 💮			
Hydric Soil Present? Yes @	No 🌘	is the Sampled		lend.
Wetland Hydrology Present? Yes Remarks:	No 🏈	within a Wetlan	d? Yes ()	No 🐼
·		. 3	<b>94.</b>	
Support area la w	ethand r	rock of	- Availage	chame
VEGETATION				
Trans Observation (Uses a significant and a sign		inant Indicator	Dominance Test work	(sheet:
Tree Stratum (Use scientific names.)  1.	% Cover Spec	cies? Status	Number of Dominant S That Are OBL, FACW,	
2.			•	CH CHEARAITEACH
3.			Total Number of Domir Species Across All Stra	The state of the s
4.			Percent of Dominant S	pecies /an
Total Co Sapling/Shrub Stratum	ver: %		That Are OBL, FACW,	
1. 4 - (00)	10	FACO	Prevalence Index wo	rksheet:
2. 06000 C	<del>-                                    </del>	UPC	Total % Cover of:	Multiply by:
3. /			OBL species	x 1 = 0
4.		<del></del>	FACW species FAC species	x 2 = 0 x 3 = 0
5. Total Co	VAT: 9%		FAC species	x4= 0
Herb Stratum	VCI.		UPL species	x 5 = 0
1. Frankenik	Angelian of Alexander	THE MULL	Column Totals:	(A) <b>0</b> (B)
2. / 10 ours		Far (1)	Prevalence Index	v = R/Δ =
3. 4.		<u> </u>	Hydrophytic Vegetat	4. No. 2017
5. Execució		<u> </u>	Dominance Test is	
6. Carinalia		Chev	Prevalence Index	
7. Heliotrone		000	Morphological Ada	aptations <sup>1</sup> (Provide supporting ks or on a separate sheet)
8. CV 5.6		# A C		ophytic Vegetation¹ (Explain)
Total Co	ver: 2 %	FACU.		·
1. Lenk month (VAS)	_ < 1	7 NI 1982		oil and wetland hydrology must
2. Bys hoved	Free 1	UPI	be present.	
	ver: <b>48</b> %		Hydrophytic Vegetation	
	over of Biotic Crust	<u>%</u>	, ,	es C No C
Remarks:				
	V			

US Army Corps of Engineers

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Value como

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	110	
Sampling Poin	t: 11/2	
	- 44624	

1 D //		rm the absence of indicators.)
Depth Matrix (inches) Color (moist) %	Redox Features  Color (moist) % Type¹ Loc²	Texture <sup>3</sup> Remarks
0-12" 101R 2/1	164R 4/6 <1 < M	CL lots of organic matter
1/2- 2.54 3/2 20		S(gard) to rocky to die de
1.3 1 3/ 4 20		
	. <u> </u>	
	• · · · · · · · · · · · · · · · · · · ·	
		A STATE OF THE STA
<sup>1</sup> Type: C=Concentration, D=Depletion, RM	/=Reduced Matrix. <sup>2</sup> Location: PL=Pore Lining,	
		pam, Silty Clay Loam, Silt Loam, Silt, Loamy Sand, Sand.
Hydric Soil Indicators: (Applicable to all L	RRs, unless otherwise noted.)	Indicators for Problematic Hydric Soils:
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) Hydrogen Sulfide (A4)	Loamy Mucky Mineral (F1) Loamy Gleyed Matrix (F2)	Reduced Vertic (F18) 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)	
Sandy Mucky Mineral (S1)	Vernal Pools (F9)	⁴Indicators of hydrophytic vegetation and
Sandy Gleyed Matrix (S4)  Restrictive Layer (if present):		wetland hydrology must be present.
Type:		
Depth (inches):		Hydric Soil Present? Yes No
Remarks:		Tryuno con riesenti res
	and the second of the second o	
La companya da la co		
HYDROLOGY		
HYDROLOGY  Wetland Hydrology Indicators:		Secondary Indicators (2 or more required)
and the second s	fficient)	Secondary Indicators (2 or more required)  Water Marks (B1) (Riverine)
Wetland Hydrology Indicators:  Primary Indicators (any one indicator is su  Surface Water (A1)	fficient)  Salt Crust (B11)	
Wetland Hydrology Indicators:  Primary Indicators (any one indicator is su  Surface Water (A1)  High Water Table (A2)	Salt Crust (B11) Biotic Crust (B12)	Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine)
Wetland Hydrology Indicators:  Primary Indicators (any one indicator is su  Surface Water (A1)  High Water Table (A2)  Saturation (A3)	Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrates (B13)	Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10)
Wetland Hydrology Indicators:  Primary Indicators (any one indicator is su  Surface Water (A1)  High Water Table (A2)  Saturation (A3)  Water Marks (B1) (Nonriverine)	Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1)	Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2)
Wetland Hydrology Indicators:  Primary Indicators (any one indicator is su  Surface Water (A1)  High Water Table (A2)  Saturation (A3)  Water Marks (B1) (Nonriverine)  Sediment Deposits (B2) (Nonriverine)	Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living R	Water Marks (B1) (Riverine)  Sediment Deposits (B2) (Riverine)  Drift Deposits (B3) (Riverine)  Drainage Patterns (B10)  Dry-Season Water Table (C2)  Thin Muck Surface (C7)
Wetland Hydrology Indicators:  Primary Indicators (any one indicator is su  Surface Water (A1)  High Water Table (A2)  Saturation (A3)  Water Marks (B1) (Nonriverine)  Sediment Deposits (B2) (Nonriverine)  Drift Deposits (B3) (Nonriverine)	Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living R Presence of Reduced Iron (C4)	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)
Wetland Hydrology Indicators:  Primary Indicators (any one indicator is sue 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)	Salt Crust (B11)  Biotic Crust (B12)  Aquatic Invertebrates (B13)  Hydrogen Sulfide Odor (C1)  Oxidized Rhizospheres along Living R  Presence of Reduced Iron (C4)  Recent Iron Reduction in Plowed Soils	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)  Set (C6)  Saturation Visible on Aerial Imagery (C9)
Wetland Hydrology Indicators:  Primary Indicators (any one indicator is su  Surface Water (A1)  High Water Table (A2)  Saturation (A3)  Water Marks (B1) (Nonriverine)  Sediment Deposits (B2) (Nonriverine)  Drift Deposits (B3) (Nonriverine)	Salt Crust (B11)  Biotic Crust (B12)  Aquatic Invertebrates (B13)  Hydrogen Sulfide Odor (C1)  Oxidized Rhizospheres along Living R  Presence of Reduced Iron (C4)  Recent Iron Reduction in Plowed Soils	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)
Wetland Hydrology Indicators:  Primary Indicators (any one indicator is sue 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 (	Salt Crust (B11)  Biotic Crust (B12)  Aquatic Invertebrates (B13)  Hydrogen Sulfide Odor (C1)  Oxidized Rhizospheres along Living R  Presence of Reduced Iron (C4)  Recent Iron Reduction in Plowed Soils	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)  Set (C6)  Saturation Visible on Aerial Imagery (C9)
Wetland Hydrology Indicators:  Primary Indicators (any one indicator is sue 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 (Water-Stained Leaves (B9).	Salt Crust (B11)  Biotic Crust (B12)  Aquatic Invertebrates (B13)  Hydrogen Sulfide Odor (C1)  Oxidized Rhizospheres along Living R  Presence of Reduced Iron (C4)  Recent Iron Reduction in Plowed Soils	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)
Wetland Hydrology Indicators:  Primary Indicators (any one indicator is sue 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 (Water-Stained Leaves (B9)  Field Observations:  Surface Water Present?  Yes	Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living R Presence of Reduced Iron (C4) Recent Iron Reduction in Plowed Soils B7) Other (Explain in Remarks)	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)
Wetland Hydrology Indicators:  Primary Indicators (any one indicator is sue 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 (Water-Stained Leaves (B9)  Field Observations:  Surface Water Present?  Water Table Present?  Yes C	Salt Crust (B11)  Biotic Crust (B12)  Aquatic Invertebrates (B13)  Hydrogen Sulfide Odor (C1)  Oxidized Rhizospheres along Living R  Presence of Reduced Iron (C4)  Recent Iron Reduction in Plowed Soils  B7)  Other (Explain in Remarks)  No Depth (inches):  No Depth (inches):	Water Marks (B1) (Riverine)  Sediment Deposits (B2) (Riverine)  Drift Deposits (B3) (Riverine)  Drainage Patterns (B10)  Dry-Season Water Table (C2)  Thin Muck Surface (C7)  Crayfish Burrows (C8)  Saturation Visible on Aerial Imagery (C9)  Shallow Aquitard (D3)  FAC-Neutral Test (D5)
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Project/Site: L3DV	City/County: Nerced Sampling Date: 5-8-09
Applicant/Owner:	State: CA Sampling Point: 2
Investigator(s):	Section, Township, Range:
Landform (hillslope, terrace, etc.): Quilly S/a+	Local relief (concave, convex, none): Slope (%): A & S
Subregion (LRR):	Long: Datum:
Soil Map Unit Name:	NWI classification:
Are climatic / hydrologic conditions on the site typical for this time of ye	
Are Vegetation Soil or Hydrology significantly	
Are Vegetation Soil or Hydrology naturally pro	
SUMMARY OF FINDINGS - Attach site map showing	sampling point locations, transects, important features, etc
Hydrophytic Vegetation Present? Yes No (%)	
Hydric Soil Present? Yes No	Is the Sampled Area
Wetland Hydrology Present? Yes No	within a Wetland? Yes & No C
Remarks:	
VEGETATION	
Absolute	Dominant Indicator   Dominance Test worksheet:
Tree Stratum (Use scientific names.) % Cover	Dominant Indicator 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: 0 (B)
4	Percent of Dominant Species
Sapling/Shrub Stratum	That Are OBL, FACW, or FAC: 0 % (A/B)
	Prevalence Index worksheet:
2.	Total % Cover of: Multiply by:
3.	OBL species x 1 = 0
4.	FACW species x 2 = 0
5.	FAC species x 3 = 0
Total Cover: %	FACU species x 4 = 0
Herb Stratum	UPL species x 5 = 0
1. Lepidum (25)	FA(W) Column Totals: (A) 0 (B)
2 Militotus Indica 5	Prevalence Index = B/A =
17/4/99	Hydrophytic Vagetation Indicators:
- Marriage 15:	Domingnoo Toot in >500/
6. Frances 17	$\frac{FH(\omega) + \frac{1}{FH(\omega)}}{FH(\omega)}$ Prevalence Index is $\leq 3.0^{\circ}$
7. Floris	─────────────────────────────────────
8. Hillatrope	data in Remarks of on a separate sheety
SCIPPLY MAY. Total Cover: 70%	- TODICII ALIC I I VALODII VIIC VEGELALIOI (LADIALI)
Woody Vine Stratum & VD data 21.	1 Indicators of hydric soil and wetland hydrology must
	be present.
Z. Total Cover: A Tay	Hydrophytic
Total Cover: 97%	vegetation
% Bare Ground in Herb Stratum % Cover of Biotic	Crust % Present? Yes No C
Remarks:	
US Army Corps of Engineers	

Sampling Point: Za

Profile Des Depth	scription: (Describe t Matrix	o the dept	in need		x Features		or commi	the absence of in	dicators.)	
(inches)	Color (moist)	<del></del> .	Color	(moist)	% reacutes	Type <sup>1</sup>	Loc <sup>2</sup>	Texture <sup>3</sup>	Rema	ks
AU	2.543/2	79%		<del>-                                    </del>		-				
$-\eta \mathcal{U}_{z}$		7/10		V = 1/	110		<u>.A.</u>		Horizon al	LANKS
·	2.5/3/2	<u> </u>	<u>25</u>	Y5/6	<u> </u>	<u>. C . </u>	M	<del></del>	Some	
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·.', .	and the second second	from section					\$5.000	J. K. A. C. Seed Jan.	was what	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
¹Type: C=	Concentration, D=Depl	etion, RM=	Reduce	d Matrix.	<sup>2</sup> Location	: PL=Pore	Lining, R	C=Root Channel, M	=Matrix.	
<sup>3</sup> Soil Textu	res: Clay, Silty Clay, S	andy Clay,	Loam,	Sandy Clay	Loam, Sa	ndy Loam	i, Clay Loa	m, Silty Clay Loam,	Silt Loam, Silt, Loan	y Sand, Sand
Hydric Soil	Indicators: (Applicabl	e to all LRF	Rs, unies	s otherwis	e noted.)		4	Indicators for Pr	oblematic Hydric Soi	ls:
Histos				Sandy Red	Constitution of Constitution			-	(A9) (LRR C)	1 - 1 - 2
	Epipedon (A2)			Stripped M				harana d	(A10) (LRR B)	
	Histic (A3)			Loamy Mu	-			Reduced Ve	, ,	
	gen Sulfide (A4)			Loamy Gle	-	(F2)		L	Material (TF2)	
	ed Layers (A5) (LRR C	•)		Depleted N				Other (Expl	ain in Remarks)	
	fluck (A9) (LRR D)	. ,		Redox Dar		•			•	A many
	ed Below Dark Surface	(A11)		Depleted D		• •				· St. 1
	Dark Surface (A12)	18 14 1		Redox Dep		<del>-</del> 8)				
	Mucky Mineral (S1)			Vernal Poo	ols (F9)	*,			drophytic vegetation	
	Gleyed Matrix (S4)	- 1mg 100	44 At 1	d" .				wetland hydr	ology must be prese	nt.
Restrictive	Layer (if present):				-					
Type:		· .	· · · · · ·						*	*.
Depth (i	nches):							Hydric Soil Pres	ent? Yes 🖯	No 🕥
Remarks:									1111	- P
	2				٠,	* * *				
				41 1						
	·	<u> </u>		•			<u> </u>			
IYDROL	OGY									
Wetland H	ydrology Indicators:							Secondary	Indicators (2 or more	e required)
Primary Inc	dicators (any one indica	ator is suffic	cient)	<u> </u>	<u> </u>			Water	Marks (B1) (Riverin	<b>)</b>
Surfac	e Water (A1)			Salt Crus	t (B11)			Sedim	ent Deposits (B2) (R	verine)
. 45.	Vater Table (A2)		-	Biotic Cru	ıst (B12)				eposits (B3) (Riverir	•
	ition (A3)		-		nvertebrate	s (B13)			ge Patterns (B10)	
	Marks (B1) (Nonriveri	ne)	<u> </u>		Sulfide O			٠٠ ليسيسا	eason Water Table (	22)
LJ	* * *	-			. 0000	101 (01)		L	ACOUNT TAKEN TABLE (	
	ant Danacite (R2) (Nar			Ovidized	Phizoenha	ree along	Living Poo	te (C3) Thin M	luck Surface (C7)	-,
	ent Deposits (B2) (Nor		F	•	Rhizosphe			· · · · · ·	luck Surface (C7)	: : :
Drift D	eposits (B3) (Nonriver			Presence	of Reduce	d Iron (C	4)	Crayfis	sh Burrows (C8)	
Drift D	eposits (B3) ( <b>Nonriver</b> e Soil Cracks (B6)	ine)		Presence Recent In	of Reduce on Reducti	d Iron (C4 on in Plov	4)	Crayfis	sh Burrows (C8) ition Visible on Aerial	
Drift D Surface Inunda	eposits (B3) ( <b>Nonriver</b> e Soil Cracks (B6) ation Visible on Aerial II	ine)	7)	Presence Recent In	of Reduce	d Iron (C4 on in Plov	4)	Crayfis C6) Satura Shallo	sh Burrows (C8) tion Visible on Aerial w Aquitard (D3)	
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Drift D Surface Inunda	eposits (B3) ( <b>Nonriver</b> le Soil Cracks (B6) ation Visible on Aerial II Stained Leaves (B9)	ine)	7)	Presence Recent In	of Reduce on Reducti	d Iron (C4 on in Plov	4)	Crayfis C6) Satura Shallo	sh Burrows (C8) tion Visible on Aerial w Aquitard (D3)	
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Drift D Surface Inunda Water Field Obse	eposits (B3) (Nonriver se Soil Cracks (B6) ation Visible on Aerial la Stained Leaves (B9) ervations: ater Present?	ine) magery (B7 es ()	No C	Presence Recent In Other (Ex	of Reduce on Reduction oplain in Re	d Iron (C4 on in Plov	4)	Crayfis C6) Satura Shallo	sh Burrows (C8) tion Visible on Aerial w Aquitard (D3)	
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Drift D Surface Inunda Water- Field Obse Surface W Water Tab Saturation (includes of Describe F	eposits (B3) (Nonriver se Soil Cracks (B6) ation Visible on Aerial In Stained Leaves (B9) ervations: ater Present? Present? Area Present? Area Present? Area Present? Area Present?	magery (B7	No C No C No C	Presence Recent Ir Other (Ex  Depth (ir Depth (ir	of Reduce on Reduction on Reduc	d Iron (C4 on in Plov marks)	4) ved Soils (0	Crayfis C6) Satura Shallo FAC-N	sh Burrows (C8) ition Visible on Aerial w Aquitard (D3) leutral Test (D5)	Imagery (C9)
Drift D Surface Inunda Water- Field Obse Surface W Water Tab Saturation (includes of Describe F	eposits (B3) (Nonriver se Soil Cracks (B6) ation Visible on Aerial In Stained Leaves (B9) ervations: ater Present? Present? Area Present? Area Present? Area Present? Area Present?	magery (B7	No C No C No C	Presence Recent Ir Other (Ex  Depth (ir Depth (ir	of Reduce on Reduction on Reduc	d Iron (C4 on in Plov marks)	4) ved Soils (0	Crayfis C6) Satura Shallo FAC-N	sh Burrows (C8) ition Visible on Aerial w Aquitard (D3) leutral Test (D5)	Imagery (C9)
Drift D Surface Inunda Water- Field Obse Surface W Water Tab Saturation (includes of Describe F	eposits (B3) (Nonriver se Soil Cracks (B6) ation Visible on Aerial In Stained Leaves (B9) ervations: ater Present? Present? Area Present? Area Present? Area Present? Area Present?	magery (B7	No C No C No C	Presence Recent Ir Other (Ex  Depth (ir Depth (ir	of Reduce on Reduction on Reduc	d Iron (C4 on in Plov marks)	4) ved Soils (0	Crayfis C6) Satura Shallo FAC-N	sh Burrows (C8) ition Visible on Aerial w Aquitard (D3) leutral Test (D5)	Imagery (C9)

