

Exhibit EE. Jamestown Business Park USACE Jurisdictional Determination and Wetlands Delineationn





DEPARTMENT OF THE ARMY CORPS OF ENGINEERS, NEW ORLEANS DISTRICT 7400 LEANE AVENUE NEW ORLEANS, LOUISIANA 70118

April 10, 2017

ATTENTION OF Operations Division Surveillance and Enforcement Section

Mr. Mike Henry HYDRIK 2323 Highway 190 East, Suite 2 Hammond, Louisiana 70401

Jamestown Business Park USACE Jurisdictional Determination

Dear Mr. Henry:

Reference is made to your request, on behalf of Jamestown, Inc., for a U.S. Army Corps of Engineers' (Corps) jurisdictional determination on property located in Sections 21 and 28, Township 6 South, Range 8 East, Tangipahoa Parish, Louisiana (enclosed map). Specifically, this property is identified as a 258.5-acre tract located south of US Route 190 and west of Coburn Road.

Based on review of recent maps, aerial photography, soils data, the information provided with your request, and field inspections on March 8, 2017 and March 16, 2017, we have determined that part of the property is wetland and may be subject to Corps' jurisdiction. The approximate limits of the wetland are designated in red on the map. A Department of the Army (DA) permit under Section 404 of the Clean Water Act will be required prior to the deposition or redistribution of dredged or fill material into wetlands that are waters of the United States. Additionally, a DA permit will be required if you propose to deposit dredged or fill material into other waters subject to Corps' jurisdiction. Other waters that may be subject to Corps' jurisdiction are indicated in blue on the map.

You and your client are advised that this preliminary jurisdictional determination is valid for a period of 5 years from the date of this letter unless new information warrants revision prior to the expiration date or the District Commander has identified, after public notice and comment, that specific geographic areas with rapidly changing environmental conditions merit re-verification on a more frequent basis.

Should there be any questions concerning these matters, please contact Mr. Kyle Gordon at (504) 862-1627 and reference our Account No. MVN-2017-00125-SA. If you have specific questions regarding the permit process or permit applications, please contact our Eastern Evaluation Section at (504) 862-2292.

Sincerely, NETHERY.WILLI Internet States of the second states of the sec

Enclosures



PRELIMINARY JURISDICTIONAL DETERMINATION (PJD) FORM

BACKGROUND INFORMATION

1

A. REPORT COMPLETION DATE FOR PJD: April 10, 2017

B. NAME AND ADDRESS OF PERSON REQUESTING PJD:

Mr. Mike Henry, HYDRIK 2323 Highway 190 East, Suite 2 Hammond, Louisiana 70401

C. DISTRICT OFFICE, FILE NAME, AND NUMBER: MVN-2017-00125-SA

D. PROJECT LOCATION(S) AND BACKGROUND INFORMATION:

(USE THE TABLE BELOW TO DOCUMENT MULTIPLE AQUATIC RESOURCES AND/OR AQUATIC RESOURCES AT DIFFERENT SITES)

State: Louisiana County/parish/borough: Tangipahoa City: Hammond

Center coordinates of site (lat/long in degree decimal format):

Lat.: 30.503599° Long.: -90.402745°

Universal Transverse Mercator:

Name of nearest waterbody: Selser's Creek Branch

E. REVIEW PERFORMED FOR SITE EVALUATION (CHECK ALL THAT APPLY):

Office (Desk) Determination. Date:

Field Determination. Date(s): 8 March 2017, 16 March 2017

TABLE OF AQUATIC RESOURCES IN REVIEW AREA WHICH "MAY BE" SUBJECT TO REGULATORY JURISDICTION.

Site number	Latitude (decimal degrees)	Longitude (decimal degrees)	Estimated amount of aquatic resource in review area (acreage and linear feet, if applicable)	Type of aquatic resource (i.e., wetland vs. non-wetland waters)	Geographic authority to which the aquatic resource "may be" subject (i.e., Section 404 or Section 10/404)
WET	30.504514	-90.402538	35.35 acres	wetland	404
WAT	30.185217	-90.925521	4183 feet	non-wetland waters	404

SUPPORTING DATA. Data reviewed for PJD (check all that apply)

1.

١.

Checked items should be included in subject file. Appropriately reference sources below where indicated for all checked items:

Maps, plans, plots or plat submitted by or on behalf of the PJD requestor: Map: wetland delineation				
 Data sheets prepared/submitted by or on behalf of the PJD requestor. Office concurs with data sheets/delineation report. Office does not concur with data sheets/delineation report. Rationale: 				
Data sheets prepared by the Corps:				
Corps navigable waters' study:				
🔀 U.S. Geological Survey Hydrologic Atlas:				
USGS NHD data. X USGS 8 and 12 digit HUC maps.				
U.S. Geological Survey map(s). Cite scale & quad name: 1:24,000 Hammond				
Natural Resources Conservation Service Soil Survey. Citation: NRCS WSS				
X National wetlands inventory map(s). Cite name: U.S. Fish & Wildlife NWI				
State/local wetland inventory map(s):				
FEMA/FIRM maps:				
 100-year Floodplain Elevation is: (National Geodetic Vertical Datum of 1929) Photographs: X Aerial (Name & Date): 1998, 2004, 2005, 2008, 2010, 2012, 2013 CIR 				
or X Other (Name & Date): Site photos provided by consultant (20 Oct16)				
Revious determination(s). File no. and date of response letter:				
Other information (please specify): LiDAR				

IMPORTANT NOTE: The information recorded on this form has not necessarily been verified by the Corps and should not be relied upon for later jurisdictional determinations.

GORDON.KYLE.BR Det of La Commun. and Day ADLEY.1287054153 and deton in Fisher EV.1287054153 and deton in the second and the mediation in the second and the Based and the second and the second and the Based and the second and the second and the Based and the second and the second and the second and the Based and the second and the second

Signature and date of Regulatory staff member completing PJD ON REQUEST FORM (12/28/16)

Signature and date of person requesting PJD (REQUIRED, unless obtaining the signature is impracticable)¹

¹ Districts may establish timeframes for requestor to return signed PJD forms. If the requestor does not respond within the established time frame, the district may presume concurrence and no additional follow up is necessary prior to finalizing an action.

- The Corps of Engineers believes that there may be jurisdictional aquatic resources in the review area, and the requestor of this PJD is hereby advised of his or her option to request and obtain an approved JD (AJD) for that review area based on an informed decision after having discussed the various types of JDs and their characteristics and circumstances when they may be appropriate.
- 2) In any circumstance where a permit applicant obtains an individual permit, or a Nationwide General Permit (NWP) or other general permit verification requiring "preconstruction notification" (PCN), or requests verification for a non-reporting NWP or other general permit, and the permit applicant has not requested an AJD for the activity, the permit applicant is hereby made aware that: (1) the permit applicant has elected to seek a permit authorization based on a PJD, which does not make an official determination of jurisdictional aquatic resources; (2) the applicant has the option to request an AJD before accepting the terms and conditions of the permit authorization, and that basing a permit authorization on an AJD could possibly result in less compensatory mitigation being required or different special conditions; (3) the applicant has the right to request an individual permit rather than accepting the terms and conditions of the NWP or other general permit authorization; (4) the applicant can accept a permit authorization and thereby agree to comply with all the terms and conditions of that permit, including whatever mitigation requirements the Corps has determined to be necessary; (5) undertaking any activity in reliance upon the subject permit authorization without requesting an AJD constitutes the applicant's acceptance of the use of the PJD; (6) accepting a permit authorization (e.g., signing a proffered individual permit) or undertaking any activity in reliance on any form of Corps permit authorization based on a PJD constitutes agreement that all aguatic resources in the review area affected in any way by that activity will be treated as jurisdictional, and waives any challenge to such jurisdiction in any administrative or judicial compliance or enforcement action, or in any administrative appeal or in any Federal court; and (7) whether the applicant elects to use either an AJD or a PJD, the JD will be processed as soon as practicable. Further, an AJD, a proffered individual permit (and all terms and conditions contained therein), or individual permit denial can be administratively appealed pursuant to 33 C.F.R. Part 331. If, during an administrative appeal, it becomes appropriate to make an official determination whether geographic jurisdiction exists over aquatic resources in the review area, or to provide an official delineation of jurisdictional aquatic resources in the review area, the Corps will provide an AJD to accomplish that result, as soon as is practicable. This PJD finds that there "may be" waters of the U.S. and/or that there "may be" navigable waters of the U.S. on the subject review area, and identifies all aquatic features in the review area that could be affected by the proposed activity, based on the following information:

NOTIFICATION OF ADMINISTRATIVE APPEAL OP REQUEST FOR APPEAL	TIONS AND PROCESS AND		
Applicant: Mr. Mike Henry on behalf of Jamestown, Inc. File Number: M	VN-2017-00125-SA Date: April 10. 2017		
Attached is:	See Section below		
INITIAL PROFFERED PERMIT (Standard Permit or Letter of	permission) A		
PROFFERED PERMIT (Standard Permit or Letter of permiss	sion) B		
PERMIT DENIAL	С		
APPROVED JURISDICTIONAL DETERMINATION	D		
PRELIMINARY JURISDICTIONAL DETERMINATION	E		
 SECTION I - The following identifies your rights and options regarding decision. Additional information may be found at http://www.usace.armv.mil/Missions/CivilWorks/RegulatoryPrograms regulations at 33 CFR Part 331. A: INITIAL PROFFERED PERMIT: You may accept or object to the http://www.usace.armv.mil/wissions/CivilWorks/RegulatoryPrograms regulations at 33 CFR Part 331. A: INITIAL PROFFERED PERMIT: You may accept or object to the http://www.usace.armv.mil/wissions/CivilWorks/RegulatoryPrograms regulations at 33 CFR Part 331. A: INITIAL PROFFERED PERMIT: You may accept or object to the final authorization. If you received a Letter of Permission (LOP), you may a Your signature on the Standard Permit or acceptance of the LOP means the waive all rights to appeal the permit, including its terms and conditions, and associated with the permit. OBJECT: If you object to the permit (Standard or LOP) because of certain that the permit be modified accordingly. You must complete Section II of the engineer. Your objections must be received by the district engineer within forfeit your right to appeal the permit in the future. Upon receipt of your letter objections and may: (a) modify the permit to address all of your concerns, objections, or (c) not modify the permit having determined that the permit sevaluating your objections, the district engineer will send you a proffered permit apprendice of the second permit of the permit second permit objections, the district engineer will send you a proffered permit objection objections. 	and Permits/appeals.aspx or Corps e permit. ument and return it to the district engineer for accept the LOP and your work is authorized. hat you accept the permit in its entirety, and d approved jurisdictional determinations terms and conditions therein, you may request is form and return the form to the district 60 days of the date of this notice, or you will ter, the district engineer will evaluate your (b) modify the permit to address some of your hould be issued as previously written. After emit for your reconsideration, as indicated in		
 B: PROFFERED PERMIT: You may accept or appeal the permit ACCEPT: If you received a Standard Permit, you may sign the permit document and return it to the district engineer for final authorization. If you received a Letter of Permission (LOP), you may accept the LOP and your work is authorized. Your signature on the Standard Permit or acceptance of the LOP means that you accept the permit in its entirety, and waive all rights to appeal the permit, including its terms and conditions, and approved jurisdictional determinations 			
APPEAL: If you choose to decline the proffered permit (Standard or LOP) because of certain terms and conditions therein, you may appeal the declined permit under the Corps of Engineers Administrative Appeal Process by completing Section II of this form and sending the form to the division engineer. This form must be received by the division engineer within 60 days of the date of this notice.			
C: PERMIT DENIAL: You may appeal the denial of a permit under the Corps of Engineers Administrative Appeal Process by completing Section II of this form and sending the form to the division engineer. This form must be received by the division engineer within 60 days of the date of this notice.			
D: APPROVED JURISDICTIONAL DETERMINATION: You may a provide new information.	ccept or appeal the approved JD or		
 ACCEPT: You do not need to notify the Corps to accept an approved JD. date of this notice, means that you accept the approved JD in its entirety, a 	Failure to notify the Corps within 60 days of the and waive all rights to appeal the approved JD.		
 APPEAL: If you disagree with the approved JD, you may appeal the approved Administrative Appeal Process by completing Section II of this form and set form must be received by the division engineer within 60 days of the date of the section of the se	oved JD under the Corps of Engineers anding the form to the division engineer. This of this notice.		
E: PRELIMINARY JURISDICTIONAL DETERMINATION: You do not need to respond to the Corps regarding the preliminary JD. The Preliminary JD is not appealable. If you wish, you may request an approved JD (which may be appealed), by contacting the Corps district for further instruction. Also you may provide new information for further consideration by the Corps to reevaluate the JD.			

	NS TO AN INITIAL PROFERED PERMIT
REASONS FOR APPEAL OR OBJECTIONS: (Describe to an initial proffered permit in clear concise statements. You where your reasons or objections are addressed in the admin	your reasons for appealing the decision or your object u may attach additional information to this form to clarif nistrative record.)
ADDITIONAL INFORMATION: The appeal is limited to a revi the record of the appeal conference or meeting, and any sup is needed to clarify the administrative record. Neither the ap to the record. However, you may provide additional informat	iew of the administrative record, the Corps memoranduplemental information that the review officer has deter pellant nor the Corps may add new information or anal tion to clarify the location of information that is already i
ADDITIONAL INFORMATION: The appeal is limited to a revi the record of the appeal conference or meeting, and any sup is needed to clarify the administrative record. Neither the ap to the record. However, you may provide additional informat administrative record.	iew of the administrative record, the Corps memorandupplemental information that the review officer has deterpellant nor the Corps may add new information or analtion to clarify the location of information that is already iteration.
ADDITIONAL INFORMATION: The appeal is limited to a revi the record of the appeal conference or meeting, and any sup is needed to clarify the administrative record. Neither the ap to the record. However, you may provide additional informat administrative record. POINT OF CONTACT FOR QUESTIONS OR INFORM If you have questions regarding this decision and/or the appeal process you may contact: Chief, Surveillance & Enforcement Section U.S. Army Corps of Engineers 7400 Leake Avenue New Orleans, LA 70118 504-862-1288	iew of the administrative record, the Corps memorand oplemental information that the review officer has deter opellant nor the Corps may add new information or anal tion to clarify the location of information that is already IATION: If you only have questions regarding the appeal process yo also contact: Administrative Appeals Review Officer Mississippi Valley Division P.O. Box 80 (1400 Walnut Street) Vicksburg, MS 39181-0080 601-634-5820 FAX: 601-634-5816

MVD version revised April 15, 2016





Jamestown Business Park Wetland Delineation

WETLAND DELINEATION Jamestown Inc ~258.5 acres Hammond, La



Prepared and Transmitted by:

HYDRIK 2323 Highway 190 East Suite 2 Hammond, LA 70401 985 429 0333 www.hydrik.com HF 1674b

Keep in mind that the following report is a wetland delineation/jurisdictional delineation request prepared by Hydrik Wetlands Consultants and must be presented the US Army Corps of Engineers for jurisdictional approval before it is legally valid in any sense. Determination of wetlands, their extents, and boundaries is the final decision of the United States Army Corps of Engineers under the authority of the Clean Water Act.

Tangipahoa Parish S21&28, T6S, R8E

> In an effort to reduce paper consumption, all reports are transmitted to the client digitally. A hard copy will be provided upon request only.



TABLE OF CONTENTS

1.0	Formal Jurisdictional Delineation Request	1
2.0	Definitions, General Procedures, and Site Summary	2-4
	2.1 How Wetlands are Defined and Identified	2
	2.2 Characteristics of Wetlands	2-3
	2.3 Section 404 of the Clean Water Act and the "1987 Manual"	3
	2.4 Site Summary and Project Procedures	4
3.0	Field Findings Summary and Conclusion	5-6
	3.1 Vegetative Findings	5
	3.2 Soil Findings	6
	3.3 Hydrological Findings	6
	3.4 Conclusion	7

3.4 Conclusion	
	FIGURES
Vicinity N 24k USGS	lap S Topographic Map

2 3 **USDA Soil Survey**

1

- Digital Elevation Model with 2' Contours. 4
- 5 Wetland Delineation RGB Overlay
- Wetland Delineation Raw 6

APPENDICES

- Α **Documented Sample and Site Photos**
- В **Documented Sample Data Sheets (latest ARS)**



1.0 Formal Request for a Corps Approved Wetland Delineation (JD/PJD)

LMN Form 1263(a)

Proponent: CEMVN-OD-SS

Revised: May 97

To:

Chief, Surveillance and Enforcement Department of the Army New Orleans District COE 7400 Leake Ave New Orleans, La 70118

I am requesting a preliminary wetland determination (PJD) on property described as: ~258.5 acres on and south of La.Hwy 190 and on and west of Coburn Rd in Hammond, La.

Parish: Tangipahoa		Acreage: ~258.5		
Section: 21 and	d 28	Township:	6s	Range: 8e
Site Center:	LAT: 3	0.503092°		LON: -90.402736°

The subject property is:

⊠Partially forested/silviculture, partially pasture/ag, and partially residential.

 \boxtimes I have attached a survey/plat map of the property and a vicinity map identifying the precise property location.

Description of proposed activity: (check as many as applicable)

Future use is residential

*Signature: ____

Date: _____

*THIS SIGNATURE AUTHORIZES A PHYSICAL INSPECTION OF THE SITE.

Mr. Robert Maurin c/o Michael Henry, Lead PM Hydrik Wetlands 2323 Hwy 190 East Suite 2, Hammond, Ia 985 429 0333 ext 1 mike@hydrik.com

Please schedule any site visits with Michael Henry (Consultant/Agent) prior to visiting the site



2.0 Definitions, General Procedures, and Site Summary

2.1 How Wetlands are Defined and Identified

The definition of wetlands as used by the U.S. Army Corps of Engineers (the Corps) and the U.S. Environmental Protection Agency (EPA) since the 1970s for regulatory purposes is as follows:

"Wetlands are areas that are inundated or saturated by surface or ground water at a frequency and duration sufficient to support, and that under normal circumstances do support, a prevalence of vegetation typically adapted for life in saturated soil conditions. Wetlands generally include swamps, marshes, bogs, and similar areas."

In more common language, wetlands are areas where the frequent and prolonged presence of water at or near the soil surface drives the natural system meaning the kind of soils that form, the plants that grow, and the fish and/or wildlife communities that use the habitat.

Contrary to popular belief, areas that may be classified as wetlands under authority of the Corps do not have to have standing water present. In addition, wetlands that may have standing water may simply not be jurisdictional due to other factors. There are "biological" wetlands, and there are "jurisdictional" wetlands. For sake of defining a wetland for purposes of the Clean Water Act, we are looking for jurisdictional wetlands. Jurisdictional wetlands are indeed biologically wetland habitats but they also meet other requirements that cause them to be taken under Corps jurisdiction.

2.2 Characteristics of Wetlands

When the upper part of the soil is saturated with water at growing season temperatures, soil organisms consume the oxygen in the soil and cause conditions unsuitable for most plants. Such conditions also cause the development of soil characteristics (such as color and texture) of so-called "hydric soils." The plants that can grow in such conditions, such as marsh grasses, are called "hydrophytes". Together, hydric soils and hydrophytes give clues that a wetland area is present.

The presence of water by ponding, flooding, or soil saturation is not always a good indicator of wetlands. Except for wetlands flooded by ocean tides, the amount of water present in wetlands fluctuates as a result of rainfall patterns, snow melt, dry seasons and longer droughts.

Some of the most well-known wetlands, such as the everglades and Mississippi bottomland hardwood swamps, are often dry. In contrast, many

2



upland areas are very wet during and shortly after wet weather. Such natural fluctuations must be considered when identifying areas subject to federal jurisdiction. Similarly, the effects of upstream dams, drainage ditches, dikes, irrigation, and other modifications must also be considered.

2.3 Section 404 of the Clean Water Act and the USACE "1987 Wetlands Delineation Manual"

Section 404 of the Clean Water Act requires a permit from the Corps and authorized State agencies for the discharge of dredge or fill material into wetlands and waters of the United States. Guidelines for performing a wetland delineation in order to define these jurisdictional wetlands under the Clean Water Act are outlined in the "1987 Corps of Engineers Wetland Delineation Manual" and succeeding Regulatory Guidance Letters, including the "2008 Atlantic Regional Supplement".

The EPA and the Corps use the "1987 Manual" to define wetlands for the Clean Water Act's Section 404 program. The "1987 Manual" organizes environmental characteristics of a potential wetland into three categories: hydric soils, hydrophytic vegetation, and wetland hydrology. Hydrik is required to use the "1987 Manual" and any supplements to perform a wetland delineation.

To be considered a "wetland" by definition the area must sustain wetland/hydrophytic vegetation, hydric (wetland) soils, and must fulfill the guidelines defined in the "1987 manual" to have wetland hydrology. All three parameters were used in developing the technical guideline for wetlands and all approaches for applying the technical guideline embody the multi-parameter concept.

The actual determination and definition of these criteria can be complex. For detailed information on requirements as defined by the "1987 Manual" and the 2008 Atlantic Regional Supplement to perform a jurisdictional wetland delineation as well as detailed definitions of all three requirements mentioned above, you are welcomed to download a free copy of the "1987 Manual" and the 2008 Atlantic Regional Supplement from our website at *www.hydrik.com/resources.*

1987 Manual: http://www.hydrik.com/downloads/Hydrik_Delineation87.pdf 2008 Atlantic Supplement: http://el.erdc.usace.army.mil/elpubs/pdf/trel08-30.pdf



2.4 Site Summary and Project Procedures

The site under review is described as approximately 258.5 acres within Sections 21 and 28, Township 6 South, Range 8 East, on and south of LA Hwy 190 and on and east of Coburn Rd. near Hammond, LA within Tangipahoa Parish **(see Figures)**. The north boundary of the 258.5 acre composite is bordered by Louisiana Highway 190, to the east by Coburn Road and residential homes, to the south by timberland and residences, and to the west by a branch of Selser's Creek. The site can be easiest accessed via Gahn Lane off of Hwy 190 just east of the Hammond Regional Airport. The 258.5 acre delineation is a composite of three parcels herein referred to as "tract 1, tract 2, and tract 3". The boundaries of each tract are indicated on Figures 3-6.

The site is primarily forested (~75%) with habitats of pine, mixed pinehardwood, and hardwood. The remaining areas (~25%) of the site consist of equestrian stables with riding fields, and residential homes. The current use of the majority of the site appears to be silviculture. An approximately 73 acre portion of "tract 2" had a previous US Army Corps of Engineers (Corps) jurisdictional determination (JD) issued on it in 2006. The JD has since expired but the lines were re-verified and are still accurate with the exception of a potentially isolated pocket on the eastern extent **(see Figures 5 and 6)**. An approved JD was also issued for the southern most "tract 3" at an unidentified date prior to 2010. Our findings indicate that the previously issued JD does not represent current conditions and the tract was redelineated and flagged according to current conditions.

After extensive in house research of NRCS soils data, digital elevation models and varying years of high resolution RGB and infrared aerial imagery, field investigations were performed October-November 2016 to determine the extent of wetlands and Waters of the U.S.(WOTUS) on the site. Soil data points were taken throughout the site and representative findings from soils, vegetation, and hydrology were documented. Wetland interfaces were flagged and mapped using a WAAS GPS enabled Panasonic Toughbook GPS unit. Data was post processed to the Hammond, La base station prior to generation of final map vectors.



3.0 Field Findings Summary and Conclusion

3.1 Vegetative Findings

Dominant vegetation accounting for 20% or more of the species was observed at the tree layer (T), sapling and shrub layer (S/S), herbaceous layer (H), and woody vine layer (WV). Species were documented and their wetland indicator status noted.

The dominant habitat is a mature, mixed pine-hardwood forest. This community is located throughout the upland/non-wetland areas as well as in several of the wetland areas. The secondary habitats are the primary pine and the hardwood forests. The pine areas are located primarily in the central and southernmost upland areas while the hardwood areas are located in the lower wetland swale areas that meander north to south in the central and southern portions of the site. The pasture/ag areas are in the northwest section and the residential lots are in the open non-wet areas adjacent to the agricultural pasture.

Upland/non-wetlands comprise the majority of acreage. These forested upland areas contain a dominant presence of loblolly pine, water oak, sweet gum, black cherry, American holly, Chinese tallow, and black gum in the tree layer, the aforementioned species as well as yaupon, American beauty berry, Christmas coral berry, and Chinese privet in the sapling/shrub layer, Japanese climbing fern, Japanese honeysuckle, yellow jessamine, round leaf greenbriar, poison ivy, and blackberry in the herbaceous layer, and muscadine grape, cat greenbrier, Virginia creeper and poison ivy in the liana layer.

The larger wetland network in the southwestern area is a mixture of forested and open sapling/shrubs. These forested wetland areas contain a dominant presence of sweet bay, black gum, and red maple in the tree layer, the aforementioned species as well as wax myrtle and loblolly pine in the sapling/shrub layer, and carex sp, common rush, pipewort, giant plume grass and bushy broomsedge in the herbaceous layer

The wet bottomland hardwood areas that meander north to south along the border of a small slough leading to Selser's Creek consist of laural oak, sweet bay, black gum, red maple, and a few scattered loblolly pines in the tree layer, the aforementioned species as well as white titi and wax myrtle in the sapling/shrub layer, and netted chain fern and cinnamon fern in the herbaceous layer.



3.2 Soil Findings

Typically, soil observations are performed using a sharpshooter at a depth of 12-16 inches, and soil color is observed using the required Munsell ® soil color chart. After sampling, we attempted to confirm the accuracy of the NRCS Soil Survey data.

Per the USDA Soil survey, the site is mapped as having a combination of the hydric Guyton (Go & Gy) series soils as well as the non hydric Cahaba (Ch), and Abita (Aa) series soils.

Our field investigation concluded that the site does indeed contain all series types although a non hydric element was evidently intermingled throughout the areas of the tract mapped as primarily hydric by the USDA. As typical of USDA NRCS soil data, soils as mapped were present on site but not inclusively or accurately delineated per NRCS map data. (See Figure 3)

3.3 Hydrological Findings

As indicated in the "87 manual", when evaluating hydrology, areas must be seasonally inundated or saturated for a consecutive 12.5 percent of the growing season.

Hydrology was evaluated based on a combination of properties exhibited by the soil at various levels such as oxidized rhizospheres (root channels), the FAC-Neutral test, crayfish burrows, sparsely vegetated concave surfaces and evidence of soil inundation or saturation within 12 inches of the surface for extended periods during the growing season.

Vegetative community and density changes due to hydrological variations were the key factors in delineating the wetland/upland interface in the field. The hydrology of the site is characterized primarily by surface/sheet flow drainage either offsite or into onsite laterals. The eastern portion's surface drainage sheet flows into the wetland swale that meanders north/south terminating at Selser's creek to the south. The surface drainage from the central and western portions sheet flows west and southwest off the site. A branch of Selser's Creek borders the west boundary of "tract 1" and a small lateral meandering east from the Selser's Creek branch intersects two portions of the northern extents of "tract 1". This lateral appears to facilitate drainage to this dominantly upland area. Several washouts were noted along the east side of the Selser's Creek branch (west boundary of "tract 1") that appear to also facilitate sheet flow drainage in the upland forest comprising the majority of the southwestern quadrant of "tract 1". The Selser's Creek branch turns west near the intersection of "tracts 1 and 2" and does not appear to provide drainage to "tracts 2 and 3"

Although not fully inclusive of all minor elevation variances, please see **Figure 4** for general site contour details.



3.4 Conclusion

Based upon our findings, it is the professional opinion of our office that the 258.5 acre subject tract contains ~32.99 acres of Section 404 jurisdictional wetlands, 1.3 acres of potentially isolated wetlands, and 915 linear feet of mapped drains/404 WOTUS (Selser's Creek branch and adjacent laterals) The extent and boundaries of the mapped wetlands and "other waters" are indicated on Figure 5 and 6.

Please feel free to contact me with any additional questions you may have.

Michael Henry, Senior PM

Hydrik Wetlands - GIS - Flood Control 2323 Hwy 190 East Suite 2 Hammond, LA 70401 985 429 0333 ext1 866 666 8975 tf 985 634 5223 c mike@hydrik.com



Figures 1-6















Appendix A- DOCUMENTED SAMPLE AND SITE PHOTOS

2323 Hwy 190 EAST SUITE 2 HAMMOND, LA 70401 985 429 0333






























































































Appendix B- DOCUMENTED SAMPLE DATA SHEETS (LATEST ARS)

Project/Site: Coburn Lakes Subdivision	City/County: Tang	jipahoa	Sampling Date:	20-Oct-16	
Applicant/Owner: Robert Maurin	State	e: LA Samplii	ng Point: 01		
Investigator(s): Hydrik-Kelly Turk	Section, Township	p, Range: S 21	T6S R8F	E	
Landform (hillslope, terrace, etc.): Flat	Local relief (concav	ve, convex, none): none	Slope: 0	.0 % / 0.0 °	
Subregion (LRR or MLRA): MLRA 133A in LRR P Lat.:	30 511568	Long.: 90 40177	 73 Datu	um: WGS 84	
Soil Man Unit Name: (Aa) Abita silt loam, 0-2% slopes		0 <u></u>	assification: None		
Are climatic/hydrologic conditions on the site typical for this time of ye	yes 🖲	No (If no expla	ain in Remarks)		
Are Vegetation Soil or Hydrology significant	tly disturbed?	Are "Normal Circumstanc	es" present? Yes	No O	
	una klassa tia 2				
SUMMARY OF FINDINGS - Attach site map showing sa	ampling point lo	cations, transects, i	mportant features,	etc.	
Hydric Soil Present?	Is the Sam	ipled Area			
Wetland Hydrology Present?	within a W	/etland? Yes \cup No	\bullet		
	I				
Plot located in a non wet, mixed pine/hardwood area.					
HYDROLOGY					
Wetland Hydrology Indicators:		Secondary Ir	ndicators (minimum of 2 req	uired)	
Primary Indicators (minimum of one required; check all that apply)		Surface S	Soil Cracks (B6)		
Aquatic Fauna (B	13)	Sparsely	Vegetated Concave Surface	(B8)	
High Water Table (A2)	5) (LRR U)	Drainage Patterns (B10)			
Saturation (A3)	Odor (C1)				
Water Marks (B1) Oxidized Rhizospi	neres along Living Roots	s (C3) Dry Seas	on Water Table (C2)		
Sediment Deposits (B2) Presence of Redu	iced from (C4)	Crayfish	Burrows (C8)	(00)	
Algal Mat or Crust (B4)	e (C7)		n visible on Aerial Imagery	(09)	
Iron Deposits (B5)	Remarks)	Shallow /	Aquitard (D3)		
Inundation Visible on Aerial Imagery (B7)	Kemarksy	FAC-Neu	itral Test (D5)		
Water-Stained Leaves (B9)		Sphagnu	im moss (D8) (LRR T, U)		
Field Observations:					
Surface Water Present? Yes O No O Depth (inches):					
Water Table Present? Yes O No O Depth (inches):					
Saturation Present? Ves No Depth (inches)	v	Netland Hydrology Preser	nt? Yes 🔾 No 🖲	<i>·</i>)	
(includes capillary fringe) res a no a population of the boom (includes).		ions) if available:			
Describe Recorded Data (stream gauge, monitoring weil, aenar prot	.os, previous inspecti	ions), il avaliable.			
Remarks:					

VEGETATION (Five/Four Strata) - Use scientific names of plants.