Project/Site:	City/County:	wed	Sampling Date: 5-13-09
Applicant/Owner:		State:	Sampling Point: 3a
Investigator(s): LC, CV, HM	Section, Township, Ran	ge:	
Landform (hillslope, terrace, etc.):	Local relief (concave, c	onvex, none):	Slope (%):
Subregion (LRR): Lat:	· · · · · · · · · · · · · · · · · · ·	Long:	Datum:
Soil Map Unit Name:		NWI classific	cation:
Are climatic / hydrologic conditions on the site typical for this time of ye	ear? Yes ( No (	(If no, explain in R	emarks.)
Are Vegetation   Soil   or Hydrology   significantly	disturbed? Are "N	Normal Circumstances"	present? Yes ( No (
Are Vegetation Soil or Hydrology naturally pr		eded, explain any answe	·".
SUMMARY OF FINDINGS - Attach site map showing			
Hydrophytic Vegetation Present?  Hydric Soil Present?  Wetland Hydrology Present?  Yes No Wetland Hydrology Present?  No Wetland Hydrology Present?	Is the Sampled within a Wetlan		No 'Ç^*
Remarks:			
	_		
VEGETATION		$= \mathcal{L}(x) = \frac{1}{ x } = \frac{1}{ x }$	
1. (,,	Dominant Indicator Species? Status	Dominance Test work  Number of Dominant S  That Are OBL, FACW,	pecies
3.		Total Number of Domin	
4. Total Cover: %		Percent of Dominant S That Are OBL, FACW,	
Sapling/Shrub Stratum  1.		Prevalence Index wo	rksheet
2		Total % Cover of:	Multiply by:
3.		OBL species	x 1 = 0
4.		FACW species	x 2 = 0
5		FAC species	x 3 = 0
Herb Stratum Baccharis Total Cover: 21%	~	FACU species	x 4 = 0
	1740	UPL species	x 5 = 0
1. SUMMS 30		Column Totals:	(A) (B)
3. Arosons 40	FACU) VPL	Prevalence Inde	x = B/A =
4. /cc+46 41	FAC	Hydrophytic Vegetat	ion Indicators:
5. / sty S	FACUSOL	Dominance Test i	
6. Lincus 5	FAWWORL	Prevalence Index	
7. Vicris	FALX	Morphological Ad	aptations <sup>1</sup> (Provide supporting ks or on a separate sheet)
8. Men letre	FAC		ophytic Vegetation¹ (Explain)
Woody Vine Stratum Hellotytyll	% FAC OBL		
1 MUNIO	6BL	¹Indicators of hydric s be present.	soil and wetland hydrology must
2. \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	<del>//</del> 0	Hydrophytic Vegetation	
% Bare Ground in Herb Stratum  % % Cover of Biotic	: Crust%	\ =	es No C
Remarks:			
		·	
		•	

Profile Description: (Describe to the depth needed to document the indicator or conf	firm the absence of indicators.)
Depth Matrix Redox Features (inches) Color (moist) % Color (moist) % Type¹ Loc²	Texture <sup>3</sup> Remarks
0-1 2.5Y3/2	Laum
	N 1
4-7 2.5 4/2 DYR 5/6 78	
2.5Y 5/1	
IT. O.O. D. D. Lee D. D. Lee D. D. Lee D.	
<sup>1</sup> Type: C=Concentration, D=Depletion, RM=Reduced Matrix. <sup>2</sup> Location: PL=Pore Lining <sup>3</sup> Soil Textures: Clay, Silty Clay, Sandy Clay, Loam, Sandy Clay Loam, Sandy Loam, Sandy Loam, Clay Loam, Sandy Loam	, RC=Root Channel, M=Matrix.
Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)	Indicators for Problematic Hydric Soils:
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)	
Sandy Mucky Mineral (S1) Vernal Pools (F9)	⁴Indicators of hydrophytic vegetation and
Sandy Gleyed Matrix (S4)	wetland hydrology must be present.
Restrictive Layer (if present):	
Туре:	
Depth (inches):	Hydric Soil Present? Yes No V
Depth (inches):  Remarks:	Hydric Soil Present? Yes () No (V
Remarks:	Hydric Soil Present? Yes () No (
Remarks:	
Remarks:  IYDROLOGY  Wetland Hydrology Indicators:	Secondary Indicators (2 or more required)
Remarks:  IYDROLOGY  Wetland Hydrology Indicators:  Primary Indicators (any one indicator is sufficient)	Secondary Indicators (2 or more required)  Water Marks (B1) (Riverine)
Remarks:  HYDROLOGY  Wetland Hydrology Indicators:  Primary Indicators (any one indicator is sufficient)  Surface Water (A1)  Salt Crust (B11)	Secondary Indicators (2 or more required)  Water Marks (B1) (Riverine)  Sediment Deposits (B2) (Riverine)
Remarks:  HYDROLOGY  Wetland Hydrology Indicators:  Primary Indicators (any one indicator is sufficient)  Surface Water (A1) High Water Table (A2)  Biotic Crust (B12)	Secondary Indicators (2 or more required)  Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine)
Remarks:  HYDROLOGY  Wetland Hydrology Indicators:  Primary Indicators (any one indicator is sufficient)  Surface Water (A1) High Water Table (A2) Saturation (A3) Aquatic Invertebrates (B13)	Secondary Indicators (2 or more required)  Water Marks (B1) (Riverine)  Sediment Deposits (B2) (Riverine)  Drift Deposits (B3) (Riverine)  Drainage Patterns (B10)
Remarks:  HYDROLOGY  Wetland Hydrology Indicators:  Primary Indicators (any one indicator is sufficient)  Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonriverine)  Hydrogen Sulfide Odor (C1)	Secondary Indicators (2 or more required)  Water Marks (B1) (Riverine)  Sediment Deposits (B2) (Riverine)  Drift Deposits (B3) (Riverine)  Drainage Patterns (B10)  Dry-Season Water Table (C2)
Remarks:  HYDROLOGY  Wetland Hydrology Indicators:  Primary Indicators (any one indicator is sufficient)  Surface Water (A1) High Water Table (A2) Saturation (A3) Aquatic Invertebrates (B13)	Secondary Indicators (2 or more required)  Water Marks (B1) (Riverine)  Sediment Deposits (B2) (Riverine)  Drift Deposits (B3) (Riverine)  Drainage Patterns (B10)  Dry-Season Water Table (C2)
Remarks:  HYDROLOGY  Wetland Hydrology Indicators:  Primary Indicators (any one indicator is sufficient)  Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonriverine)  Hydrogen Sulfide Odor (C1)	Secondary Indicators (2 or more required)  Water Marks (B1) (Riverine)  Sediment Deposits (B2) (Riverine)  Drift Deposits (B3) (Riverine)  Drainage Patterns (B10)  Dry-Season Water Table (C2)
Remarks:  HYDROLOGY  Wetland Hydrology Indicators:  Primary Indicators (any one indicator is sufficient)  Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonriverine) Hydrogen Sulfide Odor (C1) Sediment Deposits (B2) (Nonriverine) Oxidized Rhizospheres along Living I	Secondary Indicators (2 or more required)  Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2)  Roots (C3) Thin Muck Surface (C7) Crayfish Burrows (C8)
Remarks:  HYDROLOGY  Wetland Hydrology Indicators:  Primary Indicators (any one indicator is sufficient)  Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonriverine) Sediment Deposits (B2) (Nonriverine) Drift Deposits (B3) (Nonriverine) Presence of Reduced Iron (C4)	Secondary Indicators (2 or more required)  Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2)  Roots (C3) Thin Muck Surface (C7) Crayfish Burrows (C8)
Remarks:    AyDROLOGY   Wetland Hydrology Indicators:   Primary Indicators (any one indicator is sufficient)   Salt Crust (B11)   Biotic Crust (B12)   Biotic Crust (B12)   Saturation (A3)   Aquatic Invertebrates (B13)   Hydrogen Sulfide Odor (C1)   Sediment Deposits (B2) (Nonriverine)   Oxidized Rhizospheres along Living I   Drift Deposits (B3) (Nonriverine)   Presence of Reduced Iron (C4)   Surface Soil Cracks (B6)   Recent Iron Reduction in Plowed Soil   Inundation Visible on Aerial Imagery (B7)   Other (Explain in Remarks)	Secondary Indicators (2 or more required)  Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2)  Roots (C3) Thin Muck Surface (C7) Crayfish Burrows (C8) ils (C6) Saturation Visible on Aerial Imagery (C9)
Application   Presence of Reduced Iron (C4)	Secondary Indicators (2 or more required)  Water Marks (B1) (Riverine)  Sediment Deposits (B2) (Riverine)  Drift Deposits (B3) (Riverine)  Drainage Patterns (B10)  Dry-Season Water Table (C2)  Roots (C3)  Thin Muck Surface (C7)  Crayfish Burrows (C8)  ils (C6)  Saturation Visible on Aerial Imagery (C9)  Shallow Aquitard (D3)
Remarks:  HYDROLOGY  Wetland Hydrology Indicators:  Primary Indicators (any one indicator is sufficient)  Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonriverine) Sediment Deposits (B2) (Nonriverine) Drift Deposits (B3) (Nonriverine) Drift Deposits (B3) (Nonriverine) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery (B7) Water-Stained Leaves (B9) Field Observations:	Secondary Indicators (2 or more required)  Water Marks (B1) (Riverine)  Sediment Deposits (B2) (Riverine)  Drift Deposits (B3) (Riverine)  Drainage Patterns (B10)  Dry-Season Water Table (C2)  Roots (C3)  Thin Muck Surface (C7)  Crayfish Burrows (C8)  ils (C6)  Saturation Visible on Aerial Imagery (C9)  Shallow Aquitard (D3)
Approach	Secondary Indicators (2 or more required)  Water Marks (B1) (Riverine)  Sediment Deposits (B2) (Riverine)  Drift Deposits (B3) (Riverine)  Drainage Patterns (B10)  Dry-Season Water Table (C2)  Roots (C3)  Thin Muck Surface (C7)  Crayfish Burrows (C8)  ils (C6)  Saturation Visible on Aerial Imagery (C9)  Shallow Aquitard (D3)
Wetland Hydrology Indicators:  Primary Indicators (any one indicator is sufficient)  Surface Water (A1)  High Water Table (A2)  Saturation (A3)  Water Marks (B1) (Nonriverine)  Drift Deposits (B2) (Nonriverine)  Drift Deposits (B3) (Nonriverine)  Surface Soil Cracks (B6)  Inundation Visible on Aerial Imagery (B7)  Water Stained Leaves (B9)  Field Observations:  Surface Water Present?  Yes No Depth (inches):  Water Table Present?  Ves Depth (inches):	Secondary Indicators (2 or more required)  Water Marks (B1) (Riverine)  Sediment Deposits (B2) (Riverine)  Drift Deposits (B3) (Riverine)  Drainage Patterns (B10)  Dry-Season Water Table (C2)  Roots (C3)  Thin Muck Surface (C7)  Crayfish Burrows (C8)  ils (C6)  Saturation Visible on Aerial Imagery (C9)  Shallow Aquitard (D3)
AyDROLOGY   Wetland Hydrology Indicators:   Primary Indicators (any one indicator is sufficient)   Salt Crust (B11)   Biotic Crust (B12)   Biotic Crust (B12)   Saturation (A3)   Aquatic Invertebrates (B13)   Hydrogen Sulfide Odor (C1)   Sediment Deposits (B2) (Nonriverine)   Oxidized Rhizospheres along Living   Drift Deposits (B3) (Nonriverine)   Presence of Reduced Iron (C4)   Surface Soil Cracks (B6)   Recent Iron Reduction in Plowed Soil inundation Visible on Aerial Imagery (B7)   Other (Explain in Remarks)   Water-Stained Leaves (B9)   Field Observations:   Surface Water Present?	Secondary Indicators (2 or more required)  Water Marks (B1) (Riverine)  Sediment Deposits (B2) (Riverine)  Drift Deposits (B3) (Riverine)  Drainage Patterns (B10)  Dry-Season Water Table (C2)  Roots (C3)  Thin Muck Surface (C7)  Crayfish Burrows (C8)  ils (C6)  Saturation Visible on Aerial Imagery (C9)  Shallow Aquitard (D3)
Applications	Secondary Indicators (2 or more required)  Water Marks (B1) (Riverine)  Sediment Deposits (B2) (Riverine)  Drift Deposits (B3) (Riverine)  Drainage Patterns (B10)  Dry-Season Water Table (C2)  Roots (C3)  Thin Muck Surface (C7)  Crayfish Burrows (C8)  ils (C6)  Saturation Visible on Aerial Imagery (C9)  Shallow Aquitard (D3)  FAC-Neutral Test (D5)
AyDROLOGY   Wetland Hydrology Indicators:   Primary Indicators (any one indicator is sufficient)   Salt Crust (B11)   Surface Water (A1)   Biotic Crust (B12)   Aquatic Invertebrates (B13)   Hydrogen Sulfide Odor (C1)   Sediment Deposits (B2) (Nonriverine)   Oxidized Rhizospheres along Living (Invertebrates (B3) (Nonriverine)   Presence of Reduced Iron (C4)   Surface Soil Cracks (B6)   Recent Iron Reduction in Plowed Soil Inundation Visible on Aerial Imagery (B7)   Other (Explain in Remarks)   Water-Stained Leaves (B9)   Field Observations:   Surface Water Present?   Yes (Includes Capillary fringe)   Weter-Stained Capillary fringe   Weter-Stained Capillary fringe   Weter-Stain	Secondary Indicators (2 or more required)  Water Marks (B1) (Riverine)  Sediment Deposits (B2) (Riverine)  Drift Deposits (B3) (Riverine)  Drainage Patterns (B10)  Dry-Season Water Table (C2)  Roots (C3)  Thin Muck Surface (C7)  Crayfish Burrows (C8)  ils (C6)  Saturation Visible on Aerial Imagery (C9)  Shallow Aquitard (D3)  FAC-Neutral Test (D5)
Wetland Hydrology Indicators:  Primary Indicators (any one indicator is sufficient)  Surface Water (A1)  High Water Table (A2)  Saturation (A3)  Water Marks (B1) (Nonriverine)  Drift Deposits (B2) (Nonriverine)  Drift Deposits (B3) (Nonriverine)  Drift Deposits (B3) (Nonriverine)  Water-Stained Leaves (B9)  Field Observations:  Surface Water Present?  Yes No Depth (inches):  Saturation Present?  Yes No Depth (inches):  Water Table Present?  Yes No Depth (inches):  Saturation Present?  Yes No Depth (inches):  Water-Stained Present?  Yes No Depth (inches):  Saturation Present?  Yes Depth (inches):  Saturation Present?  Yes Depth (inches):  Water-Stained Present?  Yes Depth (inches):  Saturation Present?  Yes Depth (inches):  Vereit Saturation Present?  Yes Depth (inches):	Secondary Indicators (2 or more required)  Water Marks (B1) (Riverine)  Sediment Deposits (B2) (Riverine)  Drift Deposits (B3) (Riverine)  Drainage Patterns (B10)  Dry-Season Water Table (C2)  Roots (C3)  Thin Muck Surface (C7)  Crayfish Burrows (C8)  ils (C6)  Saturation Visible on Aerial Imagery (C9)  Shallow Aquitard (D3)  FAC-Neutral Test (D5)
Wetland Hydrology Indicators:   Primary Indicators (any one indicator is sufficient)   Salt Crust (B11)   Biotic Crust (B12)   Biotic Crust (B12)   Aquatic Invertebrates (B13)   Mater Marks (B1) (Nonriverine)   Hydrogen Sulfide Odor (C1)   Sediment Deposits (B2) (Nonriverine)   Oxidized Rhizospheres along Living I   Drift Deposits (B3) (Nonriverine)   Presence of Reduced Iron (C4)   Surface Soil Cracks (B6)   Recent Iron Reduction in Plowed Soil Inundation Visible on Aerial Imagery (B7)   Other (Explain in Remarks)   Water-Stained Leaves (B9)   Field Observations:   Surface Water Present?   Yes   No   Depth (inches):   Water Table Present?   Yes   No   Depth (inches):   Saturation Present?   Yes   No   Depth (inches):   Uncludes capillary fringe)   Wescribe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspection   Presented Previous Inspection   Presented Previous Inspection   Wescribe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspection   Presented Previous Inspection   Presented Previous Inspection   Presented Previous Inspection   Presented Previous Inspection   Previou	Secondary Indicators (2 or more required)  Water Marks (B1) (Riverine)  Sediment Deposits (B2) (Riverine)  Drift Deposits (B3) (Riverine)  Drainage Patterns (B10)  Dry-Season Water Table (C2)  Roots (C3)  Thin Muck Surface (C7)  Crayfish Burrows (C8)  ils (C6)  Saturation Visible on Aerial Imagery (C9)  Shallow Aquitard (D3)  FAC-Neutral Test (D5)
Wetland Hydrology Indicators:   Primary Indicators (any one indicator is sufficient)   Salt Crust (B11)   Biotic Crust (B12)   Biotic Crust (B12)   Aquatic Invertebrates (B13)   Water Marks (B1) (Nonriverine)   Hydrogen Sulfide Odor (C1)   Sediment Deposits (B2) (Nonriverine)   Oxidized Rhizospheres along Living I   Drift Deposits (B3) (Nonriverine)   Presence of Reduced Iron (C4)   Surface Soil Cracks (B6)   Recent Iron Reduction in Plowed Soil Inundation Visible on Aerial Imagery (B7)   Other (Explain in Remarks)   Water-Stained Leaves (B9)   Field Observations:   Surface Water Present?   Yes   No   Depth (inches):   Water Table Present?   Yes   No   Depth (inches):   Saturation Present?   Yes   No   Depth (inches):   Under Recorded Data (stream gauge, monitoring well, aerial photos, previous inspection   Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspection   Presented Previous Inspection   Previou	Secondary Indicators (2 or more required)  Water Marks (B1) (Riverine)  Sediment Deposits (B2) (Riverine)  Drift Deposits (B3) (Riverine)  Drainage Patterns (B10)  Dry-Season Water Table (C2)  Roots (C3)  Thin Muck Surface (C7)  Crayfish Burrows (C8)  ils (C6)  Saturation Visible on Aerial Imagery (C9)  Shallow Aquitard (D3)  FAC-Neutral Test (D5)
Wetland Hydrology Indicators:   Primary Indicators (any one indicator is sufficient)   Salt Crust (B11)   Biotic Crust (B12)   Biotic Crust (B12)   Aquatic Invertebrates (B13)   Water Marks (B1) (Nonriverine)   Hydrogen Sulfide Odor (C1)   Sediment Deposits (B2) (Nonriverine)   Oxidized Rhizospheres along Living I   Drift Deposits (B3) (Nonriverine)   Presence of Reduced Iron (C4)   Surface Soil Cracks (B6)   Recent Iron Reduction in Plowed Soil Inundation Visible on Aerial Imagery (B7)   Other (Explain in Remarks)   Water-Stained Leaves (B9)   Field Observations:   Surface Water Present?   Yes   No   Depth (inches):   Water Table Present?   Yes   No   Depth (inches):   Saturation Present?   Yes   No   Depth (inches):   Under Recorded Data (stream gauge, monitoring well, aerial photos, previous inspection   Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspection   Presented Previous Inspection   Previou	Secondary Indicators (2 or more required)  Water Marks (B1) (Riverine)  Sediment Deposits (B2) (Riverine)  Drift Deposits (B3) (Riverine)  Drainage Patterns (B10)  Dry-Season Water Table (C2)  Roots (C3)  Thin Muck Surface (C7)  Crayfish Burrows (C8)  ils (C6)  Saturation Visible on Aerial Imagery (C9)  Shallow Aquitard (D3)  FAC-Neutral Test (D5)
Surface Water (A1)	Secondary Indicators (2 or more required)  Water Marks (B1) (Riverine)  Sediment Deposits (B2) (Riverine)  Drift Deposits (B3) (Riverine)  Drainage Patterns (B10)  Dry-Season Water Table (C2)  Roots (C3)  Thin Muck Surface (C7)  Crayfish Burrows (C8)  ils (C6)  Saturation Visible on Aerial Imagery (C9)  Shallow Aquitard (D3)  FAC-Neutral Test (D5)