		D	ominant		Sampling Point: 01
	Absolute	3 =R	el.Strat.	Indicator	Dominance Test worksheet:
_Tree Stratum (Plot size: <u>30</u>)	% Cover	r	Cover	Status	Number of Dominant Species
1. Quercus nigra	85	✓	77.3%	FAC	That are OBL, FACW, or FAC: <u>7</u> (A)
2. Pinus taeda	15		13.6%	FAC	
3. Magnolia grandiflora	10		9.1%	FAC	Species Across All Strata: 7 (B)
4	0		0.0%		
5	0		0.0%		Percent of dominant Species
6	0		0.0%		That Are OBL, FACW, or FAC:(A/B)
7	0		0.0%		Prevalence Index worksheet:
8	0		0.0%		Total % Cover of: Multiply by:
50% of Total Cover: 55 20% of Total Cover: 22	110	= T(otal Cove	-	OBL species 0 x 1 = 0
Sapling or Sapling/Shrub Stratum (Plot size: 30)				FACW species $0 \times 2 = 0$
1 llex vomitoria	/ 60	\checkmark	70.6%	FAC	FAC species $280 \times 3 = 840$
2 Viburnum dentatum	15	\square	17.6%	FAC	$\mathbf{FACII} \mathbf{specilies} 0 \mathbf{x} \mathbf{A} = 0$
3	10	\square	11.8%		
Δ	0		0.0%		$\begin{array}{c} \text{operator} \\ \ operator \\ \text{operator} \\ \ operator} \\ operator$
5			0.0%		(100 Column lotals: 280 (A) 840 (B)
6			0.0%		Prevalence Index = B/A = <u>3.000</u>
7			0.0%		Hydrophytic Vegetation Indicators:
8			0.0%		
Elle of Total Course 42.5 200/ of Tatal Course 42.5			atal Carr		│
50% of lotal cover: <u>42.5</u> 20% of lotal cover: <u>17</u>	85	= 10	otal Covel	7	✓ 2 - Dominance Test is > 50%
_Shrub Stratum (Plot size:)		_			✓ 3 - Prevalence Index is \leq 3.0 ¹
1. Ardisia crenata	15		100.0%	FAC	Problematic Hydrophytic Vegetation ¹ (Explain)
2	0		0.0%		
3	0		0.0%	. <u></u>	¹ Indicators of hydric soil and wetland hydrology must
4	0		0.0%		be present, unless disturbed of problematic.
5	0		0.0%		Definition of Vegetation Strata:
6	0		0.0%		Tree - Woody plants, excluding woody vines,
50% of Total Cover: 20% of Total Cover:3	15	= T(otal Cove	r	approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast beight (DBH)
Herb Stratum (Plot size: 30)					
1 Rubus arvensis	15		12 9%	FΔC	Sapling - Woody plants, excluding woody vines,
2 Smilax rotundifolia	<u> </u>		42.770	FAC	approximately 20 ft (6 m) or more in height and less
3 Toxicodendron radicans	5		14.3%	FAC	
Δ			0.0%	1110	Sapling/Shrub - Woody plants, excluding vines, less
5			0.0%		than 3 in. DBH and greater than 3.28 ft (1m) tall.
9			0.0%		
7			0.0%		Shrub - Woody plants, excluding woody vines,
8			0.0%		
9			0.0%		Herb - All herbaceous (non-woody) plants, including
10			0.0%		herbaceous vines, regardless of size, and woody
11			0.0%		3 ft (1 m) in height.
12	— <u> </u>		0.0%		
50% of Total Cover: 17.5 20% of Total Cover: 7		ш _т	otal Cove		Woody vine - All woody vines, regardless of height.
		- 10			
Woody Vine Stratum (Plot size: 30)					
1. Vitis rotundifolia	15		33.3%	FAC	
2. Toxicodendron radicans	5		11.1%	FAC	
3. <u>Gelsemium sempervirens</u>	25		55.6%	FAC	
4	0		0.0%		Hudrophytic
5	0		0.0%		Vegetation
50% of Total Cover: 22.5 20% of Total Cover: 9	45	= T(otal Cove	-	Present? Yes $ullet$ No $igcup$
Remarks: (If observed, list morphological adaptations below)					1
nemaiks. (II observed, list morphological duaptations below).					
*Indicator suffix = National status or professional decision assigned because F	Regional status	s not	defined by F	WS.	

US Army Corps of Engineers

SOIL

Profile Desc	ription: (Desc	ribe to th	ne depth i	needed to document	the indica	tor or con	firm the a	absence of indicators	.)
Depth		Matrix		Re	dox Featur	es			
(inches)	Color (m	noist)	%	Color (moist)	%		Loc ²	Texture	Remarks
0-4	10YR	4/2						Silt Loam	
4-16	10YR	6/2						Silty Loam	
									,
									·
	. <u> </u>								
¹ Type: C=Con	centration. D=	Depletion.	RM=Redu	ced Matrix, CS=Covere	ed or Coated	Sand Grair	ns ² Locat	tion: PL=Pore Lining. M	I=Matrix
Hydric Soil	Indicators:							Indicators for Pro	oblematic Hydric Soils ³ :
Histosol ((A1)			Polyvalue Bel	ow Surface	(S8) (LRR S	, T, U)	1 cm Muck (A9) (I RR O)
Histic Epi	ipedon (A2)			Thin Dark Sur	face (S9) (L	RR S, T, U)		2 cm Muck (A1	(0) (I RR S)
Black His	tic (A3)			Loamy Mucky	Mineral (F1) (LRR 0)			(EIRCO)
Hydroger	n Sulfide (A4)			Loamy Gleyed	Matrix (F2))			$\frac{1}{10} \left(\frac{1}{10} \right) \left(\frac{1}{10$
Stratified	Layers (A5)			Depleted Mat	rix (F3)				(1, 2) ($1, 2)$ (
Organic E	Bodies (A6) (LR	R P, T, U)		Redox Dark S	urface (F6)			Red Parent Ma	torial (TE2)
5 cm Muc	cky Mineral (A7) (LRR P,	T, U)	Depleted Dark	< Surface (F	7))ark Surface (TE12)
Muck Pre	esence (A8) (LR	R U)		Redox Depres	sions (F8)				in Domarks)
🗌 1 cm Muc	ck (A9) (LRR P,	T)		 Marl (F10) (LF	RRU)				
Depleted	Below Dark Su	rface (A11)	Depleted Och	ric (F11) (M	LRA 151)			
Thick Dar	rk Surface (A12)		Iron-Mangane	ese Masses	(F12) (LRR	О, Р, Т)		
Coast Pra	airie Redox (A16	6) (MLRA	150A)	Umbric Surfac	e (F13) (LR	R P, T, U)			
Sandy Mu	uck Mineral (S1)) (LRR O,	S)	Delta Ochric (F17) (MLRA	151)		<u>,</u>	
Sandy Gle	eyed Matrix (S4	+)		Reduced Vert	ic (F18) (ML	, RA 150A, 1	50B)	³ Indicato	rs of hydrophytic vegetation and
Sandy Re	edox (S5)			Piedmont Floo	odplain Soils	(F19) (MLF	RA 149A)	unle	ess disturbed or problematic.
Stripped	Matrix (S6)			Anomalous Br	ight Loamy	Soils (F20)	(MLRA 149	9A, 153C, 153D)	
Dark Surf	face (S7) (LRR	P, S, T, U)			0 5				
Restrictive L	ayer (if obser	ved):							
Type:	,	•							
Depth (inc	ches):							Hydric Soil Present	t? Yes 🔿 No 🖲
Remarks									
Remarks.									

Project/Site: Coburn Lakes Subdivision	City/County: Tangipahoa Sampling Date: 20-Oct-16
Applicant/Owner: Robert Maurin	State: LA Sampling Point: 02
Investigator(s): Hydrik-Kelly Turk	Section, Township, Range: S 21 T 6 S R 8 E
Landform (hillslope, terrace, etc.): Flat	Local relief (concave, convex, none): none Slope: 0.0 % / 0.0 °
Subregion (LRR or MLRA): MLRA 133A in LRR P Lat.:	30.511059 Long.: -90.402672 Datum: WGS84
Soil Map Unit Name:	NWI classification: None
Are climatic/hydrologic conditions on the site typical for this time of ye	ear? Yes \bigcirc No \bigcirc (If no, explain in Remarks.)
Are Vegetation Soil or Hydrology significant	at visturbed? Are "Normal Circumstances" present? Yes • No
Are Vegetation Soil or Hydrology paturally	
SUMMARY OF FINDINGS - Attach site map showing sa	ampling point locations, transects, important features, etc.
Hydrophytic Vegetation Present? Yes No	In the Complet Area
Hydric Soil Present? Yes No	
Wetland Hydrology Present? Yes	within a Wetland?
Remarks:	
Plot taken in a mixed pine/hardwood wetland habitat.	
HYDROLOGY	
Wetland Hydrology Indicators:	Secondary Indicators (minimum of 2 required)
Primary Indicators (minimum of one required; check all that apply)	Surface Soil Cracks (B6)
Surface Water (A1)	313) Sparsely Vegetated Concave Surface (B8)
High Water Table (A2)	15) (LRR U) Drainage Patterns (B10)
L Saturation (A3)	Odor (C1) Moss Trim Lines (B16)
Water Marks (B1) Oxidized Rhizosp	heres along Living Roots (C3) Dry Season Water Table (C2)
Sediment Deposits (B2)	uced Iron (C4) Crayfish Burrows (C8)
Drift Deposits (B3) Recent Iron Redu	Juction in Tilled Solls (C6) Saturation Visible on Aerial Imagery (C9)
Iron Denosits (B5)	Sector C7 Geomorphic Position (D2)
Inundation Visible on Aerial Imagery (B7)	FAC-Neutral Test (D5)
✓ Water-Stained Leaves (B9)	Sphagnum moss (D8) (LRR T. U)
Field Observations:	
Surface Water Present? Yes O No O Depth (inches):	:
Water Table Present? Yes No	
Saturation Present?	Wetland Hydrology Present? Yes 💿 No 🔾
(includes capillary fringe) Yes No Depth (inches):	
Describe Recorded Data (stream gauge, monitoring well, aerial phot	tos, previous inspections), if available:
Remarks:	

		Sampling Point: 02					
Tree Stratum (Plot size: <u>30</u>)	Absolute <u>% Cov</u> er	R	el.Strat. Cover	Indicator Status	Dominance Test worksheet:		
Pinus taeda	65	\checkmark	65.0%	FAC	Number of Dominant Species That are OBL_EACW_or_EAC·9 (A)		
Nyssa sylvatica	25	\checkmark	25.0%	FAC			
Triadica sebifera	10		10.0%	FAC	Total Number of Dominant Species Across All Strata: 9 (B)		
	0		0.0%				
	0		0.0%		Percent of dominant Species		
	0		0.0%		That Are OBL, FACW, or FAC:(A/B)		
	0		0.0%		Prevalence Index worksheet:		
	0		0.0%		Total % Cover of: Multiply by:		
50% of Total Cover: 50 20% of Total Cover: 20	100	= To	otal Cover		OBL species x 1 =		
Sapling or Sapling/Shrub Stratum (Plot size: 30)				FACW species 15 x 2 =30		
Nyssa sylvatica	25	✓	31.3%	FAC	FAC species x 3 =585		
Viburnum dentatum	35		43.8%	FAC	FACU species x 4 =		
Quercus nigra	20		25.0%	FAC	UPL species $0 \times 5 = 0$		
•	0		0.0%		Column Totals: 230 (A) 635 (B)		
•	0		0.0%				
•	0		0.0%		Prevalence Index = B/A = <u>2.761</u>		
•	0		0.0%		Hydrophytic Vegetation Indicators:		
	0		0.0%		1 - Rapid Test for Hydrophytic Vegetation		
50% of Total Cover: 40 20% of Total Cover: 16	80	= To	otal Cover		\checkmark 2 - Dominance Test is > 50%		
Shrub Stratum (Plot size:)					\checkmark 3 - Prevalence Index is <3.0 ¹		
······································	0	\square	0.0%		\square Problematic Hydrophytic Vegetation ¹ (Explain)		
			0.0%				
· .			0.0%		¹ Indicators of hydric soil and wetland hydrology must		
•	0		0.0%		be present, unless disturbed or problematic.		
	0		0.0%		Definition of Vegetation Strata:		
·	0		0.0%		Tree - Woody plants, excluding woody vines,		
50% of Total Cover: 0 20% of Total Cover: 0	0	= To	otal Cover		approximately 20 ft (6 m) or more in height and 3 in.		
Horb Stratum (Plot size: 30)					(7.6 cm) of larger in diameter at breast height (DBH).		
					Sapling - Woody plants, excluding woody vines,		
1 Campsis radicans	10		22.20/	EAC	 approximately 20 ft (6 m) or more in height and less 		
1. Campsis radicans	1015		22.2%	FAC	approximately 20 ft (6 m) or more in height and less		
1 <u>Campsis radicans</u> 2. Smilax laurifolia 3. Woodwardia areolata	<u> </u>		22.2% 33.3%	FAC FACW	approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH.		
1. Campsis radicans 2. Smilax laurifolia 3. Woodwardia areolata 4. Carex glaucescens	<u> </u>		22.2% 33.3% 33.3% 11.1%	FAC FACW OBL	approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH.		
1 . Campsis radicans 2 . Smilax laurifolia 3 . Woodwardia areolata 4 . Carex glaucescens 5	<u>10</u> <u>15</u> <u>5</u> 0		22.2% 33.3% 33.3% 11.1%	FAC FACW OBL OBL	approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH. Sapling/Shrub - Woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1m) tall.		
1 <u>Campsis radicans</u> 2 Smilax laurifolia 3 Woodwardia areolata 4 Carex glaucescens 5 6	$ \begin{array}{c} 10 \\ 15 \\ 15 \\ 5 \\ 0 \\ 0 \end{array} $		22.2% 33.3% 33.3% 11.1% 0.0%	FAC FACW OBL OBL	approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH. Sapling/Shrub - Woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1m) tall.		
1. Campsis radicans 2. Smilax laurifolia 3. Woodwardia areolata 4. Carex glaucescens 5	$ \begin{array}{c} 10 \\ 15 \\ 15 \\ 5 \\ 0 \\ 0 \\ 0 \\ $		22.2% 33.3% 33.3% 11.1% 0.0% 0.0%	FAC FACW OBL OBL	approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH. Sapling/Shrub - Woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1m) tall. Shrub - Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height		
1 <u>Campsis radicans</u> 2 <u>Smilax laurifolia</u> 3 <u>Woodwardia areolata</u> 4 <u>Carex glaucescens</u> 5 <u>6</u> 7 <u>8</u>	$ \begin{array}{c} 10 \\ 15 \\ 15 \\ 5 \\ 0 \\ $		22.2% 33.3% 33.3% 11.1% 0.0% 0.0% 0.0%	FAC FACW OBL OBL	approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH. Sapling/Shrub - Woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1m) tall. Shrub - Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height.		
1. Campsis radicans 2. Smilax laurifolia 3. Woodwardia areolata 4. Carex glaucescens 5. 6. 7. 8. 9	$ \begin{array}{c} 10 \\ 15 \\ 5 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0$		22.2% 33.3% 33.3% 11.1% 0.0% 0.0% 0.0% 0.0%	FAC FACW OBL OBL	approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH. Sapling/Shrub - Woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1m) tall. Shrub - Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height. Herb - All herbaceous (non-woody) plants, including		
1. Campsis radicans 2. Smilax laurifolia 3. Woodwardia areolata 4. Carex glaucescens 5	$ \begin{array}{c} 10 \\ 15 \\ 5 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0$		22.2% 33.3% 33.3% 11.1% 0.0% 0.0% 0.0% 0.0% 0.0%	FAC FACW OBL OBL	approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH. Sapling/Shrub - Woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1m) tall. Shrub - Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height. Herb - All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody		
1. Campsis radicans 2. Smilax laurifolia 3. Woodwardla areolata 4. Carex glaucescens 5. 6. 7. 8. 9. 0. 1	$ \begin{array}{c} 10 \\ 15 \\ 5 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0$		22.2% 33.3% 33.3% 11.1% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0%	FAC FACW OBL OBL	approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH. Sapling/Shrub - Woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1m) tall. Shrub - Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height. Herb - All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 3 ft (1 m) in height.		
1. Campsis radicans 2. Smilax laurifolia 3. Woodwardia areolata 4. Carex glaucescens 5. 6. 7. 8. 9. 0. 1. 2	$ \begin{array}{c} 10 \\ 15 \\ 5 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0$		22.2% 33.3% 33.3% 11.1% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.	FAC FACW OBL OBL	 approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH. Sapling/Shrub - Woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1m) tall. Shrub - Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height. Herb - All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 3 ft (1 m) in height. 		
1. Campsis radicans 2. Smllax laurifolla 3. Woodwardia areolata 4. Carex glaucescens 5. 6. 7. 8. 9. 0. 1. 2. 50% of Total Cover: 22.5 20% of Total Cover: 9.	$ \begin{array}{c} 10 \\ 15 \\ 15 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 45 \end{array} $		22.2% 33.3% 33.3% 11.1% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.	FAC FACW OBL OBL OBL	 approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH. Sapling/Shrub - Woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1m) tall. Shrub - Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height. Herb - All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 3 ft (1 m) in height. Woody vine - All woody vines, regardless of height. 		
1. Campsis radicans 2. Smilax laurifolia 3. Woodwardia areolata 4. Carex glaucescens 5. 6. 7. 8. 9. 0. 1. 2. 50% of Total Cover: 22.5 20% of Total Cover: 9	$ \begin{array}{c} 10\\ 15\\ 5\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 45\\ \end{array} $		22.2% 33.3% 33.3% 11.1% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.	FAC FACW OBL OBL	 approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH. Sapling/Shrub - Woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1m) tall. Shrub - Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height. Herb - All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 3 ft (1 m) in height. Woody vine - All woody vines, regardless of height. 		
1. Campsis radicans 2. Smilax laurifolia 3. Woodwardia areolata 4. Carex glaucescens 5. 6. 7. 8. 9. 0. 1. 2. 50% of Total Cover: 22.5 20% of Total Cover: 9 Woody Vine Stratum (Plot size: 30) Smilax estundifielia	$ \begin{array}{c} 10 \\ 15 \\ 5 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 45 \\ \end{array} $		22.2% 33.3% 33.3% 11.1% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.	FAC FACW OBL OBL OBL	 approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH. Sapling/Shrub - Woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1m) tall. Shrub - Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height. Herb - All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 3 ft (1 m) in height. Woody vine - All woody vines, regardless of height. 		
1. Campsis radicans 2. Smilax laurifolia 3. Woodwardia areolata 4. Carex glaucescens 5. 6. 7. 8. 9. 0. 1. 2. 50% of Total Cover: 22.5 20% of Total Cover: 9 Woody Vine Stratum (Plot size: 30) . Smilax rotundifolia	$ \begin{array}{c} 10\\ 15\\ 5\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 45\\ 5\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\$		22.2% 33.3% 33.3% 11.1% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.	FAC FACW OBL OBL OBL FAC	 approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH. Sapling/Shrub - Woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1m) tall. Shrub - Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height. Herb - All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 3 ft (1 m) in height. Woody vine - All woody vines, regardless of height. 		
1. Campsis radicans 2. Smilax laurifolia 3. Woodwardia areolata 4. Carex glaucescens 5	$ \begin{array}{c} 10\\ 15\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 45\\ 5\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\$		22.2% 33.3% 33.3% 11.1% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.	FAC FACW OBL OBL OBL FAC	 approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH. Sapling/Shrub - Woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1m) tall. Shrub - Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height. Herb - All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 3 ft (1 m) in height. Woody vine - All woody vines, regardless of height. 		
1. Campsis radicans 2. Smilax laurifolia 3. Woodwardia areolata 4. Carex glaucescens 5. 6. 7. 8. 9. 0. 1. 2. 50% of Total Cover: 22.5 20% of Total Cover: 9 Woody Vine Stratum (Plot size: 30) . Smilax rotundifolia	$ \begin{array}{c} 10\\ 15\\ 5\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\$		22.2% 33.3% 33.3% 11.1% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.	FAC OBL OBL OBL FAC	 approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH. Sapling/Shrub - Woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1m) tall. Shrub - Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height. Herb - All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 3 ft (1 m) in height. Woody vine - All woody vines, regardless of height. 		
1. Campsis radicans 2. Smilax laurifolia 3. Woodwardia areolata 4. Carex glaucescens 5. 6. 7. 8. 9. 0. 1. 2. 50% of Total Cover: 22.5 20% of Total Cover: 9 Woody Vine Stratum (Plot size: 30) . Smilax rotundifolia	$ \begin{array}{c} 10\\ 15\\ 5\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\$		22.2% 33.3% 33.3% 11.1% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.	FAC FACW OBL OBL OBL FAC	 approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH. Sapling/Shrub - Woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1m) tall. Shrub - Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height. Herb - All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 3 ft (1 m) in height. Woody vine - All woody vines, regardless of height. 		
1. Campsis radicans 2. Smilax laurifolia 3. Woodwardia areolata 4. Carex glaucescens 5. 6. 7. 8. 9. 0. 1. 2. 50% of Total Cover: 22.5 20% of Total Cover: 9 Woody Vine Stratum (Plot size: 30) . . .	$ \begin{array}{c} 10\\ 15\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 45\\ 5\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\$		22.2% 33.3% 33.3% 11.1% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.	FAC OBL OBL OBL FAC	Hydrophytic Vest Yes No		

*Indicator suffix = National status or professional decision assigned because Regional status not defined by FWS.

SOIL

Depth	Color (10YR	matrix		Red	dox Featu	ires			-
0-7	10YR	moist)	%	Color (moist)	%		Loc ²	Texture	Remarks
7-16		3/1	100					Silt Loam	
	10YR	6/1	100					Silt Loam	
		·							
pe: C=Conce	entration. D	-Depletio	n. RM=Redu	ced Matrix, CS=Covere	d or Coate	ed Sand Gra	ins ² Locat	ion: PL=Pore Lining. M	=Matrix
dric Soil In	ndicators:				C C			Indicators for Pro	oblematic Hydric Soils ³ :
Histic Ening	i) don (A2)				ow Surface	(S8) (LRR)	s, I, U)	1 cm Muck (A9) (LRR O)
Black Histic	- (Δ2)				Iace (S9)	(LKK S, T, U)	2 cm Muck (A1	0) (LRR S)
	, (AS) Sulfide (AA)				wineral (F	· I) (LKR U)		Reduced Vertic	(F18) (outside MLRA 150A,B)
Stratified La	avers (A5)			Loamy Gleyed	I Matrix (F	2)		Piedmont Flood	uplain Soils (F19) (LRR P, S, T)
	dies (AS) (I	RRPTI	D)		IX (F3)	`		Anomalous Brig	ght Loamy Soils (F20) (MLRA 153B)
	v Mineral (A	17) (I RR P	ッ ヽ エ II)) 'F7)		Red Parent Mat	terial (TF2)
Muck Prese	ence (A8) (I	RR II)	, 1, 0)			F7)		Very Shallow D	ark Surface (TF12)
1 cm Muck	(A9) (I RR	рт)		Mark (E10) (LE	SIUNS (F8)			Other (Explain	in Remarks)
Depleted Be	elow Dark S	Surface (A'	11)		(E11) (I	MI DA 151)			
Thick Dark	Surface (A	12)	,			(E12) (IDD			
Coast Prairi	ie Redox (A	16) (MI RA	A 150A)				U, P, T)		
Sandy Muck	k Mineral (S	10) (IRR ()) ()		E (FIS) (L	KK P, I, U)			
Sandy Glev	ed Matrix (54)	, 0)		FI7) (IVILK	A 131) ALDA 160A		³ Indicato	rs of hydrophytic vegetation and
Sandy Dodo		54)			C (F 18) (IV	ILKA 150A,	150B)	wetlan	d hydrology must be present,
Stripped Ma	(33)				apiain Soi	IS (F19) (IVIL	KA 149A)		ess disturbed or problematic.
] Dark Surfac	ce (S7) (LRI	R P, S, T, I	U)		ight Luan	y 30115 (F20,	I (MERA 149	A, 155C, 155D)	
strictive Lay	yer (if obs	erved):							
Туре:									
Depth (inche	es):							Hydric Soil Present	? Yes 🔍 No 🔾
marks:									

Project/Site: Coburn Lakes Subdivision	City/County: Tangi	pahoa	Sampling Date:	20-Oct-16	
Applicant/Owner: _ Robert Maurin	State	LA Sampling Po	pint: 03		
Investigator(s): Hydrik-Kelly Turk	_ Section, Township	Range: S 21 T	6S R 8E		
Landform (hillslope, terrace, etc.): None	Local relief (concave	, convex, none): Concave	Slope: 4.	0%/ 2.3°	
Subregion (LRR or MLRA): MLRA 133A in LRR P Lat.:	30.509909	Long.: -90.404139	 Datu	m : WGS84	
Soil Man Linit Name: (Go) Guyton silt loam, 0-1% slopes, rarely floode	ed		ication: None		
Are climatic /bydrologic conditions on the site typical for this time of ye	yes 🖲	$\sqrt{0}$ (If no, explain in	Pemarks)		
Are Vegetation Soil or Hydrology significant	tly disturbed?	co "Normal Circumstancos" r	Yes	No O	
			inesent:		
Are Vegetation, Soil, or Hydrology naturally	problematic? (f needed, explain any answe	ers in Remarks.)		
SUMMARY OF FINDINGS - Attach site map showing sa	mpling point loc	ations, transects, impo	ortant features,	etc.	
Hydrophytic Vegetation Present? Yes $ullet$ No $igodot$	Is the Samr	led Area			
Hydric Soil Present? Yes No	is the outin				
Wetland Hydrology Present? Yes $ullet$ No $igodot$	within a We	tland?			
Remarks:					
Plot located in an isolated mixed pine/hardwood wetland area. The	wetland is located ou	tside the spoil bank of adjac	ent man-made later	al.	
HYDROLOGY					
Wetland Hydrology Indicators:		Secondary Indicat	ors (minimum of 2 requ	uired)	
Primary Indicators (minimum of one required; check all that apply)		Surface Soil Ci	racks (B6)		
Surface Water (A1)	13)	Sparsely Vege	Sparsely Vegetated Concave Surface (B8)		
High Water Table (A2)	15) (LRR U)	Drainage Patte	Drainage Patterns (B10)		
Saturation (A3)	Odor (C1)	Moss Trim Lin	Moss Trim Lines (B16)		
Water Marks (B1) State Contract Contrac	heres along Living Roots	(C3) Dry Season W	Dry Season Water Table (C2)		
Sediment Deposits (B2)	uced Iron (C4)	Crayfish Burro	Crayfish Burrows (C8)		
Drift Deposits (B3)	uction in Tilled Soils (C6)	Saturation Visi	Saturation Visible on Aerial Imagery (C9)		
Algal Mat or Crust (B4)	(C7) Geomorphic Position (D2)				
Iron Deposits (B5) Other (Explain in	Remarks)	Shallow Aquita	ard (D3)		
Inundation Visible on Aerial Imagery (B7)		✓ FAC-Neutral T	est (D5)		
Water-Stained Leaves (B9)		Sphagnum mo	oss (D8) (LRR T, U)		
Field Observations:					
Surface Water Present? Yes Vo Depth (inches):	·				
Water Table Present? Yes Vo ODepth (inches):	M	atland Hydrology Present?	Yes 🔍 No 🔿)	
Saturation Present? Yes No Depth (inches):	· · ·	enand frydrology Fresent:			
Describe Recorded Data (stream gauge, monitoring well, aerial phot	tos, previous inspectio	ns), if available:			
Remarks:					

VEGETATION (Five/Four St	trata) -	Use scientific names of plants.
--------------------------	----------	---------------------------------

		Dominant		Sampling Point: _03
	Absolute	_ Species? _ Rel.Strat.	Indicator	Dominance Test worksheet:
Tree Stratum (Plot size: <u>30</u>)	% Cover	Cover	Status	Number of Dominant Species
1. Pinus taeda	50	52.6%	FAC	That are OBL, FACW, or FAC: <u>9</u> (A)
2. Quercus laurifolia	25	26.3%	FACW	
3. Nyssa sylvatica	10	10.5%	FAC	Species Across All Strata: 9 (B)
4. Acer rubrum	10	10.5%	FAC	
5	0	0.0%		Percent of dominant Species
6	0	0.0%		That Are OBL, FACW, or FAC: (80)
7	0	0.0%		Prevalence Index worksheet:
8	0	0.0%		Total % Cover of: Multiply by:
50% of Total Cover: 47.5 20% of Total Cover: 19	95 =	= Total Cover		OBL species x 1 =
Sapling or Sapling/Shrub Stratum (Plot size: 30	_)			FACW species65 x 2 =130
1. Triadica sebifera	20	✔ 44.4%	FAC	FAC species
2 Nyssa sylvatica	10	22.2%	FAC	FACIL species $0 \times 4 = 0$
3 Acer rubrum	15	✓ 33.3%	FAC	$\begin{array}{c} 1100 \text{ species} \\ 1101 \text{ species} \\ 0 \text{ x 5 - } \\ 0 \end{array}$
4	0	0.0%		$\frac{1}{2} \frac{1}{2} \frac{1}$
5	0	0.0%		$\frac{1}{240}$ (A) $\frac{555}{555}$ (B)
6	0	0.0%		Prevalence Index = B/A = <u>2.313</u>
7	0	0.0%		Hydrophytic Vegetation Indicators:
8	0	0.0%		
E0% of Total Cover: 22.5 20% of Total Cover: 0	45	- Total Cover		1 - Rapid Test for Hydrophytic Vegetation
	40			✓ 2 - Dominance Test is > 50%
Shrub Stratum (Plot size: <u>30</u>)				✓ 3 - Prevalence Index is $\leq 3.0^{1}$
1. Cyrilla racemiflora	25	⊻ 100.0%	FACW	Problematic Hydrophytic Vegetation ¹ (Explain)
2	0	0.0%		1
3	0	0.0%		Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
4	0	0.0%		
5	0	0.0%		Definition of Vegetation Strata:
6	0	0.0%		Tree - Woody plants, excluding woody vines,
50% of Total Cover: <u>12.5</u> 20% of Total Cover: <u>5</u>	25=	= Total Cover		(7.6 cm) or larger in diameter at breast height (DBH).
Herb Stratum (Plot size: <u>30</u>)				
1. Woodwardia areolata	35	✓ 58.3%	OBL	Sapling - Woody plants, excluding woody vines,
2 Saururus cernuus	15	25.0%	OBL	approximately 20 ft (6 m) or more in height and less
3. Gelsemium sempervirens	10	16.7%	FAC	
4	0	0.0%		Sapling/Shrub - Woody plants, excluding vines, less
5	0	0.0%		than 3 in. DBH and greater than 3.28 ft (1m) tall.
6	0	0.0%		
7.	0	0.0%		approximately 3 to 20 ft (1 to 6 m) in height.
8	0	0.0%		
9.	0	0.0%		Herb - All herbaceous (non-woody) plants, including
10.	0	0.0%		herbaceous vines, regardless of size, and woody
11.		0.0%		3 ft (1 m) in height.
12	- <u> </u>	0.0%		· · · · ·
50% of Total Cover: 30 20% of Total Cover: 12		= Total Cover		Woody vine - All woody vines, regardless of height.
Woody Vine Stratum (Plot size: <u>30</u>)				
1. <u>Smilax lauritolia</u>	15	▶ 100.0%	FACW	
2	0	□		
3	0	0.0%		
4	0	0.0%		Hydrophytic
5	0	0.0%		Vegetation
50% of Total Cover: 20% of Total Cover:3	15=	= Total Cover		Present? Tes $res \cup$ NO \lor
Remarks: (If observed, list morphological adaptations below).				
· · · · · · · · · · · · · · · · · · ·				
*Indicator suffix - National status or professional dealater assigned because P	alonal status	not defined by D	NC	