DBL-FACU! FAC FACU NPL

Project/Site: RDD	City	/County: / 🍇 🖧	in I Marie 1	Sampling Date: 5/12/09
Applicant/Owner:	Oity	rooding. The second	State:	Sampling Point:
nvestigator(s): LCs CV H	-NA Sec	ction, Township, Rai		- Gambing & Gine.
andform (hillslope, terrace, etc.):	<u> </u>	cal relief (concave,		Slope (%):
ubregion (LRR):	Lat:	501 101101 (0011001VC, 1	Long:	Datum:
oil Map Unit Name:			NWI classii	
	inal facthia time of year?	Vac C Na C	<del></del>	<del></del>
re climatic / hydrologic conditions on the site typi				•
re Vegetation Soil or Hydrology	significantly dist		Normal Circumstances'	
re Vegetation Soil or Hydrology	naturally proble		eded, explain any answ	·
UMMARY OF FINDINGS - Attach sit	e map showing sa	mpling point lo	cations, transect	s, important features, etc
Hydrophytic Vegetation Present?  Yes Yes Hydric Soil Present?  Yes Yes	· ·	Is the Sampled	Δrea	
Wetland Hydrology Present? Yes		within a Wetlar		No 🔯
Remarks:				7.0
EGETATION				
LOCIATION	Absolute Do	minant Indicator	Dominance Test wo	rksheet:
Tree Stratum (Use scientific names.)		ecies? Status	Number of Dominant	
1. A.	<u> </u>		That Are OBL, FACM	/, or FAC: 0 (A)
2		<u> </u>	Total Number of Dom	
3		•	Species Across All St	rata: 0 5 (B)
4	1128832	· · · · · · · · · · · · · · · · · · ·	Percent of Dominant	
Sapling/Shrub Stratum	otal Cover: % 18 %		That Are OBL, FACW	/, or FAC: 0 % (A/B)
1. Mesquite	7%		Prevalence Index we	orksheet:
2.			Total % Cover of	14 14 15 15 15 15 15 15 15 15 15 15 15 15 15
3			OBL species	
4.		· .	FACW species	<b>2</b>   x2= 0 ≥2
5			FAC species FACU species	$35^{\times 3} = 0.75$
Herb Stratum	otal Cover: % %	• •	UPL species	x5= 0
1. TVAN		031	Column Totals:	(A) 0 <b>∤ 1</b> 7 (E
2. Alesti Wed	2	082		14-1
3. Home la mund	24	FALW	Prevalence Ind	
4. Brassing or hercourse Worklo		ks FACOU	Hydrophytic Vegeta	
5. Little Knows	(25)	fen FAC	Dominance Test Prevalence Inde	•
6.			(1) (1) (1) (1) (1) (1) (1) (1) (1) (1)	daptations <sup>1</sup> (Provide supporting
8.			- data in Rema	rks or on a separate sheet)
	otal Cover:	- 73 C	Problematic Hyd	rophytic Vegetation <sup>1</sup> (Explain)
Woody Vine Stratum	%	(一) ニタルフ		
1		· · · · · · · · · · · · · · · · · · ·		soil and wetland hydrology must
2.			be present.	· · · · · · · · · · · · · · · · · · ·
	Total Cover: %		Hydrophytic Vegetation	
% Bare Ground in Herb Stratum 53 %	% Cover of Biotic Cru	st%_		Yes No C
Remarks:			<del></del>	
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JS Army Corps of Engineers				

Depth	cription: (Describ Matrix			Redov	Features				
(inches)	Color (moist)	%	Color (m		% Type	Loc <sup>2</sup>	Texture <sup>3</sup>		Remarks
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	a to a to a		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1			. were the	ar satur	and a second second	Same to the real property.
¹Type: C=C	oncentration, D=De	pletion, RM=	=Reduced N	Matrix. 2	Location: PL=Po	ore Lining, RO	C=Root Chan	nel. M=Matrix.	<del></del>
									ilt, Loamy Sand, Sand
	ndicators: (Applica			~		,		for Problematic Hy	
Histosol		ible to all Livi		indy Redox		- 0		Muck (A9) (LRR C	
	pipedon (A2)	200		ripped Mat	Carlotte Car	.*		Muck (A10) (LRR I	
	istic (A3)			• •	y Mineral (F1)		<u></u>	ced Vertic (F18)	-,
	en Sulfide (A4)				ed Matrix (F2)			Parent Material (TF	2)
	d Layers (A5) (LRF	· C\		epleted Ma	, ,			(Explain in Remar	
		(0)	السنسا		Surface (F6)		U Other	(Explain in Remai	NS)
	uck (A9) (LRR D)	(0.44)						*	A
	d Below Dark Surfa	ice (ATT)			rk Surface (F7)				
	ark Surface (A12)	Post 1	1.1 1.1 1.1 1.1 1.1	2 7 119	essions (F8)		4Indiantes	a of hardeaulantia	votetlen and
	Mucky Mineral (S1)	promise in	□ Ne	ernal Pools	(La)			s of hydrophytic veg	
	Gleyed Matrix (S4)	<u> </u>	La la Jacati	<del></del>			Wellan	d hydrology must b	e present.
Restrictive	Layer (if present):								
								•	
Type:			1 - 1 p						
Type: Depth (in	iches):		3 - 21			*	Hydric So	il Present? Yes	O No 🕅
· · · · · · · · · · · · · · · · · · ·	Tepletal	£72€	656,7	mangar Land (Lander)	<del>#s</del> rue	led for			
Depth (in Remarks:	Depleted	bus	leging ?	Tipes:	#s rec	(ed for			○ No 🌣
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Depth (in Remarks: YDROLC Wetland Hy	Depletal	s:		Tus:	#is rea	(ed fr	Seco	ic sails	? or more required)
Depth (in Remarks: IYDROLO Wetland Hy Primary Indi	Depletal  OGY  rdrology Indicators	s:	cient)			(ed fr	Seco	ondary Indicators (2 Water Marks (B1) (	or more required)
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Depth (in Remarks:  YDROLO Wetland Hy Primary Indi Surface High W Saturati Water N Sedime Drift De Surface Inundat Water-S Field Obsers Surface Wa Water Table Saturation F (includes ca Describe Re	drology Indicators cators (any one indicators (any one indicators) water (A1) ater Table (A2) ion (A3) Marks (B1) (Nonrive) soil Cracks (B6) ion Visible on Aeria Stained Leaves (B9 rvations: ter Present? Present? pillary fringe)	s: icator is suffi erine) onriverine) rerine) I Imagery (B' ) Yes ( Yes ( Yes (	Cient)   S   S   S   S   S   S   S   S   S	Salt Crust ( Biotic Crust Aquatic Involved Adjusted Riversence of Recent Iron Other (Expl Depth (incl Depth (incl	(B11)  It (B12)  It (B12)  It (B13)  Sulfide Odor (C1)  It fizospheres alor  If Reduced Iron (In Reduction in Plain in Remarks)  It (In Remarks)  It (In Remarks)  It (In Remarks)  It (In Remarks)	ng Living Roc C4) owed Soils ((	Second Se	ondary Indicators (2) Water Marks (B1) ( Sediment Deposits Drift Deposits (B3) Drainage Patterns Dry-Season Water Thin Muck Surface Crayfish Burrows (( Saturation Visible of Shallow Aquitard (E FAC-Neutral Test (	e or more required) Riverine) (B2) (Riverine) (Riverine) (B10) Table (C2) (C7) C8) on Aerial Imagery (C9) D5)