SOIL

Profile Descr	ription: (De	scribe to	the depth	needed to o	document	the indi	ator or co	onfirm the	absence of indicators.)
Depth		Matrix			Ree	dox Featu	ures		_
(inches) 0-2	<u>Color (</u> 10YR	moist) 3/2	<u>%</u> 100	<u>Color (</u>	'moist)	%	Tvpe	Loc ²	_ <u>Texture Remarks</u> Peat
2-6	10YR	4/1	100						Silt Loam
6-16	10VR	6\1	90	10VR	4/8	10	 RM		Silt Loam
		011			470				
					·			<u></u>	
¹ Type: C=Con	centration. D	-Depletio	n. RM=Redu	uced Matrix.	CS=Covere	d or Coate	ed Sand Gr	ains ² Loca	ation: PL=Pore Lining, M=Matrix
Hydric Soil I	ndicators:								Indicators for Problematic Hydric Spile ³ .
Histosol (A1)			Pol	vvalue Belo	ow Surface	e (S8) (I RR	S. T. U)	1 am Muck (A0) (LDD O)
Histic Epi	pedon (A2)				n Dark Sur	face (S9)		U)	
Black Hist	tic (A3)				amy Mucky	Mineral (F	1) (I RR ()		
Hydrogen	Sulfide (A4)				my Glever	l Matrix (F	2)	·	
Stratified	Layers (A5)				nleted Mat	rix (F3)	<i>_</i>)		
Organic B	Bodies (A6) (L	RR P. T. U	J)		dox Dark S	urface (F6)		
	kv Mineral (A	(LRR P	, Р. Т. U)		nleted Dark		, F7)		
Muck Pres	sence (A8) (L	RR U)			dox Depres	sions (F8)			Very Shallow Dark Surface (TFT2)
	:k (A9) (LRR	Р. Т)			rl (E10) (LE	DD 11)			Uther (Explain in Remarks)
	Below Dark S	Surface (A	11)		nleted Och	ric (F11) (I	MI DA 151)		
Thick Dar	k Surface (A1	12)	,		n-Mangane		(F12) (I D		
	irie Redox (A	.16) (MI R/	A 150A)		bric Surfac			к O, F, T) \	
Sandy Mu	ick Mineral (S	(I) (I RR () (5)		ta Ochria (E (F 13) (L	κκ Ρ, Ι, υ)	
Sandy Ma	wod Matrix (57) (ERR C	, 3)			FI/) (IVILK	A 151)	1500)	³ Indicators of hydrophytic vegetation and
Sandy Bo	dov (SE)	54)			ucea verti		ILRA 150A,	150B)	wetland hydrology must be present,
	UUX (SS)				dmont Floc	odplain Soi	IS (F19) (M	LRA 149A)	unless disturbed or problematic.
Dark Surf	ace (S7) (LRI	R P, S, T,	U)		omalous Br	ight Loam	y Soils (F20)) (MLRA 14	49A, 153C, 153D)
									1
Restrictive L	ayer (if obs	erved):							
Type:									Hydric Soil Present? Vos 🔍 No 🔿
Depth (inc	hes):								
Remarks:									

Project/Site: Coburn Lakes Subdivision	City/County: Tangi	pahoa	Sampling Date:	20-Oct-16	
Applicant/Owner: Robert Maurin	State:	: LA Sampling I	Point: 04		
Investigator(s): Hydrik-Kelly Turk	Section, Township	, Range: S 21 T	6S R 8E		
Landform (hillslope, terrace, etc.): Flat	Local relief (concave	e, convex, none): convex	Slope: 5.()%/ 2.9°	
Subregion (LRR or MLRA): MLRA 133A in LRR P Lat.:	30.509678	Long.: -90.404479	Datur	n: WGS84	
Soil Man Unit Name: (Aa) Abita silt loam, 0-2% slopes		NWI class	ification. None		
Are climatic /bydrologic conditions on the site typical for this time of ye	ar? Yes 🖲	No (If no, explain i	in Remarks)		
Are Vegetation Soil or Hydrology significant	tly disturbed? A	re "Normal Circumstances"	nresent? Yes	No O	
SUMMARY OF FINDINGS - Attach site map showing sa		ations, transects, imp	vers in Remarks.)	etc.	
Hydrophytic Vegetation Present? Yes No	Is the Samp	oled Area			
Hydric Soil Present? Yes V No	within a We	etland? Yes \bigcirc No $oldsymbol{igodol}$			
Wetland Hydrology Present? Yes U No U					
Remarks:					
Plot located in a mixed pine/hardwood upland area.					
HYDROLOGY					
Wetland Hydrology Indicators:		Secondary Indic	ators (minimum of 2 regu	ired)	
Primary Indicators (minimum of one required; check all that apply)		Surface Soil	Cracks (B6)		
Surface Water (A1)	13)	Sparsely Veç	getated Concave Surface	(B8)	
High Water Table (A2)	5) (LRR U)	Drainage Patterns (B10)			
Saturation (A3)	Odor (C1)	Moss Trim Li	ines (B16)		
Water Marks (B1) Oxidized Rhizosph	neres along Living Roots	(C3) Dry Season	Water Table (C2)		
Sediment Deposits (B2)	ced Iron (C4)	Crayfish Burr	rows (C8)		
Drift Deposits (B3) Recent from Redu			isible on Aerial Imagery (C9)	
Iron Deposits (B5)	e (C7) Pomarks)		itard (D3)		
Inundation Visible on Aerial Imagery (B7)	Reillars)	EAC-Neutral	Test (D5)		
Water-Stained Leaves (B9)		Sphagnum r	noss (D8) (LRR T, U)		
Field Observations:					
Surface Water Present? Yes O No O Depth (inches):					
Water Table Present? Yes O No O Depth (inches):					
Saturation Present? Vac O No O Dopth (inches).	w	etland Hydrology Present?	Yes 🔾 🛛 No 🖲		
(includes capillary fringe) Yes No Depth (incres):					
Describe Recorded Data (stream gauge, monitoring well, aerial phot	os, previous inspectio	ons), if available:			
Remarks:					

VEGETATION	(Five/Four Strata) - Use scientific na	mes of plants.
------------	-------------------	-----------------------	----------------

		Do	minant		Sampling Point: _04		
_Tree Stratum (Plot size:)	Absolute % Cover	Re	el.Strat. Cover	Indicator Status	Dominance Test worksheet:		
1. Pinus taeda	60	✓	80.0%	FAC	Number of Dominant SpeciesThat are OBL, FACW, or FAC:7(A)		
2 Quercus nigra	15		20.0%	FAC			
3	0		0.0%		I otal Number of Dominant Species Across All Strata: 7 (B)		
l	0		0.0%				
5	0		0.0%		Percent of dominant Species That are OBLEACIVE or EACLED 100.0% (A/B)		
)	0		0.0%				
	0		0.0%		Prevalence Index worksheet:		
3	0	\square	0.0%		Total % Cover of: Multiply by:		
50% of Total Cover: <u>37.5</u> 20% of Total Cover: <u>15</u>	75=	= To	tal Cover		OBL species $0 \times 1 = 0$		
Sapling or Sapling/Shrub Stratum (Plot size:)	_			FACW species $0 \times 2 = 0$		
_ llex vomitoria	65		72.2%	FAC	FAC speciles $240 \times 3 = 720$		
Ligustrum sinense	20	⊻.	22.2%	FAC	FACU species $5 \times 4 = 20$		
Prunus serotina	5		5.6%	FACU	UPL species $0 \times 5 = 0$		
	0		0.0%		Column Totals: <u>245</u> (A) <u>740</u> (B)		
			0.0%		Prevalence Index = $B/A = 3.020$		
			0.0%		Hydronhytic Vegetation Indicators:		
·			0.0%				
)	0	□_	0.0%		1 - Rapid Test for Hydrophytic Vegetation		
50% of Total Cover: 45 20% of Total Cover: 18	90 =	= To	tal Cover		✓ 2 - Dominance Test is > 50%		
Shrub Stratum (Plot size:)		_			□ 3 - Prevalence Index is \leq 3.0 ¹		
·	0		0.0%		Problematic Hydrophytic Vegetation ¹ (Explain)		
•	0		0.0%				
•	0	Ц.	0.0%		¹ Indicators of hydric soil and wetland hydrology must be present unless disturbed or problematic		
•	0		0.0%				
j	0		0.0%		Definition of Vegetation Strata:		
)	0	Ц,	0.0%		Tree - Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in.		
50% of Total Cover: 0 20% of Total Cover: 0 Herb Stratum (Plot size:)	0 =	= To	tal Cover		(7.6 cm) or larger in diameter at breast height (DBH).		
1. Lygodium japonicum	10	\square	18.2%	FAC	Sapling - Woody plants, excluding woody vines,		
2. Gelsemium sempervirens	20		36.4%	FAC	than 3 in. (7.6 cm) DBH.		
3. Rubus argutus	25		45.5%	FAC			
4.	0		0.0%		Sapling/Shrub - Woody plants, excluding vines, less		
5	0		0.0%		than 3 in. DBH and greater than 3.28 ft (1m) tall.		
6	0		0.0%		Shrub - Woody plants, excluding woody vines.		
7	0		0.0%		approximately 3 to 20 ft (1 to 6 m) in height.		
8	0		0.0%				
9	0		0.0%		Herb - All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody		
0	0		0.0%		plants, except woody vines, less than approximately		
1	0		0.0%		3 ft (1 m) in height.		
2	0		0.0%				
50% of Total Cover: 27.5 20% of Total Cover: 11	55 :	= To	tal Cover		Woody vine - All woody vines, regardless of height.		
Smilax rotundifolia	25		100 0%	FAC			
			0.0%				
·	0		0.0%				
·	0		0.0%				
	0		0.0%		Hydrophytic		
50% of Total Cover: <u>12.5</u> 20% of Total Cover: <u>5</u>	25 :	= To	tal Cover		Present? Yes No		
Remarks: (If observed, list morphological adaptations below). *Indicator suffix = National status or professional decision assigned because l	Regional status	not d	lefined by F	WS.			
US Army Corps of Engineers			-		Atlantic and Gulf Coastal Plain Region - Version 2		

SOIL

Profile Descr	ription: (Des	scribe to	the depth	needed to document	the indic	ator or cor	nfirm the a	absence of indicators.)
Depth		Matrix		Rec	dox Featu	res			
(inches)	Color (moist)	%	Color (moist)	%		Loc ²	Texture	Remarks
0-5	10YR	3/2	100					Silt Loam	
5-16	10YR	6/3	100					Silt Loam	
			·						
	-							-	
					- <u>-</u>				
¹ Type: C=Con	centration. D	=Depletio	n. RM=Red	uced Matrix, CS=Covere	d or Coate	d Sand Grai	ns ² Locat	tion: PL=Pore Lining. M	=Matrix
Hydric Soil I	ndicators:							Indicators for Pro	blematic Hydric Soils ³ :
Histosol (A1)			Polyvalue Belo	w Surface	(S8) (LRR S	5, T, U)	1 cm Muck (A9) (LRR O)
Histic Epi	pedon (A2)			Thin Dark Sur	face (S9) (LRR S, T, U))	2 cm Muck (A1	0) (LRR S)
Black Hist	ic (A3)			Loamy Mucky	Mineral (F	1) (LRR O)			(F18) (outside MLRA 150A B)
Hydrogen	Sulfide (A4)			Loamy Gleyed	Matrix (F2	2)			(110) (outside MERR 100A, D)
Stratified	Layers (A5)			Depleted Matr	ix (F3)				(E(X, Y, S, Y))
Organic B	odies (A6) (L	RR P, T, U	J)	Redox Dark Su	urface (F6)	1		Rod Paront Mat	torial (TE2)
5 cm Muc	ky Mineral (A	7) (LRR P	, T, U)	Depleted Dark	Surface (F7)			
Muck Pres	sence (A8) (L	RR U)		Redox Depres	sions (F8)				
1 cm Muc	k (A9) (LRR F	P, T)		Marl (F10) (LF	2R U)				in Remarks)
Depleted	Below Dark S	Surface (A	11)		ric (F11) (N	/I RA 151)			
Thick Dar	k Surface (A1	2)			se Masses	(F12) (I RR	0 P T)		
Coast Pra	irie Redox (A	, 16) (MLRA	(150A)		e (F13) (I		0,1,1)		
Sandy Mu	ick Mineral (S	1) (LRR O	, S)		E17) (MIR	Δ 151)			
Sandy Gle	eved Matrix (S	54)	,		c (F18) (M	I DA 150A 1	50B)	³ Indicato	rs of hydrophytic vegetation and
Sandy Re	dox (S5)				dalain Soil	c (E10) (MII	DA 1/0A)	wetlan	d hydrology must be present,
	Matrix (S6)				iabt Loom	5 (1 1 7) (IVILI	(MIDA 147		ss disturbed of problematic.
	ace (S7) (I RF	рсті	D		ight Luang	7 30113 (1 20)	(IVILKA 145	A, 1550, 155D)	
		(1,0,1,	5)						
Restrictive L	ayer (if obse	erved):							
Туре:									
Depth (inc	hes):							Hydric Soil Present	? Yes \cup No $ullet$
Remarks:							·		

Project/Site: Coburn Lakes Subdivision	City/County: Tan	ngipahoa	Sampling Date:	20-Oct-16
Applicant/Owner: Robert Maurin	Stat	te: LA Samp	oling Point: 05	
Investigator(s): Hydrik-Kelly Turk	Section, Townshi	ip, Range: S 21	T _{6S} R _E	3 E
Landform (hillslope, terrace, etc.): Flat	Local relief (conca	ive, convex, none):	ncave Slope:	5.0 % / 2.9 °
Subregion (LRR or MLRA): MLRA 133A in LRR P Li	 at.: 30.509760	Long.: -90.40)6204 Da	tum: WGS84
Soil Map Unit Name: (Gy) Guyton silt loam, 0-1% slopes, occasion	ally flooded	NWI	classification: None	
Are climatic/hydrologic conditions on the site typical for this time of	of year? Yes 🖲	No O (If no, exp	plain in Remarks.)	
Are Vegetation, Soil, or Hydrology signif	icantly disturbed?	Are "Normal Circumsta	nces" present? Yes (• _{No} O
Are Vegetation Soil or Hydrology pature	ally problematic?	(If needed, evoluin any	(answers in Pemarks)	
SUMMARY OF FINDINGS - Attach site map showing	y sampling point lo	cations, transects,	, important features	s, etc.
Hydrophytic Vegetation Present? Yes No	La tha Can			
Hydric Soil Present? Yes	Is the san			
Wetland Hydrology Present? Yes	within a V	Netland?		
Remarks:	I			
Plot taken in an isolated depressional area of a horse pasture of	reated due to equine ac	tivity		
HYDROLOGY				
Wetland Hydrology Indicators:		Secondary	Indicators (minimum of 2 re	equired)
Primary Indicators (minimum of one required; check all that ap	ply)	Surface	e Soil Cracks (B6)	
Surface Water (A1)	a (B13)	Sparse	ely Vegetated Concave Surfa	ce (B8)
High Water Table (A2)	s (B15) (LRR U)	Draina	ige Patterns (B10)	
Saturation (A3)	lfide Odor (C1)	Moss T	Trim Lines (B16)	
Water Marks (B1)	zospheres along Living Roo	ots (C3) Dry Se	ason Water Table (C2)	
Sediment Deposits (B2)	Reduced Iron (C4)	🗹 Crayfis	sh Burrows (C8)	
Drift Deposits (B3)	Reduction in Tilled Soils (C6	6) Satura	ition Visible on Aerial Imager	ту (С9)
Algal Mat or Crust (B4)	urface (C7)	Geomo	orphic Position (D2)	
Iron Deposits (B5) Other (Expla	in in Remarks)	Shallow	w Aquitard (D3)	
Inundation Visible on Aerial Imagery (B7)		FAC-Ne	eutral Test (D5)	
Water-Stained Leaves (B9)		Sphagi	num moss (D8) (LRR T, U)	
Field Observations:				
Surface Water Present? Yes Vo Depth (incl	ies):			
Water Table Present? Yes Vo Depth (incl	nes):	Wetland Hydrology Pres	sent? Yes 🖲 No '	0
Saturation Present? Yes No Depth (includes capillary fringe)	nes): 0	wettand frydrology Fres		0
Remarks:	onotos, previous inspec	tions), if available:		

VEGETATION (Five/Four Strata) - Use scientific names of plants.