Project/Site:	City/Cou	unty: NOVE	id.	Sampling Date:	5-12-69
Applicant/Owner:				Sampling Point:	<u>5a</u>
nvestigator(s):	7/A Section	, Township, Range:			
andform (hillslope, terrace, etc.).		elief (concave, convex	k, none):	Slope	e (%):
Subregion (LRR):	Lat:	Long	j:	 Datum	1:
Soil Map Unit Name:			NWI classifica		
are climatic / hydrologic conditions on the site typical	I for this time of year? Yes	s C No C	(If no, explain in Re	emarks.)	
Are Vegetation   Soil   or Hydrology	significantly disturbe	·	al Circumstances" p	•	No C
re Vegetation   Soil   or Hydrology	naturally problemation		explain any answer	**	
SUMMARY OF FINDINGS - Attach site					tures, etc.
Hydrophytic Vegetation Present? Yes	No 🚱				
Hydric Soil Present? Yes		s the Sampled Area			
Wetland Hydrology Present? Yes		within a Wetland?	Yes (	No C	
Remarks:					
	<u> </u>				
EGETATION			•		
Too Charles (I is a single of			ninance Test work		
Tree Stratum (Use scientific names.)	% Cover Specie	- INUIT	nber of Dominant Sp		MATERIAL (A)
1. <u>Ropulus F.</u> 2.		FACW That	t Are OBL, FACW, o	or FAC:	(A)
2. 3.			al Number of Domin cies Across All Stra		(B)
4.	<u> </u>			* A PORTUGATION	
Tot	al Cover: 24,%		cent of Dominant Sp it Are OBL, FACW, o		% (A/B) 7
Sapling/Shrub Stratum				HARALING SAND	The state of the s
1. <u>factorfis</u>	<u> 45 </u>	UPL Pre	valence Index work Total % Cover of:	ksheet: Multiply	byc
2.			L species	x1=	Dy.
4.			CW species	x 2 =	ñ
5.			C species	x3=	0
Tota	al Cover: 45%		CU species	x 4 =	Ô
Herb Stratum		- UPI	L species	x 5 =	Ö
1:	<u> </u>		umn Totals:	(A)	0 (B)
2. Bromus mad	<2	UPL	Prevalence Index	= R/A =	。(1950)[[在]]
3. Lepidium	13	FACW	drophytic Vegetation		
4 Melalotus		THE !	Dominance Test is		
6. Racioni via		PACW/DEL	Prevalence Index i		
7.			Morphological Ada	ptations <sup>1</sup> (Provide	
8.	<del></del>			s or on a separate	. 1
	tal Cover: 07%	<u> </u>	Problematic Hydro	pnytic Vegetation <sup>1</sup>	(Explain)
Woody Vine Stratum	- 1.70	11	dicators of hydric so	oil and wetlend by	drology must
1			dicators of nydric so present.	on and wenand hy	urology must
Z	tal Cover		drophytic		
	tal Cover: %	· Ve	getation	~ -	
	% Cover of Biotic Crust	% Pr	esent? Ye	No (	
Remarks:					
	•				
and the second s	e e e e e e e e e e e e e e e e e e e				

Sampling Point:

(	dopan noodod to document and maiotion o	r confirm the absence of indicators.)
Depth Matrix	Redox Features	
(inches) Color (moist) %	<del></del>	Loc <sup>2</sup> Texture <sup>3</sup> Remarks
10-2 2.5Y 312	2.5Y 516 2	CL
2-7 2.54 4/2		SL
	<del></del>	
	<u></u>	<u> </u>
<sup>1</sup> Type: C=Concentration, D=Depletion,		Lining, RC=Root Channel, M=Matrix.
		Clay Loam, Silty Clay Loam, Silt Loam, Silt, Loamy Sand, Sand.
Hydric Soil Indicators: (Applicable to a	# 1554 # K + 1 1855 # 1 184	Indicators for Problematic Hydric Soils:
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)  Depleted Matrix (F3)	Red Parent Material (TF2) Other (Explain in Remarks)
Stratified Layers (A5) (LRR C)  1 cm Muck (A9) (LRR D)	Redox Dark Surface (F6)	Other (Explain in Remarks)
Depleted Below Dark Surface (A11		
Thick Dark Surface (A12)	Redox Depressions (F8)	
Sandy Mucky Mineral (S1)	Vernal Pools (F9)	⁴Indicators of hydrophytic vegetation and
Sandy Gleyed Matrix (S4)		wetland hydrology must be present.
Restrictive Layer (if present):		
Type:	And the second of the second o	
Depth (inches):	<del></del>	Hydric Soil Present? Yes No
Remarks:		
HYDROLOGY		
HYDROLOGY  Wetland Hydrology Indicators:		Secondary Indicators (2 or more required)
Wetland Hydrology Indicators:	sufficient)	Secondary Indicators (2 or more required)  Water Marks (B1) (Riverine)
Wetland Hydrology Indicators: Primary Indicators (any one indicator is		Water Marks (B1) (Riverine)
Wetland Hydrology Indicators:  Primary Indicators (any one indicator is  Surface Water (A1)	Salt Crust (B11)	Water Marks (B1) (Riverine)  Sediment Deposits (B2) (Riverine)
Wetland Hydrology Indicators:  Primary Indicators (any one indicator is  Surface Water (A1)  High Water Table (A2)	Salt Crust (B11) Biotic Crust (B12)	Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine)
Wetland Hydrology Indicators:  Primary Indicators (any one indicator is  Surface Water (A1)  High Water Table (A2)  Saturation (A3)	Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrates (B13)	Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10)
Wetland Hydrology Indicators:  Primary Indicators (any one indicator is  Surface Water (A1)  High Water Table (A2)  Saturation (A3)  Water Marks (B1) (Nonriverine)	Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1)	Water Marks (B1) (Riverine)  Sediment Deposits (B2) (Riverine)  Drift Deposits (B3) (Riverine)  Drainage Patterns (B10)  Dry-Season Water Table (C2)
Wetland Hydrology Indicators:  Primary Indicators (any one indicator is  Surface Water (A1)  High Water Table (A2)  Saturation (A3)  Water Marks (B1) (Nonriverine)  Sediment Deposits (B2) (Nonriver	Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) ine) Oxidized Rhizospheres along L	Water Marks (B1) (Riverine)  Sediment Deposits (B2) (Riverine)  Drift Deposits (B3) (Riverine)  Drainage Patterns (B10)  Dry-Season Water Table (C2)  Iving Roots (C3)  Thin Muck Surface (C7)
Wetland Hydrology Indicators:  Primary Indicators (any one indicator is  Surface Water (A1)  High Water Table (A2)  Saturation (A3)  Water Marks (B1) (Nonriverine)  Sediment Deposits (B2) (Nonriverine)  Drift Deposits (B3) (Nonriverine)	Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along L Presence of Reduced Iron (C4)	Water Marks (B1) (Riverine)  Sediment Deposits (B2) (Riverine)  Drift Deposits (B3) (Riverine)  Drainage Patterns (B10)  Dry-Season Water Table (C2)  iving Roots (C3)  Thin Muck Surface (C7)  Crayfish Burrows (C8)
Wetland Hydrology Indicators:  Primary Indicators (any one indicator is  Surface Water (A1)  High Water Table (A2)  Saturation (A3)  Water Marks (B1) (Nonriverine)  Sediment Deposits (B2) (Nonriver Drift Deposits (B3) (Nonriverine)  Surface Soil Cracks (B6)	Salt Crust (B11)  Biotic Crust (B12)  Aquatic Invertebrates (B13)  Hydrogen Sulfide Odor (C1)  Oxidized Rhizospheres along L  Presence of Reduced Iron (C4)  Recent Iron Reduction in Plower	Water Marks (B1) (Riverine)  Sediment Deposits (B2) (Riverine)  Drift Deposits (B3) (Riverine)  Drainage Patterns (B10)  Dry-Season Water Table (C2)  Iving Roots (C3)  Thin Muck Surface (C7)  Crayfish Burrows (C8)  ad Soils (C6)  Saturation Visible on Aerial Imagery (C9)
Wetland Hydrology Indicators:  Primary Indicators (any one indicator is  Surface Water (A1)  High Water Table (A2)  Saturation (A3)  Water Marks (B1) (Nonriverine)  Sediment Deposits (B2) (Nonriver Drift Deposits (B3) (Nonriverine)  Surface Soil Cracks (B6)  Inundation Visible on Aerial Imager	Salt Crust (B11)  Biotic Crust (B12)  Aquatic Invertebrates (B13)  Hydrogen Sulfide Odor (C1)  Oxidized Rhizospheres along L  Presence of Reduced Iron (C4)  Recent Iron Reduction in Plower	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)  ed Soils (C6)  Saturation Visible on Aerial Imagery (C9)  Shallow Aquitard (D3)
Wetland Hydrology Indicators:  Primary Indicators (any one indicator is  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 Imager  Water-Stained Leaves (B9)	Salt Crust (B11)  Biotic Crust (B12)  Aquatic Invertebrates (B13)  Hydrogen Sulfide Odor (C1)  Oxidized Rhizospheres along L  Presence of Reduced Iron (C4)  Recent Iron Reduction in Plower	Water Marks (B1) (Riverine)  Sediment Deposits (B2) (Riverine)  Drift Deposits (B3) (Riverine)  Drainage Patterns (B10)  Dry-Season Water Table (C2)  Iving Roots (C3)  Thin Muck Surface (C7)  Crayfish Burrows (C8)  ad Soils (C6)  Saturation Visible on Aerial Imagery (C9)
Wetland Hydrology Indicators:  Primary Indicators (any one indicator is  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 Imager  Water-Stained Leaves (B9)  Field Observations:	Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along L Presence of Reduced Iron (C4) Recent Iron Reduction in Plowery (B7) Other (Explain in Remarks)	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)  ed Soils (C6)  Saturation Visible on Aerial Imagery (C9)  Shallow Aquitard (D3)
Wetland Hydrology Indicators:  Primary Indicators (any one indicator is  Surface Water (A1)  High Water Table (A2)  Saturation (A3)  Water Marks (B1) (Nonriverine)  Sediment Deposits (B2) (Nonriver Drift Deposits (B3) (Nonriverine)  Surface Soil Cracks (B6)  Inundation Visible on Aerial Imager Water-Stained Leaves (B9)  Field Observations:  Surface Water Present?  Yes C	Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along L Presence of Reduced Iron (C4) Recent Iron Reduction in Plowery (B7) Other (Explain in Remarks)	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)  ed Soils (C6)  Saturation Visible on Aerial Imagery (C9)  Shallow Aquitard (D3)
Wetland Hydrology Indicators:  Primary Indicators (any one indicator is  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 Imager  Water-Stained Leaves (B9)  Field Observations:  Surface Water Present?  Yes C	Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along L Presence of Reduced Iron (C4) Recent Iron Reduction in Plowery (B7) Other (Explain in Remarks)  No Depth (inches): No Depth (inches):	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)  ed Soils (C6)  Saturation Visible on Aerial Imagery (C9)  Shallow Aquitard (D3)
Wetland Hydrology Indicators:  Primary Indicators (any one indicator is  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 Imager  Water-Stained Leaves (B9)  Field Observations:  Surface Water Present?  Water Table Present?  Yes C  Saturation Present?	Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along L Presence of Reduced Iron (C4) Recent Iron Reduction in Plowery (B7) Other (Explain in Remarks)  No Depth (inches): No Depth (inches):	Water Marks (B1) (Riverine)  Sediment Deposits (B2) (Riverine)  Drift Deposits (B3) (Riverine)  Drainage Patterns (B10)  Dry-Season Water Table (C2)  Thin Muck Surface (C7)  Crayfish Burrows (C8)  Saturation Visible on Aerial Imagery (C9)  Shallow Aquitard (D3)  FAC-Neutral Test (D5)
Wetland Hydrology Indicators:  Primary Indicators (any one indicator is  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 Imager  Water-Stained Leaves (B9)  Field Observations:  Surface Water Present? Yes Caturation Present? Yes Cincludes capillary fringe)	Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along L Presence of Reduced Iron (C4) Recent Iron Reduction in Plowery (B7) Other (Explain in Remarks)  No Depth (inches): No Depth (inches):	Water Marks (B1) (Riverine)  Sediment Deposits (B2) (Riverine)  Drift Deposits (B3) (Riverine)  Drainage Patterns (B10)  Dry-Season Water Table (C2)  Iving Roots (C3)  Thin Muck Surface (C7)  Crayfish Burrows (C8)  Saturation Visible on Aerial Imagery (C9)  Shallow Aquitard (D3)  FAC-Neutral Test (D5)  Wetland Hydrology Present? Yes No
Wetland Hydrology Indicators:  Primary Indicators (any one indicator is  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 Imager  Water-Stained Leaves (B9)  Field Observations:  Surface Water Present? Yes Caturation Present? Yes Cincludes capillary fringe)	Salt Crust (B11)  Biotic Crust (B12)  Aquatic Invertebrates (B13)  Hydrogen Sulfide Odor (C1)  Oxidized Rhizospheres along L  Presence of Reduced Iron (C4)  Recent Iron Reduction in Plowery (B7)  Other (Explain in Remarks)  No Depth (inches):  No Depth (inches):  Depth (inches):	Water Marks (B1) (Riverine)  Sediment Deposits (B2) (Riverine)  Drift Deposits (B3) (Riverine)  Drainage Patterns (B10)  Dry-Season Water Table (C2)  Iving Roots (C3)  Thin Muck Surface (C7)  Crayfish Burrows (C8)  Saturation Visible on Aerial Imagery (C9)  Shallow Aquitard (D3)  FAC-Neutral Test (D5)  Wetland Hydrology Present? Yes No
Wetland Hydrology Indicators:  Primary Indicators (any one indicator is  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 Imager  Water-Stained Leaves (B9)  Field Observations:  Surface Water Present?  Yes C  Saturation Present?  Yes C  Saturation Present?  Yes C  Saturation Present?  Describe Recorded Data (stream gauge	Salt Crust (B11)  Biotic Crust (B12)  Aquatic Invertebrates (B13)  Hydrogen Sulfide Odor (C1)  Oxidized Rhizospheres along L  Presence of Reduced Iron (C4)  Recent Iron Reduction in Plowery (B7)  Other (Explain in Remarks)  No Depth (inches):  No Depth (inches):  Depth (inches):	Water Marks (B1) (Riverine)  Sediment Deposits (B2) (Riverine)  Drift Deposits (B3) (Riverine)  Drainage Patterns (B10)  Dry-Season Water Table (C2)  Iving Roots (C3)  Thin Muck Surface (C7)  Crayfish Burrows (C8)  Saturation Visible on Aerial Imagery (C9)  Shallow Aquitard (D3)  FAC-Neutral Test (D5)  Wetland Hydrology Present? Yes No
Wetland Hydrology Indicators:  Primary Indicators (any one indicator is  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 Imager  Water-Stained Leaves (B9)  Field Observations:  Surface Water Present? Yes Caturation Present? Yes Cincludes capillary fringe)	Salt Crust (B11)  Biotic Crust (B12)  Aquatic Invertebrates (B13)  Hydrogen Sulfide Odor (C1)  Oxidized Rhizospheres along L  Presence of Reduced Iron (C4)  Recent Iron Reduction in Plowery (B7)  Other (Explain in Remarks)  No Depth (inches):  No Depth (inches):  Depth (inches):	Water Marks (B1) (Riverine)  Sediment Deposits (B2) (Riverine)  Drift Deposits (B3) (Riverine)  Drainage Patterns (B10)  Dry-Season Water Table (C2)  Iving Roots (C3)  Thin Muck Surface (C7)  Crayfish Burrows (C8)  Saturation Visible on Aerial Imagery (C9)  Shallow Aquitard (D3)  FAC-Neutral Test (D5)  Wetland Hydrology Present? Yes No
Wetland Hydrology Indicators:  Primary Indicators (any one indicator is  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 Imager  Water-Stained Leaves (B9)  Field Observations:  Surface Water Present?  Yes C  Saturation Present?  Yes C  Saturation Present?  Yes C  Saturation Present?  Describe Recorded Data (stream gauge	Salt Crust (B11)  Biotic Crust (B12)  Aquatic Invertebrates (B13)  Hydrogen Sulfide Odor (C1)  Oxidized Rhizospheres along L  Presence of Reduced Iron (C4)  Recent Iron Reduction in Plowery (B7)  Other (Explain in Remarks)  No Depth (inches):  No Depth (inches):  Depth (inches):	Water Marks (B1) (Riverine)  Sediment Deposits (B2) (Riverine)  Drift Deposits (B3) (Riverine)  Drainage Patterns (B10)  Dry-Season Water Table (C2)  Iving Roots (C3)  Thin Muck Surface (C7)  Crayfish Burrows (C8)  Saturation Visible on Aerial Imagery (C9)  Shallow Aquitard (D3)  FAC-Neutral Test (D5)  Wetland Hydrology Present? Yes No
Wetland Hydrology Indicators:  Primary Indicators (any one indicator is  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 Imager  Water-Stained Leaves (B9)  Field Observations:  Surface Water Present?  Yes C  Saturation Present?  Yes C  Saturation Present?  Yes C  Saturation Present?  Describe Recorded Data (stream gauge	Salt Crust (B11)  Biotic Crust (B12)  Aquatic Invertebrates (B13)  Hydrogen Sulfide Odor (C1)  Oxidized Rhizospheres along L  Presence of Reduced Iron (C4)  Recent Iron Reduction in Plowery (B7)  Other (Explain in Remarks)  No Depth (inches):  No Depth (inches):  Depth (inches):	Water Marks (B1) (Riverine)  Sediment Deposits (B2) (Riverine)  Drift Deposits (B3) (Riverine)  Drainage Patterns (B10)  Dry-Season Water Table (C2)  Iving Roots (C3)  Thin Muck Surface (C7)  Crayfish Burrows (C8)  Saturation Visible on Aerial Imagery (C9)  Shallow Aquitard (D3)  FAC-Neutral Test (D5)  Wetland Hydrology Present? Yes No
Wetland Hydrology Indicators:  Primary Indicators (any one indicator is  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 Imager  Water-Stained Leaves (B9)  Field Observations:  Surface Water Present?  Yes C  Saturation Present?  Yes C  Saturation Present?  Yes C  Saturation Present?  Describe Recorded Data (stream gauge	Salt Crust (B11)  Biotic Crust (B12)  Aquatic Invertebrates (B13)  Hydrogen Sulfide Odor (C1)  Oxidized Rhizospheres along L  Presence of Reduced Iron (C4)  Recent Iron Reduction in Plowery (B7)  Other (Explain in Remarks)  No Depth (inches):  No Depth (inches):  Depth (inches):	Water Marks (B1) (Riverine)  Sediment Deposits (B2) (Riverine)  Drift Deposits (B3) (Riverine)  Drainage Patterns (B10)  Dry-Season Water Table (C2)  Iving Roots (C3)  Thin Muck Surface (C7)  Crayfish Burrows (C8)  Saturation Visible on Aerial Imagery (C9)  Shallow Aquitard (D3)  FAC-Neutral Test (D5)  Wetland Hydrology Present? Yes No
Wetland Hydrology Indicators:  Primary Indicators (any one indicator is  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 Imager  Water-Stained Leaves (B9)  Field Observations:  Surface Water Present? Yes ( Water Table Present? Yes ( Saturation Present? Yes ( Includes capillary fringe)  Describe Recorded Data (stream gauge	Salt Crust (B11)  Biotic Crust (B12)  Aquatic Invertebrates (B13)  Hydrogen Sulfide Odor (C1)  Oxidized Rhizospheres along L  Presence of Reduced Iron (C4)  Recent Iron Reduction in Plowery (B7)  Other (Explain in Remarks)  No Depth (inches):  No Depth (inches):  Depth (inches):	Water Marks (B1) (Riverine)  Sediment Deposits (B2) (Riverine)  Drift Deposits (B3) (Riverine)  Drainage Patterns (B10)  Dry-Season Water Table (C2)  Iving Roots (C3)  Thin Muck Surface (C7)  Crayfish Burrows (C8)  Saturation Visible on Aerial Imagery (C9)  Shallow Aquitard (D3)  FAC-Neutral Test (D5)  Wetland Hydrology Present? Yes No

roject/Site: <u>LBDD</u>	City/Co	ounty: <u>Los Bu</u>	nos/ Nun	Sampling Date:	5/12/
oplicant/Owner:		<u> </u>	State:	Sampling Point:	laa
vestigator(s):	Section Section	n, Township, Ran	ge:		
andform (hillslope, terrace, etc.):	Local	relief (concave, c	onvex, none):	Slo	ope (%):
bregion (LRR):	Lat:		Long:	Dat	um:
oil Map Unit Name:			NWI cl	assification:	
re climatic / hydrologic conditions on the site typical	for this time of year? Ye	es No C	(if no, explai	in in Remarks.)	
re Vegetation Soil or Hydrology	significantly disturb	ed? Are "N	Normal Circumstar	ices" present? Yes (	No C
re Vegetation Soil or Hydrology	naturally problema	tic? (If nee	eded, explain any a	answers in Remarks.)	
UMMARY OF FINDINGS - Attach site r	map showing sam	oling point lo	cations, trans	ects, important fe	eatures, etc.
Hydrophytic Vegetation Present? Yes 💢	No @				
Hydric Soil Present? Yes	No 🏈	Is the Sampled	Area	1	
Wetland Hydrology Present? Yes	No @	within a Wetlan	d? Yes	No C	· ·
Remarks:					
				•	
EGETATION			, .		
Tree Stratum (Use scientific names.)	Absolute Domi	nant Indicator	Dominance Tes		
1.	_% Cover _opec	Otalus	Number of Domir That Are OBL, FA		0 Z (A)
2.				0.0493888	
3. –	<u>-                                    </u>		Total Number of Species Across A		0 Z (B)
4.	<del></del>			. POSSE	Manual J
Tota	al Cover: %		Percent of Domir That Are OBL, F		0 % (A/B)
Sapling/Shrub Stratum  1.	erina di Kabupatèn Balandaria. Kabupatèn Balandaria		Prevalence Inde	workshoot	nter representation of the second
2.	· · · · · · · · · · · · · · · · · · ·		Total % Cov		ply by:
3.			OBL species	x 1 =	Ö
4.			FACW species	× 2 =	Ö
5.			FAC species	x 3 =	0
Herb Stratum Bermida Tota	al Cover: 🧏 🌿		FACU species	x 4 =	0
- 1 - · · ·	20	FAC	UPL species	x 5 =	0
1 Lepidium 2 Mai latic	<del></del>	<u>FACW</u>	Column Totals:	(A)	0 (B)
3. SURDUS		- FAC	Prevalence	e Index = B/A =	12000
4. TIANO	8	OBL	Hydrophytic Ve	getation Indicators:	
5. Grindelia	7	FACU	1779	Test is >50%	
6. Latuca	<	FAC	105.	Index is ≤3.0¹	
7. Polypadon	5	FACW+	Morphologic	cal Adaptations <sup>1</sup> (Providental) Remarks or on a separa	de supporting ate sheet)
8. Hendrinus	<1	FAC-		: Hydrophytic Vegetatio	•
Pickus Total Woody Vine Stratum BROMUS hok.	al Cover: 4 %	FACK			
1Lotus	ZĬ.	PACW/OBS		dric soil and wetland	hydrology must
2			be present.	· · · · · · · · · · · · · · · · · · ·	
. Tot	al Cover: <b>93</b> %		Hydrophytic		
<b>~</b>	% Cover of Biotic Crust	%	Vegetation Present?	Yes X No	
Remarks:	-				· · · · · · · · · · · · · · · · · · ·
• •					

Profile Description: (Describe to the depth needed to document the indicator or co	onfirm the absence of indicators.)
Depth Matrix Redox Features	
	pc <sup>2</sup> Texture <sup>3</sup> Remarks
0-1.5 2.5 4 42	<u>SCL</u>
1.5-7 5Y 4/2 5Y 4/1 20	a
2.5Y 3/2 5Y 3/2 8	
10YR 6/8 2	<del></del>
<sup>1</sup> Type: C=Concentration, D=Depletion, RM=Reduced Matrix. <sup>2</sup> Location: PL=Pore Lini	ing, RC=Root Channel, M=Matrix.
<sup>3</sup> Soil Textures: Clay, Silty Clay, Sandy Clay, Loam, Sandy Clay Loam, Sandy Loam, Cla	
Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)	Indicators for Problematic Hydric Soils:
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)	
Thick Dark Surface (A12) Redox Depressions (F8)  Sandy Mucky Mineral (S1) Vernal Pools (F9)	findicators of hydrophytic vegetation and
Sandy Millerar (31) Sandy Gleyed Matrix (\$4)	wetland hydrology must be present.
Restrictive Layer (if present):	Total Control of the
Type:	
Depth (inches):	Hydric Soil Present? Yes No
Remarks:	Hydric Soli Fresent: Testy No.
Terrains.	
HYDROLOGY	
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	
Drift Deposits (B3) (Nonriverine) Presence of Reduced Iron (C4)	Crayfish Burrows (C8)
Surface Soil Cracks (B6) Recent Iron Reduction in Plowed S	Lad *
inundation Visible on Aerial Imagery (B7) Other (Explain in Remarks)	Shallow Aquitard (D3)
Water-Stained Leaves (B9)	FAC-Neutral Test (D5)
	<u> </u>
The state of the s	and the bullion soils stal
Field Observations:	on the hydric soils list
Field Observations: Surface Water Present? Yes C. No C. Depth (inches):	on the hydric soils list
Field Observations: Surface Water Present?  Yes No Depth (inches): Water Table Present?  Yes No Depth (inches):	on the hydric soils list
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 C No C
Field Observations:  Surface Water Present? Yes No Depth (inches):  Water Table Present? Yes No Depth (inches):  Saturation Present? Yes No Depth (inches):	Wetland Hydrology Present? Yes C No C
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 C No C
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 C No C
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)  Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspect	Wetland Hydrology Present? Yes C No C
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)  Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspect	Wetland Hydrology Present? Yes C No C
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)  Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspect	Wetland Hydrology Present? Yes C No C
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)  Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspect	Wetland Hydrology Present? Yes C No C

Project/Site: LBDD	City/County: Los Bands/Marcel Sampling Date: 5-113-169
Applicant/Owner:	State: A Sampling Point: Ob
Investigator(s):	Section, Township, Range:
Landform (hillslope, terrace, etc.):	Local relief (concave, convex, none): Slope (%): 30%
Subregion (LRR):Lat:	Long: Datum:
Soil Map Unit Name:	NWI classification:
Are climatic / hydrologic conditions on the site typical for this time of y	rear? Yes No (If no, explain in Remarks.)
Are Vegetation   Soil   or Hydrology   significantly	y disturbed? Are "Normal Circumstances" present? Yes ( No (
Are Vegetation   Soil   or Hydrology   naturally pr	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	Is the Sampled Area
Wetland Hydrology Present? Yes No W	within a Wetland? Yes No C
Remarks:	
VEGETATION	
Absolute	Dominant Indicator   Dominance Test worksheet:
Tree Stratum (Use scientific names.) % Cover	
1.	That Are OBL, FACW, or FAC: (A)
2.	Total Number of Dominant
3.	Species Across All Strata: (B)
4	Percent of Dominant Species
Sapling/Shrub Stratum	
1 Prospus	OPL Prevalence Index worksheet:
2.	Total % Cover of: Multiply by:
3.	OBL species x1= 0
4.	FACW species x 2 = 0
5	FAC species x3 = 0
Total Cover: 1009	FACU species x 4 = 0
Herb Stratum	UPL species x5=
1. Lepidium 30	FPCW Column Totals: (A) 0 (B)
TIGITIN DE	Prevalence Index = B/A =
DRUTTUS TOO	UPL Hydrophytic Vegetation Indicators:
4 Promus n. 15 5 Melilotos 5	FAC Dominance Test is >50%
6. Grindelia 10	Prevalence Index is ≤3.0¹
7 Chenopadium <1	Morphological Adaptations (Provide supporting
8.	— data in Remarks of on a separate sheet)
Woody Vine Stratum	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
voody vide Stratum	<sup>1</sup> Indicators of hydric soil and wetland hydrology must
1	be present.
Z. Total Cover:	% Hydrophytic
	Vegetation
% Bare Ground in Herb Stratum 8 % % Cover of Biotic	c Crust
Remarks:	and the state of t
1	