		Dominant		Sampling Point: _05
	Absolute	Rel.Strat.	Indicator	Dominance Test worksheet:
Tree Stratum (Plot size:)	% Cover	Cover	Status	Number of Dominant Species
1	0	0.0%		That are OBL, FACW, or FAC:(A)
2	0	0.0%		Total Number of Dominant
3	0	0.0%		Species Across All Strata: 3 (B)
4	0	0.0%		
5	0	0.0%		Percent of dominant Species
6	0	0.0%		That Are OBL, FACW, or FAC:(0.0%(A/B)
7.	0	0.0%	<u>-</u>	Prevalence Index worksheet:
8	0	0.0%		Total % Cover of Multiply by
50% of Total Cover: 0 20% of Total Cover: 0		- Total Cover		
Sapling or Sapling/Shrub Stratum (Plot size:	_)			FACW speciles $0 \times 2 = 0$
1	0			FAC species $0 \times 3 = 0$
2	0	0.0%		FACU species $0 \times 4 = 0$
3	0			UPL species $0 \times 5 = 0$
4	0	0.0%		Column Totals:
5	0	0.0%		
6	0	0.0%		Prevalence Index = B/A = 1.000
7	0	0.0%		Hydrophytic Vegetation Indicators:
8.	0	0.0%		
50% of Total Cover: 0 20% of Total Cover: 0		- Total Covor		
Shrub Stratum (Plot size:)		_		✓ 3 - Prevalence Index is \leq 3.0 ¹
1	0	0.0%		Problematic Hydrophytic Vegetation ¹ (Explain)
2	0	0.0%		
3	0	0.0%		¹ Indicators of hydric soil and wetland hydrology must
4.	0	0.0%	-	be present, unless disturbed or problematic.
5.	0	0.0%	<u>-</u>	Definition of Vegetation Strata:
6				Tree - Woody plants, excluding woody vines.
50% of Total Cover: 0 20% of Total Cover: 0		- Total Cover		approximately 20 ft (6 m) or more in height and 3 in.
				(7.6 cm) or larger in diameter at breast height (DBH).
<u>Herb Stratum</u> (Plot size: <u>30</u>)				
1. Juncus effusus	35	35.7%	OBL	Sapling - Woody plants, excluding woody vines,
2. Hydrocotyle umbellata	23	23.5%	OBL	than 3 in. (7.6 cm) DBH.
3. Persicaria punctata	25	25.5%	OBL	
4. Alternanthera philoxeroides	15	15.3%	OBL	Sapling/Shrub - Woody plants, excluding vines, less
5.	0	0.0%		than 3 in. DBH and greater than 3.28 ft (1m) tall.
6	0	0.0%		
7		0.0%		approximately 3 to 20 ft (1 to 6 m) in height
8				
α		0.0%		Herb - All herbaceous (non-woody) plants, including
10				herbaceous vines, regardless of size, and woody
10				plants, except woody vines, less than approximately
12	0	0.0%		Woody vine All woody vines regardless of height
50% of Total Cover: <u>49</u> 20% of Total Cover: <u>19.6</u>	98 =	= Total Cover		woody vine - All woody vines, regardless of height.
_Woody Vine Stratum (Plot size:)				
1	0	0.0%		
2	0	0.0%		
3			p	
δ	- <u> </u>	0.0%		
۲۰ ۶				Hydrophytic
				Vegetation
50% of Total Cover: 0 20% of Total Cover: 0	=	= Total Cover		
Remarks: (If observed, list morphological adaptations below).				
*Indicator suffix = National status or professional decision assigned because R	egional status	not defined by FV	VS.	

US Army Corps of Engineers

SO	IL
----	----

Profile Descr	ription: (De	scribe to	the depth	needed to	document	t the indic	ator or co	onfirm the	absence of indicators.)		
Depth Matrix Redox Features						-					
(inches)	Color (moist)	_%	Color (lor (moist) TypeLoc2		Texture Remarks				
0-7	10YR	5/1	95	10YR	4/4	5	RM	М	Silty Clay		
7-11	10YR	2/1	100						Silty Clay		
11-16	10YR	6/2	98	10YR	5/6	2	RM	М	Silty Clay		
			-	· .			-		· .		
				· .				·	·		
				. <u> </u>				-	·		
			·	·	·			·			
¹ Type: C=Con	centration. D	=Depletio	n. RM=Red	uced Matrix,	CS=Covere	ed or Coate	d Sand Gr	ains ² Loca	tion: PL=Pore Lining. M=	Matrix	
Hydric Soil I	ndicators:								Indicators for Prol	blematic Hydric Soils ³ :	
	A1)			Pol	yvalue Bel	ow Surface	(S8) (LRR	S, T, U)	1 cm Muck (A9)	(LRR O)	
	pedon (A2)			L Thi	n Dark Sur	face (S9) (LRR S, T,	U)	2 cm Muck (A10) (LRR S)	
	IC (A3)				amy Mucky	Mineral (F	1) (LRR O)		Reduced Vertic	(F18) (outside MLRA 150A,B)	
Hydrogen	Sulfide (A4)			Loa	amy Gleyeo	d Matrix (F2	2)		Piedmont Flood	blain Soils (F19) (LRR P, S, T)	
Stratified	Layers (A5)			✓ De	pleted Mat	rix (F3)			Anomalous Brigh	nt Loamy Soils (F20) (MLRA 153B)	
Organic B	odies (A6) (L	.RR P, T, U	J)	Red	dox Dark S	urface (F6)			Red Parent Mate	erial (TF2)	
5 cm Muc	ky Mineral (A	(17) (LRR P	, I, U)		pleted Darl	k Surface (F7)		Very Shallow Da	rk Surface (TF12)	
	sence (A8) (L	.RR U)		L Red	dox Depres	ssions (F8)			Other (Explain in Remarks)		
	K (A9) (LRR I	P, I)		∐ Ma	rl (F10) (Ll	rr U)					
	Below Dark S	Surface (A	11)		pleted Och	ric (F11) (N	/LRA 151)				
		12) 4() (NH DI	1504		n-Mangane	ese Masses	(F12) (LR	R O, P, T)			
	Irie Redox (A	16) (MLRA	A 150A)		bric Surfac	ce (F13) (L	rr p, t, U))			
	ICK Mineral (S	51) (LRR U	1, 5)		Ita Ochric ((F17) (MLR	A 151)		³ Indicators of hydrophytic vegetation and wetland hydrology must be present,		
Sandy Gle	eyed Matrix (:	54)			duced Vert	ic (F18) (M	LRA 150A,	150B)			
Sandy Red	00X (S5)			Pie	dmont Floo	odplain Soil	s (F19) (M	LRA 149A)	unles	s disturbed or problematic.	
		ודססנ			omalous Br	right Loamy	/ Soils (F20	0) (MLRA 14	9A, 153C, 153D)		
	ace (S7) (LRF	κ Ρ, δ, Ι, Ι	0)								
Restrictive La	ayer (if obs	erved):									
Туре:											
Depth (incl	hes):								Hydric Soil Present?	Yes \bigcirc No \bigcirc	
Remarks:											

Project/Site: Coburn Lakes Subdivision	City/County: Tangipahoa Sampling Date: 25-Oct-16
Applicant/Owner: Robert Maurin	State: LA Sampling Point: 06
Investigator(s): Hydrik-Kelly Turk	Section, Township, Range: S 21 T 6 S R 8 E
Landform (hillslope, terrace, etc.): Flat	Local relief (concave, convex, none): none Slope: 0.0 % / 0.0 °
Subregion (LRR or MLRA): MLRA 133A in LRR P Lat.:	30.509759 Long.: -90.407023 Datum: WGS84
Soil Map Unit Name: (Gy) Guyton silt loam, 0-1% slopes, occasionally	flooded NWL classification: None
Are climatic/hydrologic conditions on the site typical for this time of ve	ar^2 Yes \bigcirc No \bigcirc (If no, explain in Remarks.)
Are Vegetation Soil or Hydrology significant	tly disturbed? Are "Normal Circumstances" present? Yes • No ·
SUMMARY OF FINDINGS - Attach site map showing sa	ampling point locations, transects, important features, etc.
Hydronhytic Vegetation Present? Ves 🔿 No 🔍	
Hydric Soil Procent? Ves \bigcirc No \bigcirc	Is the Sampled Area
Wetland Hydrology Present?	within a Wetland? Yes \bigcirc No $ullet$
Plot taken in upland horse pasture.	
HYDROLOGY	
Wetland Hydrology Indicators:	Coopedant Indianters (minimum of 2 rosuits -1)
Primary Indicators (minimum of one required: check all that apply)	
Surface Water (A1)	13) Sparsely Vegetated Concave Surface (B8)
High Water Table (A2)	IS) (LRR U)
Saturation (A3)	Odor (C1) Moss Trim Lines (B16)
Water Marks (B1) Oxidized Rhizosph	heres along Living Roots (C3) Dry Season Water Table (C2)
Sediment Deposits (B2)	Iced Iron (C4) Crayfish Burrows (C8)
Drift Deposits (B3)	uction in Tilled Soils (C6) Saturation Visible on Aerial Imagery (C9)
Algal Mat or Crust (B4)	e (C7) Geomorphic Position (D2)
Iron Deposits (B5) Other (Explain in	Remarks) Discrete Shallow Aquitard (D3)
Inundation Visible on Aerial Imagery (B7)	FAC-Neutral Test (D5)
Water-Stained Leaves (B9)	Sphagnum moss (D8) (LRR T, U)
Field Observations:	
Surface Water Present? Yes Vo Depth (inches):	
Water Table Present? Yes O No O Depth (inches):	
Saturation Present? Yes O No O Depth (inches):	
Describe Recorded Data (stream gauge, monitoring well, aerial photo	tos, previous inspections), if available:
Remarks:	

VEGETATION (Five/Four Strata) - Use scientific names of plants.

		Dominant		Sampling Point: 06
	Absolute	Rel.Strat.	Indicator	Dominance Test worksheet:
<u>Tree Stratum</u> (Plot size:)	% Cover	Cover	Status	Number of Dominant Species
1	0	0.0%		That are OBL, FACW, or FAC: (A)
2	0	0.0%		Total Number of Dominant
3	0	0.0%		Species Across All Strata: <u>2</u> (B)
4	0	0.0%		
5	0	0.0%		Percent of dominant Species
6	0	0.0%		
7	0	0.0%		Prevalence Index worksheet:
8	0	0.0%		Total % Cover of: Multiply by:
50% of Total Cover: 0 20% of Total Cover: 0	0 =	= Total Cover		OBL species x 1 =
Sapling or Sapling/Shrub Stratum (Plot size:	_)			FACW species $0 \times 2 = 0$
1	0	0.0%		FAC species $0 \times 3 = 0$
2	0	0.0%		FACU speci es 100 x 4 = 400
3	0	0.0%		UPL species $0 \times 5 = 0$
4	0	0.0%		Column Totals: 100 (A) 400 (B)
5	0	0.0%		
6.	0	0.0%		Prevalence Index = B/A = <u>4.000</u>
7.	0	0.0%		Hydrophytic Vegetation Indicators:
8.	0	0.0%		
50% of Total Cover: 0 20% of Total Cover: 0		- Total Covor		1 - Rapid Test for Hydrophytic Vegetation
				2 - Dominance Test is > 50%
<u>Shrub Stratum</u> (Plot size:)				3 - Prevalence Index is $\leq 3.0^{1}$
1	0	0.0%		Problematic Hydrophytic Vegetation ¹ (Explain)
2	0	0.0%		
3	0	0.0%		¹ Indicators of hydric soil and wetland hydrology must
4	0	0.0%		be present, unless disturbed of problematic.
5	0	0.0%		Definition of Vegetation Strata:
6	0	0.0%		Tree - Woody plants, excluding woody vines,
50% of Total Cover: 0 20% of Total Cover: 0	0 =	= Total Cover		approximately 20 ft (6 m) or more in height and 3 in.
(Plot size: 30)				(7.0 cm) of larger in diameter at breast height (DBH).
1 December and the			FAOL	Sapling - Woody plants, excluding woody vines,
	0	▼ <u>80.0%</u>	FACU	approximately 20 ft (6 m) or more in height and less
		✓ 20.0%	FACU	than 3 in. (7.6 cm) DBH.
3				Sapling/Shrub Woody plants excluding vines loss
4	0			than 3 in. DBH and greater than 3.28 ft (1m) tall.
5	0			
0				Shrub - Woody plants, excluding woody vines,
	0	0.0%		approximately 3 to 20 ft (1 to 6 m) in height.
δ	0	□ <u>0.0%</u>		Herb - All herbaceous (non-woody) plants, including
9	0	<u> </u>		herbaceous vines, regardless of size, and woody
10	0	<u> </u>		plants, except woody vines, less than approximately
11	0	<u> </u>		3 ft (1 m) in height.
12	0	0.0%		
50% of Total Cover: 50 20% of Total Cover: 20	=	= Total Cover		vvoody vine - All woody vines, regardless of height.
Woody Vine Stratum (Plot size:)				
1	0	0.0%		
2	0	0.0%		
3	0	0.0%		
4		0.0%		
т Б				Hydrophytic
		Tatal 0		Vegetation Present? Yes No •
	=	= Total Cover		
Remarks: (If observed, list morphological adaptations below).				
*Indicator suffix - National status or professional decision assigned because D	oglopal statur	not defined by F	NS	
mulcator suma = mational status or professional decision assigned because R	egiorial status	not defined by FI	143.	

SOIL

Profile Descr	ription: (De	scribe to	the depth	needed to document	the indic	ator or co	onfirm the a	absence of indicators.)	-	
Depth Matrix Redox Features										
(inches) 0-5	<u>Color (</u> 10YR	moist) 2/1	<u>%</u> 100	Color (moist)	%	Tvpe	Loc ²	Texture Silt Loam	Remarks	
5-9	10YR	3/1	100					Silt Loam		
9-16	10YR	4/2	100					Silt Loam	P	
<u> </u>					·					
¹ Type: C=Con	centration. D	=Depletio	n. RM=Redu	uced Matrix, CS=Covere	d or Coate	ed Sand Gra	ains ² Loca	tion: PL=Pore Lining. M=I	Matrix	
Hydric Soil I	ndicators:							Indicators for Prob	lematic Hydric Soils ³ :	
	A1)			Polyvalue Belo	w Surface	(S8) (LRR	S, T, U)	1 cm Muck (A9)	(LRR O)	
	pedon (A2)			Thin Dark Surf	ace (S9) ((LRR S, T, I	J)	2 cm Muck (A10)	(LRR S)	
	IC (A3)			Loamy Mucky	Mineral (F	1) (LRR O)		Reduced Vertic (I	F18) (outside MLRA 150A,B)	
				Loamy Gleyed	Matrix (F:	2)		Piedmont Floodp	lain Soils (F19) (LRR P, S, T)	
	Layers (AS)	рррті	D.	Depleted Matr	IX (F3)			Anomalous Brigh	t Loamy Soils (F20) (MLRA 153B)	
	ky Mineral (/		ク エ 11)		Irrace (F6,)		Red Parent Mater	rial (TF2)	
	sence (A8) (I		, 1, 0)		Surface (F7)		Very Shallow Dar	k Surface (TF12)	
	k (A9) (I RR	P. T)		Marl (E10) (LE				Other (Explain in	Remarks)	
	Below Dark S	Surface (A	11)		ic (F11) (I	MI DA 151)				
Thick Dar	k Surface (A	12)	,		se Masses	(F12) (I R	2 O P T)			
Coast Pra	irie Redox (A	, 16) (MLRA	A 150A)		e (F13) (I		(0,1,1)			
Sandy Mu	ick Mineral (S	51) (LRR O	, S)		=17) (MLR	A 151)				
Sandy Gle	eyed Matrix (S4)		Reduced Verti	c (F18) (N	ILRA 150A.	150B)	³ Indicators	of hydrophytic vegetation and	
Sandy Ree	dox (S5)			Piedmont Floo	dplain Soi	ls (F19) (M	LRA 149A)	wetland hydrology must be present, unless disturbed or problematic.		
Stripped M	Matrix (S6)			Anomalous Bri	ght Loam	y Soils (F20) (MLRA 149	9A, 153C, 153D)		
Dark Surfa	ace (S7) (LRI	R P, S, T, I	U)							
Restrictive La	ayer (if obs	erved):								
Type:					_			Hydric Soil Present?		
Depth (incl	hes):				_					
Remarks:										

Project/Site: Coburn Lakes Subdivision	City/County: Ta	ngipahoa	Sampli	ng Date: 25-Oct-16		
Applicant/Owner: Robert Maurin	Sta	ite: LA	Sampling Point: 07	1		
Investigator(s): Hydrik-Kelly Turk	_ Section, Townsł	hip, Range: S 21	T 65	R 8 E		
Landform (hillslope, terrace, etc.): Flat	Local relief (conca	ave, convex, none)	: None SI	lope: 0.0 % / 0.0 °		
Subregion (LRR or MLRA): MLRA 133A in LRR P Lat.:	30.507965	Long.:	-90.404055	Datum: WGS84		
Soil Map Unit Name: (Aa) Abita silt Ioam, 0-2% slopes			NWI classification:	None		
Are climatic/hydrologic conditions on the site typical for this time of ye	ear? Yes		no, explain in Remark	(5.)		
Are Vegetation , Soil , or Hydrology significan	itly disturbed?	Are "Normal Circ	umstances" present?	, Yes 🔍 No 🔾		
Are Vegetation Soil or Hydrology naturally	problematic?	(If needed, expla	ain any answers in Re	marks)		
SUMMARY OF FINDINGS - Attach site map showing sa	ampling point l	ocations, trans	sects, important	features, etc.		
Hydrophytic Vegetation Present?YesNoHydric Soil Present?YesNoWetland Hydrology Present?YesNo	Is the Sa within a	mpled Area Wetland? Yes	○ _{No} ●			
Remarks: Plot located in a mixed pine/hardwood upland area.						
Wetland Hydrology Indicators:			andar Indiastara (mini	mum of 2 roquirod)		
Primary Indicators (minimum of one required: check all that apply)			Surface Soil Cracks (B6			
Surface Water (A1)	313)		Sparsely Vegetated Cor	, ncave Surface (B8)		
High Water Table (A2)	15) (LRR U)		Drainage Patterns (B10)			
Saturation (A3)	Odor (C1)		Moss Trim Lines (B16)			
Water Marks (B1)	heres along Living Ro	ots (C3)	Dry Season Water Tabl	e (C2)		
Sediment Deposits (B2) Presence of Redu	Jced Iron (C4) Justian in Tillad Sails ((γ ₆)	Crayfish Burrows (C8)			
Algal Mat or Crust (B4)		.0)	Geomorphic Position (2riai Imagery (C9)		
□ Iron Deposits (B5) □ Other (Explain in	Remarks)		Shallow Aquitard (D3)	<i>(2)</i>		
Inundation Visible on Aerial Imagery (B7)	(internet to)		FAC-Neutral Test (D5)			
Water-Stained Leaves (B9)			Sphagnum moss (D8) ((LRR T, U)		
Field Observations:						
Surface Water Present? Yes O No O Depth (inches):	:					
Water Table Present? Yes O No O Depth (inches):	:		.,	\bigcirc		
Saturation Present? Yes No O Depth (inches):	:	Wetland Hydrolog	gy Present? Yes			
Describe Recorded Data (stream gauge, monitoring well, aerial phot	tos, previous insper	ctions), if available	2:			
Remarks:						

VEGETATION (Five/Four Strata) - Use scientific names of plants.

		D	ominant		Sampling Point: _07		
	Absolute	R	el.Strat.	Indicator	Dominance Test worksheet:		
Tree Stratum (Plot size: <u>30</u>)	% Cove	r	Cover	Status	Number of Dominant Species		
1. Pinus taeda	45		75.0%	FAC	That are OBL, FACW, or FAC: <u>6</u> (A)		
2. Prunus serotina	15		25.0%	FACU	Total Number of Dominant		
3	0		0.0%		Species Across All Strata: 9 (B)		
4			0.0%		Porcent of dominant Species		
5			0.0%	·	That Are OBL, FACW, or FAC:66.7% (A/B)		
6			0.0%				
/			0.0%	·	Prevalence Index worksheet:		
8	0		0.0%	·	Total % Cover of: Multiply by:		
50% of Total Cover: <u>30</u> 20% of Total Cover: <u>12</u>	60	= T(otal Cover	•	$\begin{array}{ccc} \text{OBL species} & \underline{0} & \text{x 1} = \underline{0} \\ \end{array}$		
Sapling or Sapling/Shrub Stratum (Plot size: 30	_)				FACW species x 2 =		
1. Ilex vomitoria	25		55.6%	FAC	FAC species $130 \times 3 = 390$		
2. Ligustrum sinense	20		44.4%	FAC	FACU species $55 \times 4 = 220$		
3	0		0.0%		UPL species x 5 =		
4	0		0.0%		Column Totals: <u>185</u> (A) <u>610</u> (B)		
5	0		0.0%		Prevalence Index = $B/A = 3297$		
6	0		0.0%				
7	0		0.0%		Hydrophytic vegetation indicators:		
8	0		0.0%		1 - Rapid Test for Hydrophytic Vegetation		
50% of Total Cover: 22.5 20% of Total Cover: 9	45	= T(otal Cover		✓ 2 - Dominance Test is > 50%		
Shrub Stratum (Plot size: <u>30</u>)					□ 3 - Prevalence Index is \leq 3.0 ¹		
1. Callicarpa americana	10	✓	100.0%	FACU	Problematic Hydrophytic Vegetation ¹ (Explain)		
2. Ardisia crenata	0		0.0%	FAC			
3	0		0.0%		¹ Indicators of hydric soil and wetland hydrology must		
4	0		0.0%		be present, unless disturbed or problematic.		
5	0		0.0%	-	Definition of Vegetation Strata:		
6	0		0.0%		Tree - Woody plants, excluding woody vines,		
50% of Total Cover: 5 20% of Total Cover: 2	10	= T(otal Covei	-	approximately 20 ft (6 m) or more in height and 3 in.		
Horb Stratum (Plot size: 30)							
	15		25.0%	EAC	Sapling - Woody plants, excluding woody vines,		
2 Gelsemium semnervirens(Subregion WGC)	20		23.0%	FACU	approximately 20 ft (6 m) or more in height and less		
3 Smilay dauca	_ <u></u>		25.0%	FAC			
4 Rubus trivialis	_ <u>10</u>		16.7%	FACU	Sapling/Shrub - Woody plants, excluding vines, less		
5			0.0%		than 3 in. DBH and greater than 3.28 ft (1m) tall.		
6			0.0%				
7	0		0.0%		Shrub - Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height.		
8	0		0.0%				
9.	0		0.0%		Herb - All herbaceous (non-woody) plants, including		
10.	0		0.0%		herbaceous vines, regardless of size, and woody		
11.	0		0.0%		3 ft (1 m) in height.		
12.	0	\square	0.0%				
50% of Total Cover: 30 20% of Total Cover: 12	60	 = Te	otal Cove		Woody vine - All woody vines, regardless of height.		
Woody Vine Stratum (Plot size: 30)			100	510			
1. Vitis rotundifolia	10		100.0%	FAC			
2	0		0.0%				
3	0		0.0%	·			
4	0		0.0%		Hydrophytic		
5	0		0.0%	·	Vegetation		
50% of Total Cover: 20% of Total Cover:	10	= T(otal Cove		Present? THES IND U		
Remarks: (If observed, list morphological adaptations below).							
*Indicator outfity Mational status or sufficiency in the state of the	a alon - L - L - L		dofin	MC.			
mulcator suffix = national status or professional decision assigned because R	egional status	s not	uerined by F	vv5.			

*Indicator suffix = National status or professional decision assigned because Regional status not defined by FWS.

SOIL

Profile Descr	ription: (Describe to	the depth n	eeded to documen	t the indic	ator or con	firm the a	absence of indicators	.)
Depth	Matrix		Re	dox Featu	res			
(inches) Color (moist) %			Color (moist)	%	Tvpe ¹	Loc ²	Texture	Remarks
0-4	10YR 4/3	100					Silt Loam	
					· ·			
	·						P	
		,			- <u></u> -			
¹ Type: C=Con	centration. D=Depletio	n. RM=Reduc	ed Matrix, CS=Cover	ed or Coate	d Sand Graii	ns ² Loca	tion: PL=Pore Lining. N	1=Matrix
Hydric Soil I	ndicators:						Indicators for Pr	oblematic Hydric Soils ³ :
Histosol (A1)		Polyvalue Bel	ow Surface	(S8) (LRR S	, T, U)	1 cm Muck (A	2) (LRR O)
Histic Epi	pedon (A2)		Thin Dark Su	rface (S9) (LRR S, T, U)		2 cm Muck (A	10) (LRR S)
Black Hist	tic (A3)		Loamy Mucky	/ Mineral (F	1) (LRR O)		Reduced Verti	c (F18) (outside MLRA 150A B)
Hydrogen	Sulfide (A4)		Loamy Gleye	d Matrix (F2	2)		Piedmont Floo	dnlain Soils (E19) (LRR P S T)
Stratified	Layers (A5)		Depleted Mat	rix (F3)				(1, 2) ($1, 2)$ (
Organic B	Bodies (A6) (LRR P, T, I	U)	Redox Dark S	Surface (F6)			Rod Paront Ma	torial (TE2)
5 cm Muc	ky Mineral (A7) (LRR P	P, T, U)	Depleted Dar	k Surface (I	-7)			(TE12)
Muck Pres	sence (A8) (LRR U)		Redox Depre	ssions (F8)	.,			
1 cm Muc	:k (A9) (LRR P, T)		Marl (F10) (I	RR II)			Uther (Explain	in Remarks)
Depleted	Below Dark Surface (A	.11)		nric (F11) (N	/I RA 151)			
Thick Dar	k Surface (A12)	,			(F12) (I RR	ΟΡΤ)		
Coast Pra	irie Redox (A16) (MLR/	A 150A)		са (F13) (П		0,1,1)		
Sandy Mu	ick Mineral (S1) (I RR () (S)			(((1,1,0)) ((1,5,1))			
Sandy Gle	eved Matrix (S4)	,, 0,		(I I /) (IVIERA	4 131) I DA 160A 1		³ Indicato	ors of hydrophytic vegetation and
Sandy Re	dox (S5)			odolain Sail		JUD)	wetlar	nd hydrology must be present,
	Matrix (S6)			oupiain soii	S (F I 9) (IVILI	(A 149A)		ess disturbed or problematic.
		11)		right Loamy	5011S (F2U)	(IVILRA 149	9A, 153C, 153D)	
		0)						
Restrictive L	ayer (if observed):							
Туре:								
Depth (inc	hes):						Hydric Soll Presen	t? Yes U No 🔍
Remarks:								

Project/Site: Coburn Lakes Subdivision	City/County: Tangipahoa Sampling Date: 25-Oct-16	
Applicant/Owner: Robert Maurin	State: LA Sampling Point: 08	
Investigator(s): Hydrik-Kelly Turk	Section, Township, Range: S 21 T 6 S R 8 E	
Landform (hillslope, terrace, etc.): Swale	Local relief (concave, convex, none): Concave Slope: 4.0 % / 2.3 °	
Subregion (LRR or MLRA): MLRA 133A in LRR P Lat.: 30.505883 Long.: -90.403117 Datum: WGS84		
Soil Map Unit Name: (Go) Guyton silt loam, 0-1% slopes, rarely flooded NWI classification: None		
Are climatic/hydrologic conditions on the site typical for this time of year? Yes \bigcirc No \bigcirc (If no. explain in Remarks.)		
Are Vegetation , Soil , or Hydrology significantly disturbed? Are "Normal Circumstances" present? Yes No O		
Are Vegetation Soil or Hydrology naturally problematic? (If peopled explain any answers in Remarks)		
SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc.		
Hydrophytic Vegetation Present? Yes • No		
Hydric Soil Present? Yes • No	Is the Sampled Area	
Wetland Hydrology Present? Yes • No	within a Wetland? Yes \odot NO \bigcirc	
Remarks:		
Plot located in a mixed pine/hardwood wetland habitat.		
HYDROLOGY		
Wetland Hydrology Indicators:	Secondary Indicators (minimum of 2 required)	
Primary Indicators (minimum of one required; check all that apply)		
Surface Water (A1)		
High Water Table (A2) Marl Deposits (B15) (LRR U) Drainage Patterns (B10)		
□ Saturation (A3) □ Hydrogen Sulfide Odor (C1) ☑ Moss Trim Lines (B16)		
Water Marks (B1) Oxidized Rhizospheres along Living Roots (C3) Dry Season Water Table (C2)		
□ Sediment Deposits (B2) □ Presence of Reduced Iron (C4) ✓ Crayfish Burrows (C8)		
Drift Deposits (B3) Recent from Reduction in Tilled Soils (C6) Saturation Visible on Aerial Imagery (C9) Algal Mat or Crust (B4) Thin Muck Surface (C7) Comparable Desition (D2)		
Algal Mat or Crust (B4) Inin Muck Surface (C7) Geomorphic Position (D2)		
Uther (Explain in	Remarks) Shallow Aquitatio (D3)	
Water-Stained Leaves (B9)		
Field Observations:		
Surface Water Present? Yes O No O Depth (inches):		
Water Table Present? Yes No		
Saturation Present?	Wetland Hydrology Present? Yes 💿 No 🔾	
(includes capillary fringe) Yes V No V Depth (inches):		
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:		
Domarks		
Kennarks.		
VEGETATION (Five/Four Strata) -	Use scientific names of plants.	
---------------------------------	---------------------------------	
---------------------------------	---------------------------------	

		Dominant		Sampling Point: _08
	Absolute	_ Species? Rel.Strat.	Indicator	Dominance Test worksheet:
Tree Stratum (Plot size: <u>30</u>)	% Cover	Cover	Status	Number of Dominant Species
1. Quercus laurifolia	55	✓ 55.0%	FACW	That are OBL, FACW, or FAC: (A)
2. Nyssa sylvatica	10	10.0%	FAC	
3. Magnolia virginiana	25	✓ 25.0%	FACW	Total Number of Dominant
4 Pinus taeda	10	10.0%	FAC	
5	0	0.0%		Percent of dominant Species
6	0	0.0%		That Are OBL, FACW, or FAC:(A/B)
7	0	0.0%		Prevalence Index worksheet
8				Total % Cover of Multiply by:
5.0% of Total Cover: 50 20% of Total Cover: 20				
Sapling or Sapling/Shrub Stratum (Plot size: 30	_)			FACW species $150 \times 2 = 300$
	25	▼ <u>50.0%</u>	FACW	FAC species 30 x 3 = 90
2. Quercus laurifolia	15	✓ 30.0%	FACW	FACU species $0 \times 4 = 0$
3. Morella cerifera	10	✓ _20.0%	FAC	UPL species x 5 =
4	0	0.0%		Column Totals: <u>245</u> (A) <u>455</u> (B)
5	0	0.0%		Drovelence Index P/A 1 057
6	0	0.0%		$D = D = D = \frac{1.857}{2}$
7	0	0.0%		Hydrophytic Vegetation Indicators:
8	0	0.0%		1 - Rapid Test for Hydrophytic Vegetation
50% of Total Cover: 25 20% of Total Cover: 10	50 =	Total Cover		\mathbf{M} 2. Dominance Test is $> 50\%$
				\checkmark 2 - Dominance rest is > 50%
Shrub Stratum (Plot size:)				▼ 3 - Prevalence Index is $\leq 3.0^{+}$
1	0			Problematic Hydrophytic Vegetation ¹ (Explain)
2	0	0.0%		
3	0			Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
4	0	0.0%		
5	0	0.0%		Definition of Vegetation Strata:
6	0	0.0%		Tree - Woody plants, excluding woody vines,
50% of Total Cover: 20% of Total Cover:	=	Total Cover		approximately 20 ft (6 m) or more in height and 3 in.
Herb Stratum (Plot size: 30)				
1 Woodwardia areolata	45	1 01 20/		Sapling - Woody plants, excluding woody vines,
2. Osmunda sinnamomoa				approximately 20 ft (6 m) or more in height and less
			FACW	than 3 lh. (7.6 cm) DBH.
3				Sapling/Shruh - Woody plants, excluding vines, less
4				than 3 in. DBH and greater than 3.28 ft (1m) tall.
5	0			
6	0	0.0%		Shrub - Woody plants, excluding woody vines,
/	0	<u> </u>		approximately 3 to 20 ft (1 to 6 m) in height.
8	0	□		Horb All borbaccours (non-woody) plants, including
9	0	0.0%		herbaceous vines, regardless of size, and woody
10	0			plants, except woody vines, less than approximately
11	0	0.0%		3 ft (1 m) in height.
12	0	0.0%		
50% of Total Cover:40 20% of Total Cover:16	80 =	Total Cover		Woody vine - All woody vines, regardless of height.
Woody Vine Stratum (Plot size: 30)				
1 Smilay Jaurifolia	15	100.00/	EACW	
			TACW	
۲				
J				
4	0	<u> </u>		Hydrophytic
5	0	0.0%		
50% of Total Cover: 7.5 20% of Total Cover: 3	15=	Total Cover		Present? Yes $ullet$ No $igcup$
Demarks: (If observed, list marphological adaptations below)				1
remains. (It observed, list morphological adaptations below).				
*Indicator suffix = National status or professional decision assigned because R	enional status i	not defined by FV	vs	