	ion: (Describe to the de		• .	
Depth (inches)	Matrix Color (moist) %	Redox Features Color (moist) % Type¹ Loc	<sup>2</sup> Texture <sup>3</sup>	Remarks
0-5 2	.54 42	5Y 2.5/2 6	Loam	
5-2	5Y 413	5Y 2.5/2 6	silt loam	
	<del>//   /</del>	2.57 5/6 3		
	<del></del>			
	<del></del>			· · · · · · · · · · · · · · · · · · ·
	10 - 14 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -	· · · · · · · · · · · · · · · · · · ·	en e	The second of
<sup>1</sup> Type: C=Conce	entration, D=Depletion, RN	M=Reduced Matrix. <sup>2</sup> Location: PL=Pore Linin	g, RC=Root Channel, M=Matrix	
<sup>3</sup> Soil Textures: C	Clay, Silty Clay, Sandy Cla	ay, Loam, Sandy Clay Loam, Sandy Loam, Clay	Loam, Silty Clay Loam, Silt Loa	am, Silt, Loamy Sand, Sand
		RRs, unless otherwise noted.)	Indicators for Problema	-
Histosol (A1)		Sandy Redox (S5)	1 cm Muck (A9) (Li	· •
Histic Epiped		Stripped Matrix (S6)  Loamy Mucky Mineral (F1)	2 cm Muck (A10) (I	•
Black Histic ( Hydrogen Su		Loamy Gleyed Matrix (F2)	Reduced Vertic (F1	
ш	yers (A5) (LRR C)	Depleted Matrix (F3)	Other (Explain in R	• • •
	A9) (LRR D)	Redox Dark Surface (F6)		, was to the first
	low Dark Surface (A11)	Depleted Dark Surface (F7)		*
	Surface (A12)	Redox Depressions (F8)		
	y Mineral (S1)	Vernal Pools (F9)	⁴Indicators of hydrophyt	
	ed Matrix (S4)		wetland hydrology m	nust be present.
Restrictive Laye	er (it present):			
T	Market Control of the	the state of the s		
Type:	A.		Unidate Onth December	V C N- 7
Depth (inches	):		Hydric Soil Present?	Yes No No
Depth (inches Remarks:	<u> </u>		Hydric Soil Present?	Yes No No
Depth (inches Remarks:	): Kin modríx		Hydric Soil Present?	Yes No No
Depth (inches Remarks:	<u> </u>		Hydric Soil Present?	Yes No X
Depth (inches Remarks:	k in modríx		Hydric Soil Present?	Yes No X
Depth (inches Remarks: 10% RC	k in modríx			Yes No
Depth (inches Remarks:    O   RC  HYDROLOGY  Wetland Hydrole	k in modríx		Secondary Indicat	
Depth (inches Remarks:    O   RC  HYDROLOGY  Wetland Hydrole	KIN MOTRIX  ogy Indicators: s (any one indicator is su		Secondary Indicat	ors (2 or more required)
Depth (inches Remarks:    O   Roo  HYDROLOGY  Wetland Hydrolo  Primary Indicator	ogy Indicators: rs (any one indicator is surer (A1)	rfficient)	Secondary Indicat  Water Marks (	ors (2 or more required) (B1) (Riverine)
Depth (inches Remarks:   Of o Roc  HYDROLOGY Wetland Hydrolo Primary Indicator Surface Wate	ogy Indicators: rs (any one indicator is surer (A1) Table (A2)	ifficient)	Secondary Indicat  Water Marks (	ors (2 or more required) (B1) (Riverine) posits (B2) (Riverine) (B3) (Riverine)
Primary Indicator  Surface Water High Water To Saturation (A Water Marks)	ogy indicators: rs (any one indicator is surer (A1) Table (A2) A3) s (B1) (Nonriverine)	fficient)  Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1)	Secondary Indicate  Water Marks ( Sediment Dep Drift Deposits Drainage Patt Dry-Season V	ors (2 or more required) (B1) (Riverine) ossits (B2) (Riverine) (B3) (Riverine) erns (B10) Vater Table (C2)
Depth (inches Remarks:  HYDROLOGY  Wetland Hydrolo Primary Indicator Surface Wate High Water 1 Saturation (A) Water Marks Sediment De	ogy Indicators: rs (any one indicator is surer (A1) Table (A2) A3) s (B1) (Nonriverine) eposits (B2) (Nonriverine	fficient)  Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living	Secondary Indicate  Water Marks ( Sediment Dep Drift Deposits Drainage Patt Dry-Season W Roots (C3)	ors (2 or more required) (B1) (Riverine) cosits (B2) (Riverine) (B3) (Riverine) erns (B10) Vater Table (C2) rface (C7)
Primary Indicator  Saturation (A Water Marks  Sediment De Depth (inches)  Remarks:  HYDROLOGY  Wetland Hydrolo Primary Indicator  Surface Water  High Water I Saturation (A Water Marks  Drift Deposite	ogy indicators: s (any one indicator is surer (A1) Table (A2) A3) s (B1) (Nonriverine) eposits (B2) (Nonriverine) s (B3) (Nonriverine)	sifficient)  Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Presence of Reduced Iron (C4)	Secondary Indicate Water Marks ( Sediment Dep Drift Deposits Drainage Patt Dry-Season W Roots (C3) Crayfish Burro	ors (2 or more required) (B1) (Riverine) posits (B2) (Riverine) (B3) (Riverine) erns (B10) Vater Table (C2) rface (C7) pws (C8)
Depth (inches Remarks:    O   ROC    YDROLOGY   Wetland Hydrolo   Primary Indicator   Surface Wate   High Water I   Saturation (A   Water Marks   Sediment Decorate   Drift Deposite   Surface Soil	ogy indicators: rs (any one indicator is surer (A1) Table (A2) A3) s (B1) (Nonriverine) eposits (B2) (Nonriverine) rs (B3) (Nonriverine) Cracks (B6)	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 Sc	Secondary Indicate  Water Marks ( Sediment Dep Drift Deposits Drainage Patt Dry-Season V Roots (C3) Thin Muck Su Crayfish Burro	ors (2 or more required) (B1) (Riverine) posits (B2) (Riverine) (B3) (Riverine) erns (B10) Vater Table (C2) rface (C7) pws (C8) ible on Aerial Imagery (C9)
Depth (inches Remarks:    O   C   RCC    YDROLOGY  Wetland Hydrolo   Primary Indicator   Surface Wate   High Water Tarks   Sediment December 1   Surface Soil   Inundation V	ogy indicators: rs (any one indicator is surer (A1) Table (A2) A3) s (B1) (Nonriverine) eposits (B2) (Nonriverine) rs (B3) (Nonriverine) Cracks (B6) Visible on Aerial Imagery (	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 Sc	Secondary Indicat  Water Marks ( Sediment Dep Drift Deposits Drainage Patt Dry-Season W Roots (C3) Thin Muck Su Crayfish Burro Saturation Vis Shallow Aquit	ors (2 or more required) (B1) (Riverine) posits (B2) (Riverine) (B3) (Riverine) erns (B10) Vater Table (C2) rface (C7) pws (C8) ible on Aerial Imagery (C9) ard (D3)
Depth (inches Remarks:   O O   ROC   HYDROLOGY   Wetland Hydrology   Primary Indicator   Surface Water   High Water   Saturation (A   Water Marks   Sediment Deposite   Surface Soil   Inundation V   Water-Staine	ogy Indicators: rs (any one indicator is surer (A1) Table (A2) A3) s (B1) (Nonriverine) eposits (B2) (Nonriverine) rs (B3) (Nonriverine) Cracks (B6) Visible on Aerial Imagery (ed Leaves (B9)	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 Sc	Secondary Indicate  Water Marks ( Sediment Dep Drift Deposits Drainage Patt Dry-Season V Roots (C3) Thin Muck Su Crayfish Burro	ors (2 or more required) (B1) (Riverine) posits (B2) (Riverine) (B3) (Riverine) erns (B10) Vater Table (C2) rface (C7) pws (C8) ible on Aerial Imagery (C9) ard (D3)
Depth (inches Remarks:	ogy Indicators: rs (any one indicator is surer (A1) Table (A2) A3) s (B1) (Nonriverine) eposits (B2) (Nonriverine) rs (B3) (Nonriverine) Cracks (B6) Visible on Aerial Imagery (ed Leaves (B9) ons:	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 Sc	Secondary Indicat  Water Marks ( Sediment Dep Drift Deposits Drainage Patt Dry-Season W Roots (C3) Thin Muck Su Crayfish Burro Saturation Vis Shallow Aquit	ors (2 or more required) (B1) (Riverine) posits (B2) (Riverine) (B3) (Riverine) erns (B10) Vater Table (C2) rface (C7) pws (C8) ible on Aerial Imagery (C9) ard (D3)
Depth (inches Remarks:    Colo   Roc     YDROLOGY   Wetland Hydrolo   Primary Indicator   Surface Water     Saturation (A   Water Marks   Sediment De   Drift Deposite   Surface Soil   Inundation V   Water-Staine   Field Observations	ogy indicators: rs (any one indicator is surer (A1) Table (A2) A3) s (B1) (Nonriverine) eposits (B2) (Nonriverine) cracks (B6) /isible on Aerial Imagery (ed Leaves (B9) ons: resent? Yes (	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 Sc (B7)  Other (Explain in Remarks)	Secondary Indicat  Water Marks ( Sediment Dep Drift Deposits Drainage Patt Dry-Season W Roots (C3) Thin Muck Su Crayfish Burro Saturation Vis Shallow Aquit	ors (2 or more required) (B1) (Riverine) posits (B2) (Riverine) (B3) (Riverine) erns (B10) Vater Table (C2) rface (C7) pws (C8) ible on Aerial Imagery (C9) ard (D3)
Depth (inches Remarks:   COO   RCC	ogy indicators: rs (any one indicator is surer (A1) Table (A2) A3) s (B1) (Nonriverine) eposits (B2) (Nonriverine) cracks (B6) /isible on Aerial Imagery ( ed Leaves (B9) ons: resent? Yes (	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 Sc  (B7)  Other (Explain in Remarks)  No Depth (inches):  No Depth (inches):	Secondary Indicat  Water Marks ( Sediment Dep Drift Deposits Drainage Patt Dry-Season W Roots (C3) Thin Muck Su Crayfish Burro Saturation Vis Shallow Aquit	ors (2 or more required) (B1) (Riverine) posits (B2) (Riverine) (B3) (Riverine) erns (B10) Vater Table (C2) rface (C7) pws (C8) ible on Aerial Imagery (C9) ard (D3)
Depth (inches Remarks:    COO   RCC	ogy indicators: rs (any one indicator is surer (A1) Table (A2) A3) s (B1) (Nonriverine) eposits (B2) (Nonriverine) cracks (B6) /isible on Aerial Imagery ( ed Leaves (B9) ons: resent? Yes ( ent? Yes (	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 Sc (B7)  Other (Explain in Remarks)  No Depth (inches):  No Depth (inches):	Secondary Indicate  Water Marks ( Sediment Dep Drift Deposits Drainage Patt Dry-Season V Crayfish Burro Saturation Vis Shallow Aquit FAC-Neutral 1	ors (2 or more required) (B1) (Riverine) ossits (B2) (Riverine) (B3) (Riverine) erns (B10) Vater Table (C2) rface (C7) ows (C8) sible on Aerial Imagery (C9) ard (D3) Fest (D5)
Depth (inches Remarks:    C   C   RCC	ogy indicators: rs (any one indicator is surer (A1) Table (A2) A3) s (B1) (Nonriverine) eposits (B2) (Nonriverine) cracks (B6) /isible on Aerial Imagery (ed Leaves (B9) ons: resent? Yes (Cont? Yes (Cont? Yes (Cont? Yes (Cont))	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 Sc (B7)  Other (Explain in Remarks)  No Depth (inches):  No Depth (inches):	Secondary Indicate  Water Marks ( Sediment Dep Drift Deposits Drainage Patt Dry-Season V Thin Muck Su Crayfish Burro Saturation Vis Shallow Aquit FAC-Neutral T	ors (2 or more required) (B1) (Riverine) posits (B2) (Riverine) (B3) (Riverine) erns (B10) Vater Table (C2) rface (C7) pows (C8) ible on Aerial Imagery (C9) ard (D3) Fest (D5)
Depth (inches Remarks:    C   C   RCC    YDROLOGY   Wetland Hydrolo   Primary Indicator   Surface Water   High Water I   Saturation (A   Water Marks   Sediment De   Drift Deposite   Surface Soil   Inundation V   Water-Staine   Surface Water Prese Saturation Prese (includes capillar)	ogy indicators: rs (any one indicator is surer (A1) Table (A2) A3) s (B1) (Nonriverine) eposits (B2) (Nonriverine) cracks (B6) /isible on Aerial Imagery (ed Leaves (B9) ons: resent? Yes (Cont? Yes (Cont? Yes (Cont? Yes (Cont))	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 Sc (B7)  Other (Explain in Remarks)  No Depth (inches):  No Depth (inches):	Secondary Indicate  Water Marks ( Sediment Dep Drift Deposits Drainage Patt Dry-Season V Thin Muck Su Crayfish Burro Saturation Vis Shallow Aquit FAC-Neutral T	ors (2 or more required) (B1) (Riverine) ossits (B2) (Riverine) (B3) (Riverine) erns (B10) Vater Table (C2) rface (C7) ows (C8) sible on Aerial Imagery (C9) ard (D3) Fest (D5)
Depth (inches) Remarks:   O	ogy indicators: rs (any one indicator is surer (A1) Table (A2) A3) s (B1) (Nonriverine) eposits (B2) (Nonriverine) cracks (B6) /isible on Aerial Imagery (ed Leaves (B9) ons: resent? Yes C ent? Yes C y fringe)	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 Sc (B7)  Other (Explain in Remarks)  No Depth (inches):  No Depth (inches):	Secondary Indicate  Water Marks ( Sediment Dep Drift Deposits Drainage Patt Dry-Season V Thin Muck Su Crayfish Burro Saturation Vis Shallow Aquit FAC-Neutral T	ors (2 or more required) (B1) (Riverine) ossits (B2) (Riverine) (B3) (Riverine) erns (B10) Vater Table (C2) rface (C7) ows (C8) sible on Aerial Imagery (C9) ard (D3) Fest (D5)
Depth (inches Remarks:    C   C   RCC    YDROLOGY   Wetland Hydrolo   Primary Indicator   Surface Water   High Water I   Saturation (A   Water Marks   Sediment De   Drift Deposite   Surface Soil   Inundation V   Water-Staine   Surface Water Prese Saturation Prese (includes capillar)	ogy indicators: rs (any one indicator is surer (A1) Table (A2) A3) s (B1) (Nonriverine) eposits (B2) (Nonriverine) cracks (B6) /isible on Aerial Imagery (ed Leaves (B9) ons: resent? Yes C ent? Yes C y fringe)	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 Sc (B7)  Other (Explain in Remarks)  No Depth (inches):  No Depth (inches):	Secondary Indicate  Water Marks ( Sediment Dep Drift Deposits Drainage Patt Dry-Season V Thin Muck Su Crayfish Burro Saturation Vis Shallow Aquit FAC-Neutral T	ors (2 or more required) (B1) (Riverine) ossits (B2) (Riverine) (B3) (Riverine) erns (B10) Vater Table (C2) rface (C7) ows (C8) sible on Aerial Imagery (C9) ard (D3) Fest (D5)
Depth (inches) Remarks:   O	ogy indicators: rs (any one indicator is surer (A1) Table (A2) A3) s (B1) (Nonriverine) eposits (B2) (Nonriverine) cracks (B6) /isible on Aerial Imagery (ed Leaves (B9) ons: resent? Yes C ent? Yes C y fringe)	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 Sc (B7)  Other (Explain in Remarks)  No Depth (inches):  No Depth (inches):	Secondary Indicate  Water Marks ( Sediment Dep Drift Deposits Drainage Patt Dry-Season V Thin Muck Su Crayfish Burro Saturation Vis Shallow Aquit FAC-Neutral T	ors (2 or more required) (B1) (Riverine) ossits (B2) (Riverine) (B3) (Riverine) erns (B10) Vater Table (C2) rface (C7) ows (C8) sible on Aerial Imagery (C9) ard (D3) Fest (D5)
Depth (inches) Remarks:   O	ogy indicators: rs (any one indicator is surer (A1) Table (A2) A3) s (B1) (Nonriverine) eposits (B2) (Nonriverine) cracks (B6) /isible on Aerial Imagery (ed Leaves (B9) ons: resent? Yes C ent? Yes C y fringe)	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 Sc (B7)  Other (Explain in Remarks)  No Depth (inches):  No Depth (inches):	Secondary Indicate  Water Marks ( Sediment Dep Drift Deposits Drainage Patt Dry-Season V Thin Muck Su Crayfish Burro Saturation Vis Shallow Aquit FAC-Neutral T	ors (2 or more required) (B1) (Riverine) ossits (B2) (Riverine) (B3) (Riverine) erns (B10) Vater Table (C2) rface (C7) ows (C8) sible on Aerial Imagery (C9) ard (D3) Fest (D5)
Depth (inches Remarks:   COO   RCC     YDROLOGY   Wetland Hydrology     Primary Indicator     Surface Water     High Water     Water Marks     Sediment De     Drift Deposite     Surface Soil     Inundation V     Water-Staine     Field Observation     Surface Water Proposed     Water Table Prese     Saturation Prese     Concludes capillar     Describe Recorded	ogy indicators: rs (any one indicator is surer (A1) Table (A2) A3) s (B1) (Nonriverine) eposits (B2) (Nonriverine) cracks (B6) /isible on Aerial Imagery (ed Leaves (B9) ons: resent? Yes C ent? Yes C y fringe)	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 Sc (B7)  Other (Explain in Remarks)  No Depth (inches):  No Depth (inches):	Secondary Indicate  Water Marks ( Sediment Dep Drift Deposits Drainage Patt Dry-Season V Thin Muck Su Crayfish Burro Saturation Vis Shallow Aquit FAC-Neutral T	ors (2 or more required) (B1) (Riverine) ossits (B2) (Riverine) (B3) (Riverine) erns (B10) Vater Table (C2) rface (C7) ows (C8) sible on Aerial Imagery (C9) ard (D3) Fest (D5)

Project/Site: Los Blues T	City/Co	ounty: 🎉 🔑	and a	Sampling Date:	5/12/0
Applicant/Owner:			State: 👉	Sampling Point:	70
nvestigator(s):	Section Section	n, Township, Ran	ge:	<del>-</del>	
andform (hillslope, terrace, etc.):	· · · · · · · · · · · · · · · · · · ·	relief (concave, co		Slop	e (%):
ubregion (LRR):	Lat:		Long:	Datun	n:
oil Map Unit Name:		-	NWI class	ification:	
re climatic / hydrologic conditions on the site t	ypical for this time of year? Ye	es Ci No C	(If no, explain in	Remarks.)	
re Vegetation Soil or Hydrology	'` <u></u>	4.5	lormal Circumstances		No C
re Vegetation   Soil   or Hydrology			eded, explain any ansv		
UMMARY OF FINDINGS - Attach.s		•	,	•	tures, etc.
Hydrophytic Vegetation Present? Yes Hydric Soil Present? Yes	A. S.	Is the Sampled	Δrea		
Wetland Hydrology Present? Yes	200	within a Wetland		No C	
Remarks:	)				
TOTA TION					
EGETATION					
Tree Stratum (Use scientific names.)	Absolute Domir % Cover Speci	nant Indicator es? Status	Dominance Test wo		
1.			Number of Dominant That Are OBL, FACV		(A)
2.			Total Number of Dor	ninant	arela.
3.	The second second second		Total Number of Dor Species Across All S	The second second second	(B)
4.			Percent of Deminant	- Chaolas	
	Total Cover: %		Percent of Dominant That Are OBL, FACV	V, or FAC:	% (A/B)
Sapling/Shrub Stratum	The state of	1 11000	Prevalence Index w	orkshoot:	unanese.
1. <u>Frospus</u> 2.	15	UPL	Total % Cover of		, pv.
3.			OBL species	x1=	Ö
4.			FACW species	x 2 =	0
5.			FAC species	x3=	0
	Total Cover: 15 %		FACU species	x 4 =	0
Herb Stratum			UPL species	x 5 =	0
1. Heliotrope	3	<u>OBL</u>	Column Totals:	(A)	0 (B)
2. Frankinia		FACW	Prevalence Inc		42000
3. Lepidium	3	FACW	Hydrophytic Veget		
4. Brassica n.		UPL	Dominance Tes		
5. Polupodon 6. Lactivati	<u> </u>	FACN+	Prevalence Inde		,
LENCHOCEN	<u> </u>	FAC	1000	Adaptations <sup>1</sup> (Provide	supporting
MINIONEX		FAC		arks or on a separate	
8. Hemizonia	Total Cover: 8 %	FACW	Problematic Hye	drophytic Vegetation <sup>1</sup>	(Explain)
Woody Vine Stratum UNKNOWN AKO	diviced 2"	THON		•	
1. Hordeum so	. 20	FAC	Indicators of hydric be present.	soil and wetland hyd	drology must
2	No mark of the second		· · · · · · · · · · · · · · · · · · ·	<u></u>	
	Total Cover: 55%		Hydrophytic Vegetation		
% Bare Ground in Herb Stratum 30 %	% Cover of Biotic Crust	.%	Present?	Yes No C	
Remarks:	<del></del>				
	+ \$ 	•	1 1		
			•		
				V1.11	· .

Sampling Point: Fa

Profile Description: (Describe to the depth needed to document the indicator or co	onfirm the absence of indicators.)
Depth Matrix Redox Features	
	DC <sup>2</sup> Texture <sup>3</sup> Remarks
D-6 2.5Y 3/2 2.5Y 3/1 60	<u> </u>
2.5 Y 4/3 5	
10YR 410 1	
6-14 2.57 3/2 5Y 2.5/2 45	<u> </u>
2.5 Y 4/4 20	
	<u>i kan sulan sama samusah pahin merupakan kenalah salah samu</u>
	ing, RC=Root Channel, M=Matrix.
<sup>3</sup> Soil Textures: Clay, Silty Clay, Sandy Clay, Loam, Sandy Clay Loam, Sandy Loam, Cla	
Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)	Indicators for Problematic Hydric Soils:
Histosol (A1) Sandy Redox (S5) Histic Epipedon (A2) Stripped Matrix (S6)	1 cm Muck (A9) (LRR C) 2 cm Muck (A10) (LRR B)
Black Histic (A3)    Stripped Matrix (30)   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)	
Sandy Mucky Mineral (S1) Vernal Pools (F9)	Indicators of hydrophytic vegetation and
Sandy Gleyed Matrix (S4)	wetland hydrology must be present.
Restrictive Layer (if present):	
Type:	
Depth (inches):	Hydric Soil Present? Yes 🔊 No 🔿
Remarks:	
HYDROLOGY	
	Secondary Indiastors (2 or more required)
Wetland Hydrology Indicators:	Secondary Indicators (2 or more required)
Wetland Hydrology Indicators:  Primary Indicators (any one indicator is sufficient)	Water Marks (B1) (Riverine)
Wetland Hydrology Indicators:  Primary Indicators (any one indicator is sufficient)  Surface Water (A1)  Salt Crust (B11)	Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine)
Wetland Hydrology Indicators:  Primary Indicators (any one indicator is sufficient)  Surface Water (A1)  High Water Table (A2)  Salt Crust (B11)  Biotic Crust (B12)	Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine)
Primary Indicators (any one indicator is sufficient)  Surface Water (A1)  High Water Table (A2)  Salt Crust (B11)  Biotic Crust (B12)  Aquatic Invertebrates (B13)	Water Marks (B1) (Riverine)  Sediment Deposits (B2) (Riverine)  Drift Deposits (B3) (Riverine)  Drainage Patterns (B10)
Wetland Hydrology Indicators:  Primary Indicators (any one indicator is sufficient)  Surface Water (A1)  High Water Table (A2)  Saturation (A3)  Water Marks (B1) (Nonriverine)  Saturation (A3)  Hydrogen Sulfide Odor (C1)	Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2)
Wetland Hydrology Indicators:  Primary Indicators (any one indicator is sufficient)  Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonriverine) Hydrogen Sulfide Odor (C1) Sediment Deposits (B2) (Nonriverine) Oxidized Rhizospheres along Livin	Water Marks (B1) (Riverine)  Sediment Deposits (B2) (Riverine)  Drift Deposits (B3) (Riverine)  Drainage Patterns (B10)  Dry-Season Water Table (C2)  Thin Muck Surface (C7)
Wetland Hydrology Indicators:  Primary Indicators (any one indicator is sufficient)  Surface Water (A1) High Water Table (A2) Saturation (A3) Hydrogen Sulfide Odor (C1) Sediment Deposits (B2) (Nonriverine) Drift Deposits (B3) (Nonriverine) Presence of Reduced Iron (C4)	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)
Wetland Hydrology Indicators:  Primary Indicators (any one indicator is sufficient)  Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonriverine) Sediment Deposits (B2) (Nonriverine) Drift Deposits (B3) (Nonriverine) Surface Soil Cracks (B6)  Wetland Hydrology Indicators: Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Livin Presence of Reduced Iron (C4)	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)  Soils (C6)  Saturation Visible on Aerial Imagery (C9)
Wetland Hydrology Indicators:  Primary Indicators (any one indicator is sufficient)  Surface Water (A1)  High Water Table (A2)  Saturation (A3)  Water Marks (B1) (Nonriverine)  Sediment Deposits (B2) (Nonriverine)  Drift Deposits (B3) (Nonriverine)  Surface Soil Cracks (B6)  Inundation Visible on Aerial Imagery (B7)  Salt Crust (B11)  Biotic Crust (B12)  Aquatic Invertebrates (B13)  Hydrogen Sulfide Odor (C1)  Oxidized Rhizospheres along Livin  Presence of Reduced Iron (C4)  Recent Iron Reduction in Plowed S	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)  Soils (C6)  Saturation Visible on Aerial Imagery (C9)  Shallow Aquitard (D3)
Wetland Hydrology Indicators:  Primary Indicators (any one indicator is sufficient)  Surface Water (A1)  High Water Table (A2)  Saturation (A3)  Water Marks (B1) (Nonriverine)  Sediment Deposits (B2) (Nonriverine)  Drift Deposits (B3) (Nonriverine)  Surface Soil Cracks (B6)  Inundation Visible on Aerial Imagery (B7)  Water Stained Leaves (B9)  Water Crust (B11)  Biotic Crust (B12)  Aquatic Invertebrates (B13)  Hydrogen Sulfide Odor (C1)  Oxidized Rhizospheres along Livin  Presence of Reduced Iron (C4)  Recent Iron Reduction in Plowed Sulfide Odor (C4)  Other (Explain in Remarks)	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)  Soils (C6)  Saturation Visible on Aerial Imagery (C9)
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Wetland Hydrology Indicators:  Primary Indicators (any one indicator is sufficient)  Surface Water (A1) High Water Table (A2) Saturation (A3) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Sediment Deposits (B2) (Nonriverine) Drift Deposits (B3) (Nonriverine) Presence of Reduced Iron (C4) Surface Soil Cracks (B6) Recent Iron Reduction in Plowed Sediment Deposits (B9) Field Observations: Surface Water Present? Water Table Present? Yes No Depth (inches): Saturation Present? Yes No Depth (inches):	Water Marks (B1) (Riverine)  Sediment Deposits (B2) (Riverine)  Drift Deposits (B3) (Riverine)  Drainage Patterns (B10)  Dry-Season Water Table (C2)  Thin Muck Surface (C7)  Crayfish Burrows (C8)  Saturation Visible on Aerial Imagery (C9)  Shallow Aquitard (D3)  FAC-Neutral Test (D5)  Wetland Hydrology Present? Yes No
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Section   State   Ca   Sampling Point   State   Ca   Sampling Point   Sa	Project/Site: Las Bass	Defension Dan cityle	County: Los	Bans Merce	Sampling Date: 5/15/04
Section, Township, Range:   Local relief (concave, convex, none):   Slope (%):   Justice;   Justice;   Lat:   Long:   Local relief (concave, convex, none):   Datum:   Congulation   Datum:   Long:   Datum:   Long:   Datum:   Long:   Datum:   Long:   NW classification:   Congulation   Datum:   NW classification:   Congulation   Congulation   Datum:   NW classification:   Congulation   Congul	Applicant/Owner:			State: CA	Sampling Point:
Local relief (concave, convex, none):   Slope (%):   Jubrespin (LRR):   Lat:   Long:   Datum	Investigator(s): L. Castro	C. Verdson / Secti	on, Township, Rang	 ge:	
Solid Map Unit Name:   Lat:   Long:   Datum:   NWI classification:   NWI classificatio	Landform (hillslope, terrace, etc.):	- April 1	I relief (concave, co	onvex, none):	Slope (%):
Soliman   Description	<del></del>	· · · · · · · · · · · · · · · · · · ·	•	· ————	Datum:
Very Editatio   hydrologic conditions on the site typical for this time of year? Yes   No (iff no, explain in Remarks.)				· · · · · · · · · · · · · · · · · · ·	<del></del>
Very Vegetation   Soil   or Hydrology   significantly disturbed?   Are "Normal Circumstances" present? Yes   No (		n the site typical for this time of year?	∕es 🛇 No C	<del></del>	
Summary   Summ	· ·				
SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc.  Hydrophytic Vegetation Present?  Yes				the second second	
Hydric Soil Present?   Yes @ No @ 244   Is the Sampled Area   Wetland Hydrology Present?   Yes @ No @ within a Wetland?   Yes @ No @   Yes @ Yes @ No @   Yes @ No @   Yes @ No @   Yes @ No @   Yes @ Yes @ No @   Yes @ Yes @ No @   Yes @ No @   Yes @ Yes @ No @   Yes @ Yes @ Yes @ Yes @ Yes @ No @   Yes @ Yes @ Yes @ No @   Yes @ Yes @ Yes @ No @   Yes @ Yes @ Yes @ Yes @ Yes @ Yes @ Yes @ Yes @ Yes @ Yes @ Yes @ Yes @ Yes @ Yes @ Yes @ Yes @ No @   Yes @ Y			,		
Saping/Shrub Stratum   Total Cover   Saping/Shrub Stratum   Saping/Shrub Shrub	Lived and the Manager of the Company				
Wetland Hydrology Present?     Yes     No     within a Wetland?     Yes     No     Xes       Remarks:     Wedland Hydrology Present?     Yes     No     Xes       Nemarks:     No     Within a Wetland?     Yes     No     Xes       Yes     No     Xes     No     Xes       Tree Stratum (Use scientific names.)     Absolute Species? Status Number of Dominant Species That Are OBL, FACW, or FAC:     Number of Dominant Species That Are OBL, FACW, or FAC:     9     (A)       1.     Yes     Yes     No     Yes     Yes     Number of Dominant Species That Are OBL, FACW, or FAC:     9     (A)       2.     Sapling/Shrub Stratum     Total Cover:     Yes     Yes <td< td=""><td></td><td>. 70%</td><td>is the Sampled /</td><td>\roa</td><td></td></td<>		. 70%	is the Sampled /	\roa	
Remarks:			1		No W
Absolute   Species   Status			Within a Welland	163 (	, NO (X)
Absolute   Species   Status			*		
Absolute   Species   Status					
Absolute   Species   Status					
Tree Stratum (Use scientific names.)   % Cover   Species?   Status	VEGETATION				
Total Cover:    A	Tree Stratum (Use scientific name	the state of the s			7
Total Number of Dominant Species Across All Strate:  Sapling/Shrub Stratum  1. All Squil   Prevalence Index worksheet:  Total Cover:  3. OBL species   X 1 = 0   FACW species   X 2 = 0   FACW species   X 4 = 0   FACW speci	`				
Species Across All Strata: 0 (B)  4. Percent of Dominant Species That Are OBL, FACW, or FAC: 0 % (A/B)  Prevalence Index worksheet: Total % Cover of: Multiply by:  3. OBL species				Total Number of Dem	vinant Z
Total Cover:   Mode   Percent of Dominant Species   That Are OBL, FACW, or FAC:   0 % (A/B)	3.				and the state of t
Total Cover: %  That Are OBL, FACW, or FAC: 0 % (A/B)  Prevalence Index worksheet:  Total % Cover of: Multiply by:  OBL species	4			Percent of Dominant	Species 100
Total % Cover of:	Sapling/Shrub Stratum	Total Cover: %			Land Authorite Manager Co.
3.  4.	1. Alasauto Proco	M16			
FACW species		<u> </u>			1004989001 VG28890051
FAC species x 3 = 0 FACU species x 4 = 0 UPL species x 5 = 0 UPL species x 5 = 0 Column Totals: (A) 0 (B)  Prevalence Index = B/A =  Hydrophytic Vegetation Indicators:  Dominance Test is >50% Prevalence Index is ≤3.0¹  Problematic Hydrophytic Vegetation¹ (Explain)  **Indicators of hydric soil and wetland hydrology must be present.  **Indicators of hydric soil and wetland hydrology must be present.  **Hydrophytic Vegetation Present? Yes (**No (				. 1	100000
Total Cover: %  Herb Stratum  1. Lenvium  2. Brodin  3. Cynndilia camp  4. Linvia camp  5. Millohe indicator  6. Pumor  7. Lunia Cover: %  8. Givina Cover: %  Woody Vine Stratum  1. Cover: %  Woody Vine Stratum  1. Total Cover: %  Was Bare Ground in Herb Stratum  % Cover of Biotic Crust  % FACU species  x 4 = 0  UPL species  x 5 = 0  Column Totals: (A) 0 (B)  Prevalence Index = B/A =  Hydrophytic Vegetation Indicators:  Dominance Test is >50%  Prevalence Index is ≤3.0¹  Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet)  Problematic Hydrophytic Vegetation¹ (Explain)  'Indicators of hydric soil and wetland hydrology must be present.  Wydrophytic Vegetation  Present? Yes Ø No C				175	
Herb Stratum   10	) °.	Total Cover: %		142	
1. Limitum (10) FACW Column Totals: (A) (B) 2. Brodia 5 VPL 3. Cyundelia cand 2 FACU Prevalence Index = B/A = 4. Lindac IP FACU Prevalence Index = B/A = 4. Lindac IP FACU Prevalence Index is \$3.0° 6. Pintub IP FACU Prevalence Index is \$3.0° 7. Lindus IP FACU Prevalence Index is \$3.0° 8. Giv nub 2 Dominance Test is >50% Prevalence Index is \$3.0° Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet) Total Cover: % Problematic Hydrophytic Vegetation¹ (Explain)  VPL  1. Total Cover: % Hydrophytic Vegetation Present? Yes © No C	Herb Stratum	, contains of the contains of		•	x5=
2. Brodia 3. Cyindilia camp 4. Indiac 4. Indiac 5. Millohe indiac 6. Pamer 7. Junius 8. Givindi 1. Total Cover:  Woody Vine Stratum 1. Total Cover:  % Bare Ground in Herb Stratum  % Cover of Biotic Crust  Prevalence Index = B/A =  Hydrophytic Vegetation Indicators:  Dominance Test is >50%  Prevalence Index is ≤3.0¹  Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet)  Problematic Hydrophytic Vegetation¹ (Explain)  ¹Indicators of hydric soil and wetland hydrology must be present.  Hydrophytic Vegetation  Yes Ø No C	1. Lendun	(10)	FACW	14	1.0000001.LLV
4. Pundidac.  5. Millohs indua.  6. Pundidac.  7. Junius  8. Gilvohs  Woody Vine Stratum  1. Total Cover:  % Bare Ground in Herb Stratum  % Cover of Biotic Crust  Hydrophytic Vegetation Indicators:  Dominance Test is >50%  Prevalence Index is ≤3.0¹  Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet)  Problematic Hydrophytic Vegetation¹ (Explain)  ¹Indicators of hydric soil and wetland hydrology must be present.  Hydrophytic Vegetation  Yes Ø No C	2. Brodia	5	UPL		The second secon
5. M, I John INCL 6. Prevalence Index is >50% Prevalence Index is ≤3.0¹ Prevalence Index is ≤3.0¹ Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet)  North Linds  VPL  1. Total Cover:  We Bare Ground in Herb Stratum  % Cover of Biotic Crust  Provide supporting data in Remarks or on a separate sheet)  Problematic Hydrophytic Vegetation¹ (Explain)  Indicators of hydric soil and wetland hydrology must be present.  Hydrophytic Vegetation  Present?  Yes  No C	ISVINALIJA COMO	2	FACU		0.3836.20
6. Punch 7. June (105) 8. GILV m.G. 1. Total Cover:  Woody Vine Stratum 1. Total Cover:  % Bare Ground in Herb Stratum  % Cover of Biotic Crust  Prevalence Index is ≤3.0¹  Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet)  Problematic Hydrophytic Vegetation¹ (Explain)  ¹Indicators of hydric soil and wetland hydrology must be present.  Hydrophytic Vegetation  Present?  Yes  No	TAIR! (ICIC)				
7. Junicus 40. Show of the Stratum by the Vegetation 1 (Provide supporting data in Remarks or on a separate sheet)  Norphological Adaptations 1 (Provide supporting data in Remarks or on a separate sheet)  Problematic Hydrophytic Vegetation 1 (Explain)  1. Indicators of hydric soil and wetland hydrology must be present.  Total Cover: %  Bare Ground in Herb Stratum % Cover of Biotic Crust %  Problematic Hydrophytic Vegetation VPL  Hydrophytic Vegetation  Present? Yes V No C	MINIONS INCOME			- 7,000 i	
8. GIV nub  Vran Lunia. / Total Cover:  Woody Vine Stratum  1.  Total Cover:  Bare Ground in Herb Stratum  % Cover of Biotic Crust  ACW TVO  data in Remarks or on a separate sheet)  Problematic Hydrophytic Vegetation¹ (Explain)  Indicators of hydric soil and wetland hydrology must be present.  Hydrophytic Vegetation  Present?  Yes  No	7 \ \ 7	<u> </u>		<u></u>	
Problematic Hydrophytic Vegetation¹ (Explain)  Woody Vine Stratum  1.  2.  Total Cover:  %  Hydrophytic  Vegetation  Yes  No	- Juneus				
Woody Vine Stratum  1. 2.  Total Cover:  % Bare Ground in Herb Stratum  % Cover of Biotic Crust  VPL  Indicators of hydric soil and wetland hydrology must be present.  Hydrophytic Vegetation Present?  Yes V No C				Problematic Hyd	rophytic Vegetation¹ (Explain)
2. Total Cover: % Hydrophytic Vegetation Present? Yes Vo No C		< 1			
Total Cover: % Hydrophytic Vegetation Present? Yes V No C	·· <del>···································</del>			•	soil and wetland hydrology must
% Bare Ground in Herb Stratum  % Cover of Biotic Crust  % Vegetation Present? Yes  No C	2			<del></del>	<u> </u>
		A		Vegetation	
		% Cover of Biotic Crust	<u></u> %	Present?	Yes 🕜 No 🦳
	Remarks:				
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transition area only one hole due hole 36 not continued Picture		1 - wa any	The.	01	whenlet Perture
TIS A TONG CORDS OF ENGINEERS			, we	ov not u	taken.

hole hear buckpack Arid West - Version 11-1-2006

Sampling Point: 8a\_

Depth Matrix						the absence of	
	<u> </u>		c Features			·	
(inches) Color (moist) %	Color (	(moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture <sup>3</sup>	Remarks
0-3 2.54 3/2 10	<u> </u>				M	SL	very little modeline
3- 2.51 4/2	2.57	5/4	41%	₹€:	· M	SCL C	· lots of gravet
	CY 2.	5/2	12	$\overline{\mathcal{L}}$	m	·	<del></del>
		/-	· 10				·
	<del>-</del>		· <del></del> -	• •			· <del>. `` </del>
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							entropia de la martina de la francia de la compansión de la compansión de la compansión de la compansión de la
<sup>1</sup> Type: C=Concentration, D=Depletion, RI	M=Reduced	Matrix	2l ocation	: Pl =Pore	Lining RO	C=Root Channel,	M=Matrix
<sup>3</sup> Soil Textures: Clay, Silty Clay, Sandy Clay							
Hydric Soil Indicators: (Applicable to all L							Problematic Hydric Soils:
Histosol (A1)		andy Redo	car en la company	* •			k (A9) (LRR C)
Histic Epipedon (A2)		Stripped Ma	The state of the s				k (A10) (LRR B)
Black Histic (A3)	L	oamy Muc	ky Minera	l (F1)		Reduced	Vertic (F18)
Hydrogen Sulfide (A4)		oamy Gley	ed Matrix	(F2)		Red Pare	nt Material (TF2)
Stratified Layers (A5) (LRR C)	· L	Depleted M	٠,	1		Other (Ex	plain in Remarks)
1 cm Muck (A9) (LRR D)		Redox Dark					
Depleted Below Dark Surface (A11)		Depleted Da				***	
Thick Dark Surface (A12)	4 1 1 4 4 4 4	Redox Dep		-8)		4	
Sandy Mucky Mineral (S1)	. []\	/ernal Pool	s (F9)				hydrophytic vegetation and
Sandy Gleyed Matrix (S4)	<u> </u>			•		wetiand ny	drology must be present.
Restrictive Layer (if present):	<u>.</u> .				ar i		
Type:	<u> </u>						
Depth (inches):		· · · · · · · · · · · · · · · · · · ·			<u> </u>	Hydric Soil Pr	esent? Yes No 🕅
Remarks:							
HYDROLOGY							
						Caanda	Ladicators (2 an age sequired)
Wetland Hydrology Indicators:							ry Indicators (2 or more required)
Wetland Hydrology Indicators:  Primary Indicators (any one indicator is su	ufficient)					Wate	er Marks (B1) (Riverine)
Wetland Hydrology Indicators:  Primary Indicators (any one indicator is su  Surface Water (A1)	ufficient)	Salt Crust				Wate	er Marks (B1) (Riverine) ment Deposits (B2) (Riverine)
Wetland Hydrology Indicators:  Primary Indicators (any one indicator is su  Surface Water (A1)  High Water Table (A2)	ıfficient)	Biotic Crus	st (B12)			Wate	er Marks (B1) (Riverine) ment Deposits (B2) (Riverine) Deposits (B3) (Riverine)
Wetland Hydrology Indicators:  Primary Indicators (any one indicator is su  Surface Water (A1)  High Water Table (A2)  Saturation (A3)	ufficient)	Biotic Crus Aquatic In	st (B12) vertebrate			Wate Sedi Drift Drain	er Marks (B1) (Riverine) ment Deposits (B2) (Riverine) Deposits (B3) (Riverine) nage Patterns (B10)
Wetland Hydrology Indicators:  Primary Indicators (any one indicator is su  Surface Water (A1)  High Water Table (A2)  Saturation (A3)  Water Marks (B1) (Nonriverine)		Biotic Crus Aquatic In Hydrogen	st (B12) vertebrate Sulfide Od	dor (C1)		Wate Sedi Drift Drain Dry-	er Marks (B1) (Riverine) ment Deposits (B2) (Riverine) Deposits (B3) (Riverine) nage Patterns (B10) Season Water Table (C2)
Wetland Hydrology Indicators:  Primary Indicators (any one indicator is su  Surface Water (A1)  High Water Table (A2)  Saturation (A3)  Water Marks (B1) (Nonriverine)  Sediment Deposits (B2) (Nonriverine)		Biotic Crus Aquatic In Hydrogen Oxidized F	st (B12) vertebrate Sulfide Oo Rhizosphe	dor (C1) res along l	_	Wate   Wate   Sedi   Drift   Drain   Dry-ts (C3)   Thin	er Marks (B1) (Riverine) ment Deposits (B2) (Riverine) Deposits (B3) (Riverine) nage Patterns (B10) Season Water Table (C2) Muck Surface (C7)
Wetland Hydrology Indicators:  Primary Indicators (any one indicator is sue Surface Water (A1)  High Water Table (A2)  Saturation (A3)  Water Marks (B1) (Nonriverine)  Sediment Deposits (B2) (Nonriverine)  Drift Deposits (B3) (Nonriverine)		Biotic Crus Aquatic In Hydrogen Oxidized F Presence	st (B12) vertebrate Sulfide Oo Rhizosphe of Reduce	dor (C1) res along l d Iron (C4	•)	Wate   Wate   Sedi   Drift   Drain   Dry-ts (C3)   Thin   Cray	er Marks (B1) (Riverine) ment Deposits (B2) (Riverine) Deposits (B3) (Riverine) nage Patterns (B10) Season Water Table (C2) Muck Surface (C7) rfish Burrows (C8)
Wetland Hydrology Indicators:  Primary Indicators (any one indicator is sue 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)	)   	Biotic Crus Aquatic In Hydrogen Oxidized F Presence Recent Iro	st (B12) vertebrate Sulfide Oc Rhizosphe of Reduce in Reducti	dor (C1) res along I d Iron (C4 on in Plow	_	Wate   Sedi   Drift   Drain   Dry-ts (C3)   Thin   Cray   Satu	er Marks (B1) (Riverine) ment Deposits (B2) (Riverine) Deposits (B3) (Riverine) nage Patterns (B10) Season Water Table (C2) Muck Surface (C7) rfish Burrows (C8) rration Visible on Aerial Imagery (C9)
Wetland Hydrology Indicators:  Primary Indicators (any one indicator is su  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 (	)   	Biotic Crus Aquatic In Hydrogen Oxidized F Presence	st (B12) vertebrate Sulfide Oc Rhizosphe of Reduce in Reducti	dor (C1) res along I d Iron (C4 on in Plow	•)	Wate   Sedi   Drift   Drain   Dry-ts (C3)   Thin   Cray   Cay   Satu   Shall	er Marks (B1) (Riverine) ment Deposits (B2) (Riverine) Deposits (B3) (Riverine) nage Patterns (B10) Season Water Table (C2) Muck Surface (C7) rfish Burrows (C8) rration Visible on Aerial Imagery (C9) low Aquitard (D3)
Wetland Hydrology Indicators:  Primary Indicators (any one indicator is sue 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)	)   	Biotic Crus Aquatic In Hydrogen Oxidized F Presence Recent Iro	st (B12) vertebrate Sulfide Oc Rhizosphe of Reduce in Reducti	dor (C1) res along I d Iron (C4 on in Plow	•)	Wate   Sedi   Drift   Drain   Dry-ts (C3)   Thin   Cray   Cay   Satu   Shall	er Marks (B1) (Riverine) ment Deposits (B2) (Riverine) Deposits (B3) (Riverine) nage Patterns (B10) Season Water Table (C2) Muck Surface (C7) rfish Burrows (C8) rration Visible on Aerial Imagery (C9)
Wetland Hydrology Indicators:  Primary Indicators (any one indicator is sue 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 (	)   	Biotic Crus Aquatic In Hydrogen Oxidized F Presence Recent Iro	st (B12) vertebrate Sulfide Oc Rhizosphe of Reduce in Reducti	dor (C1) res along I d Iron (C4 on in Plow	•)	Wate   Sedi   Drift   Drain   Dry-ts (C3)   Thin   Cray   Cay   Satu   Shall	er Marks (B1) (Riverine) ment Deposits (B2) (Riverine) Deposits (B3) (Riverine) nage Patterns (B10) Season Water Table (C2) Muck Surface (C7) rfish Burrows (C8) rration Visible on Aerial Imagery (C9) low Aquitard (D3)
Wetland Hydrology Indicators:  Primary Indicators (any one indicator is sue 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 (Water-Stained Leaves (B9)	)   	Biotic Crus Aquatic In Hydrogen Oxidized F Presence Recent Iro	st (B12) vertebrate Sulfide Oc Rhizosphe of Reduce in Reducti blain in Re	dor (C1) res along I d Iron (C4 on in Plow	•)	Wate   Sedi   Drift   Drain   Dry-ts (C3)   Thin   Cray   Cay   Satu   Shall	er Marks (B1) (Riverine) ment Deposits (B2) (Riverine) Deposits (B3) (Riverine) nage Patterns (B10) Season Water Table (C2) Muck Surface (C7) rfish Burrows (C8) rration Visible on Aerial Imagery (C9) low Aquitard (D3)
Wetland Hydrology Indicators:  Primary Indicators (any one indicator is sue 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 (Water-Stained Leaves (B9)  Field Observations:	))	Biotic Crus Aquatic In Hydrogen Oxidized F Presence Recent Iro Other (Exp	st (B12) vertebrate Sulfide Oc Rhizosphe of Reduce in Reducti blain in Re ches):	dor (C1) res along I d Iron (C4 on in Plow	•)	Wate   Sedi   Drift   Drain   Dry-ts (C3)   Thin   Cray   Cay   Satu   Shall	er Marks (B1) (Riverine) ment Deposits (B2) (Riverine) Deposits (B3) (Riverine) nage Patterns (B10) Season Water Table (C2) Muck Surface (C7) rfish Burrows (C8) rration Visible on Aerial Imagery (C9) low Aquitard (D3)
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Wetland Hydrology Indicators:  Primary Indicators (any one indicator is sue 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 (Water-Stained Leaves (B9)  Field Observations:  Surface Water Present?  Water Table Present?  Yes Caturation Present?  Yes Cincludes capillary fringe)	(B7) C No C No C	Biotic Crus Aquatic In Hydrogen Oxidized F Presence Recent Iro Other (Exp Depth (in Depth (in	st (B12) vertebrate Sulfide Oc Rhizosphe of Reduce in Reducti blain in Re ches): ches):	dor (C1) res along I res along I res along I red Iron (C4 on in Plow marks)	ved Soils (C	Wate   Sedi   Drift   Drain   Dry-ts (C3)   Thin   Cray   Satu   Shal   FAC	er Marks (B1) (Riverine) ment Deposits (B2) (Riverine) Deposits (B3) (Riverine) nage Patterns (B10) Season Water Table (C2) Muck Surface (C7) rfish Burrows (C8) rration Visible on Aerial Imagery (C9) low Aquitard (D3) -Neutral Test (D5)
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Wetland Hydrology Indicators:  Primary Indicators (any one indicator is sue 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 (Water-Stained Leaves (B9))  Field Observations:  Surface Water Present?  Water Table Present?  Yes  Saturation Present?  Yes  (includes capillary fringe)  Describe Recorded Data (stream gauge, research in the surface of the su	(B7) C No C No C	Biotic Crus Aquatic In Hydrogen Oxidized F Presence Recent Iro Other (Exp Depth (in Depth (in	st (B12) vertebrate Sulfide Oc Rhizosphe of Reduce in Reducti blain in Re ches): ches):	dor (C1) res along I res along I res along I red Iron (C4 on in Plow marks)	ved Soils (C	Wate   Sedi   Drift   Drain   Dry-ts (C3)   Thin   Cray   Satu   Shal   FAC	er Marks (B1) (Riverine) ment Deposits (B2) (Riverine) Deposits (B3) (Riverine) nage Patterns (B10) Season Water Table (C2) Muck Surface (C7) rfish Burrows (C8) rration Visible on Aerial Imagery (C9) low Aquitard (D3) -Neutral Test (D5)
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