Profile Desci	ription: (De	scribe to	the depth	needed to document	the indic	ator or co	nfirm the a	absence of indicators.)		
Depth Matrix		-	Red	dox Featu	res					
(inches) 0-2	Color (moist)	%	Color (moist)	%	<u>Tvpe</u> ¹	Loc ²	Texture Muck	Remarks	
2-8	10YR	2/1	100					Silt Loam		
0 14	10VD	2/1	100	· ·				Silt Loom		
		3/1	100		·					
			- <u></u>	·		- <u></u>				
	-						-			
¹ Type: C=Con	centration. D	=Depletio	n. RM=Red	uced Matrix, CS=Covere	d or Coate	d Sand Gra	ins ² Locat	tion: PL=Pore Lining. M=Matri	x	
Hydric Soil I	ndicators:							Indicators for Problema	atic Hydric Soils ³ :	
Histosol (A1)			Polyvalue Belo	w Surface	(S8) (LRR \$	S, T, U)	1 cm Muck (A9) (LRR	.0)	
Histic Epi	pedon (A2)			Thin Dark Sur	face (S9) (LRR S, T, U)	2 cm Muck (A10) (LR	R S)	
Black Hist	tic (A3)			Loamy Mucky	Mineral (F	1) (LRR O)		Reduced Vertic (F18)	(outside MLRA 150A,B)	
Hydroger	Sulfide (A4)			Loamy Gleyed	Matrix (F2	!)		Piedmont Floodplain S	Soils (F19) (LRR P, S, T)	
Stratified	Layers (A5)			Depleted Matr	ix (F3)			Anomalous Bright Loa	amy Soils (F20) (MLRA 153B)	
Organic E	Bodies (A6) (L	RR P, T, L	J) 	Redox Dark S	urface (F6)			Red Parent Material (TF2)	
5 cm Muc	ky Mineral (A	.7) (LRR P	, I, U)	Depleted Dark	Surface (F	7)		Very Shallow Dark Su	rface (TF12)	
		кк U) эт)		Redox Depres	sions (F8)			Other (Explain in Rem	narks)	
	Relow Dark 9	(Δ^{\prime})	11)	Depleted Oph	(RU)	M DA 1E1)				
Thick Dar	k Surface (A1	2)	,		10 (FTT) (N	(E12) (LRA 151)				
Coast Pra	irie Redox (A	_, 16) (MLRA	(150A)		e (F13) (LF		0,1,1)			
Sandy Mu	ick Mineral (S	1) (LRR O	, S)		E (1 10) (E F17) (MLR)	A 151)				
Sandy Gle	eyed Matrix (S	54)		Reduced Verti	c (F18) (M	LRA 150A,	150B)	³ Indicators of h	ydrophytic vegetation and	
Sandy Re	dox (S5)			Piedmont Floo	dplain Soil	s (F19) (ML	RA 149A)	unless disturbed or problematic.		
Stripped I	Matrix (S6)			Anomalous Br	ight Loamy	Soils (F20)) (MLRA 149	9A, 153C, 153D)		
Dark Surf	ace (S7) (LRF	R P, S, T, I	J)							
Restrictive L	ayer (if obs	erved):								
Туре:								Hydric Soil Present?		
Depth (inc	hes):							nyune son resent.		
Remarks:										
1										

Project/Site: Coburn Lakes Subdivision (City/County: Tar	ngipahoa		Sampling Date:	25-Oct-16	
Applicant/Owner: Robert Maurin	Stat	te: LA	_ Sampling P	oint: 09		
Investigator(s): Hydrik-Kelly Turk	Section, Townsh	ip, Range: S _2	21T	6 S R 8	3 E	
Landform (hillslope, terrace, etc.): Hillslope	Local relief (conca	ive, convex, non	e): convex	Slope: 1	10.0 % / 5.7 °	
Subregion (LRR or MLRA): MLRA 133A in LRR P Lat.:	30.505849	Long.:	-90.402646	Da	tum: WGS84	
Soil Map Unit Name:			NWI classif	fication: None		
Are climatic/hydrologic conditions on the site typical for this time of year	r? Yes 🖲) No 🔾 (I	f no, explain ir	n Remarks.)	-	
Are Vegetation 🗌 , Soil 🗌 , or Hydrology 🗌 significantly	y disturbed?	Are "Normal Ci	rcumstances"	present? Yes (● No ○	
Are Vegetation, Soil, or Hydrology naturally pr	roblematic?	(If needed, exp	olain any answ	ers in Remarks.)		
SUMMARY OF FINDINGS - Attach site map showing san	npling point lo	ocations, trai	nsects, imp	ortant feature	s, etc.	
Hydrophytic Vegetation Present? Yes $ullet$ No $igodot$	Is the Sar	mpled Area				
Hydric Soil Present? Yes O No 🖲		прючина м. н	s O No 🖲			
Wetland Hydrology Present? Yes O No O		Netiana?				
Remarks: Plot located on upland pine ridge between two wetland areas.						
HYDROLOGY						
Wetland Hydrology Indicators:		S	econdary Indica	tors (minimum of 2 re	equired)	
Primary Indicators (minimum of one required; check all that apply)		L	Surface Soil C	Cracks (B6)		
Surface Water (A1)	3))		Sparsely Vege	etated Concave Surfa	ce (B8)	
High Water Lable (A2) Width Deposits Katuration (A3)) (LKK U))dor (C1)		Drainage Patterns (B10)			
Water Marks (B1)	Pres along Living Roc	nts (C3)		165 (B10) Nater Table (C2)		
Sediment Deposits (B2)	ed Iron (C4)		Crayfish Burrows (C2)			
Drift Deposits (B3)	tion in Tilled Soils (C	.6)	Saturation Vis	sible on Aerial Imager	rv (C9)	
Algal Mat or Crust (B4)	(C7)		Geomorphic F	Position (D2)	J ()	
Iron Deposits (B5) Other (Explain in Re	emarks)		Shallow Aquit	tard (D3)		
Inundation Visible on Aerial Imagery (B7)			FAC-Neutral	Test (D5)		
Water-Stained Leaves (B9)			Sphagnum m	ioss (D8) (LRR T, U)		
Field Observations:						
Surface Water Present? Yes O No O Depth (inches):						
Water Table Present? Yes No O Depth (inches):						
Saturation Present? Yes No Depth (inches):		Wetland Hydrol	ogy Present?	Yes \cup No	•	
(includes capillary tringe)		tions) if availar	le.			
Describe Recorded Data (stream gauge, monitoring weil, aenai photo.	s, previous inspec	, tions), it availab	16.			
Remarks:						

VEGETATION (Five/Four Strata)	-	Use scientific names of plants.
--------------------------------------	---	---------------------------------

		Do	ominant		Sampling Point: 09
	Absolute	Re Re	el.Strat.	Indicator	Dominance Test worksheet:
Tree Stratum (Plot size: <u>30</u>)	% Cover		Cover	Status	Number of Dominant Species
1. Pinus taeda	60	✓	80.0%	FAC	That are OBL, FACW, or FAC:6(A)
2. Prunus serotina	10		13.3%	FACU	
3. Liquidambar styraciflua	5		6.7%	FAC	Total Number of Dominant
4.	0		0.0%		
5	0	\square	0.0%		Percent of dominant Species
6		\square	0.0%		That Are OBL, FACW, or FAC:
7			0.0%		
0		<u> </u>	0.0%		Tatal 0/ Occur of Multiple her
			0.0%		
50% of lotal Cover: 37.5 20% of lotal Cover: 15		= 10	otal Cover		OBL species $0 \times 1 = 0$
Sapling or Sapling/Shrub Stratum (Plot size: 30)				FACW species x 2 =
1. <u>Ilex vomitoria</u>	35		100.0%	FAC	FAC speci es 150 x 3 = 450
2	0	\square	0.0%		FACU speciles $25 \times 4 = 100$
3	0		0.0%		UPL species $0 \times 5 = 0$
4	0		0.0%		Column Totals: 175 (A) 550 (B)
5	0		0.0%		
6	0		0.0%		Prevalence Index = $B/A = 3.143$
7.	0		0.0%		Hydrophytic Vegetation Indicators:
8	0	\square	0.0%		
50% of Total Cover: 17 5 20% of Tatal Cover: 7	25		tal Cours		1 - Rapid Test for Hydrophytic Vegetation
Su% of Total Cover: 20% of Total Cover:	35 :	= 10	otal Cover		✓ 2 - Dominance Test is > 50%
Shrub Stratum (Plot size: <u>30</u>)					□ 3 - Prevalence Index is \leq 3.0 ¹
1. Ardisia crenata	15		100.0%	FAC	Problematic Hydrophytic Vegetation ¹ (Explain)
2	0		0.0%		
3	0		0.0%		¹ Indicators of hydric soil and wetland hydrology must
4.	0		0.0%		be present, unless disturbed or problematic.
5			0.0%		Definition of Vegetation Strata:
6		<u> </u>	0.0%		Tree - Woody plants, excluding woody vines,
50% of Total Cover: 7.5 20% of Total Cover: 2	<u> </u>		tal Covor		approximately 20 ft (6 m) or more in height and 3 in.
		- 10			(7.6 cm) or larger in diameter at breast height (DBH).
Herb Stratum (Plot size: <u>30</u>)					
1. Lonicera japonica	15	∕.	60.0%	FACU	approximately 20 ft (6 m) or more in height and less
2. Smilax glauca	10		40.0%	FAC	than 3 in. (7.6 cm) DBH.
3	0		0.0%		
4	0		0.0%		Sapling/Shrub - Woody plants, excluding vines, less
5.	0		0.0%		than 3 in. DBH and greater than 3.28 ft (1m) tall.
6	0		0.0%		
7.	0		0.0%		approximately 3 to 20 ft (1 to 6 m) in height.
8	0		0.0%		
0 Q			0.0%		Herb - All herbaceous (non-woody) plants, including
10			0.0%		herbaceous vines, regardless of size, and woody
10			0.0%		plants, except woody vines, less than approximately
40			0.0%		
۱۷	0	Ш.	0.0%		Woody vine - All woody vince, regardless of height
50% of Total Cover: <u>12.5</u> 20% of Total Cover: <u>5</u>	25=	= To	otal Cover		
Woody Vine Stratum (Plot size: 10)					
1. Vitis rotundifolia	15	✓	60.0%	FAC	
2. Smilax rotundifolia	10		40.0%	FAC	
3.	0		0.0%		
Δ			0.0%		
···5			0.0%		Hydrophytic
			0.070		Vegetation Present? Yes I No
50% of 10tal Cover: 12.5 20% of 10tal Cover: 5		= 10	otal Cover		
Remarks: (If observed, list morphological adaptations below).					
*Indicator suffix = National status or professional decision assigned because R	Regional status	not o	defined by F	NS.	

Profile Descr	iption: (De	scribe to	the depth	needed to document	the indic	ator or co	nfirm the a	absence of indicators.))			
Depth <u>Matrix</u>				Rec	lox Featu	ires						
(inches)	Color (moist)	_%	Color (moist)	_%		Loc ²	Texture	Remarks			
0-5	10YR	5/2	100					Silt Loam				
5-11	10YR	6/3	100					Silt Loam				
11-16	10YR	7/3	100					Silt Loam				
						_			9			
				·								
				·								
		-		·								
¹ Type: C=Cond	centration. D	=Depletio	n. RM=Red	uced Matrix, CS=Covere	d or Coate	ed Sand Gra	ins ² Loca	tion: PL=Pore Lining. M=	Matrix			
Hydric Soil I	ndicators:							Indicators for Pro	blematic Hydric Soils ³ :			
Histosol (A	A1)			Polyvalue Belo	w Surface	e (S8) (LRR	S, T, U)	1 cm Muck (A9)	(LRR O)			
Histic Epip	pedon (A2)			Thin Dark Surf	ace (S9)	(LRR S, T, L	J)	2 cm Muck (A10)) (LRR S)			
Black Hist	ic (A3)			Loamy Mucky	Mineral (F	1) (LRR O)		Reduced Vertic	(F18) (outside MLRA 150A,B)			
Hydrogen	Sulfide (A4)			Loamy Gleyed	Matrix (F	2)		Piedmont Flood	plain Soils (F19) (LRR P, S, T)			
Stratified I	Layers (A5)			Depleted Matr	ix (F3)			Anomalous Brig	ht Loamy Soils (F20) (MLRA 153B)			
Organic B	odies (A6) (L	RR P, T, U	J)	Redox Dark Su	irface (F6)		Red Parent Mate	erial (TF2)			
5 cm Muc	ky Mineral (A	47) (LRR P	, T, U)	Depleted Dark	Surface ((F7)		Very Shallow Da	ark Surface (TF12)			
Muck Pres	sence (A8) (L	.RR U)		Redox Depres	sions (F8)			Other (Explain i	n Remarks)			
1 cm Muc	k (A9) (LRR	P, T)		🔟 Marl (F10) (LR	RU)							
Depleted I	Below Dark S	Surface (A	11)	Depleted Ochr	ic (F11) (I	MLRA 151)						
Thick Darl	k Surface (A1	12)		Iron-Mangane	se Masses	(F12) (LRF	2 O, P, T)					
Coast Prai	irie Redox (A	.16) (MLRA	A 150A)	Umbric Surfac	e (F13) (L	RR P, T, U)		³ Indicators of hydrophytic vegetation and				
Sandy Mu	ck Mineral (S	51) (LRR C	(, S)	Delta Ochric (I	-17) (MLR	A 151)						
Sandy Gle	eyed Matrix (54)		Reduced Verti	c (F18) (N	ILRA 150A,	150B)	wetland hydrology must be present,				
	dox (S5)			Piedmont Floo	dplain Soi	ls (F19) (ML	_RA 149A)	unles	ss disturbed or problematic.			
			D.	Anomalous Br	ght Loam	y Soils (F20) (MLRA 149	9A, 153C, 153D)				
		κ Ρ, 5 , Ι,))									
Restrictive La	ayer (if obs	erved):										
Type:					_			Hydric Soil Present?				
Depth (incl	hes):				_							
Remarks:												

Project/Site: Coburn Lakes Subdivision	City/County: Tangipahoa Sampling Date: 25-Oct-16
Applicant/Owner: Robert Maurin	State: LA Sampling Point: 10
Investigator(s): Hydrik-Kelly Turk	Section, Township, Range: S 21 T 6 S R 8 E
Landform (hillslope, terrace, etc.): Flat	Local relief (concave, convex, none): CONCAVE Slope: 5.0 % / 2.9 °
Subregion (LRR or MLRA): MLRA 133A in LRR P Lat.:	30.506213 Long.: -90.405784 Datum: WGS84
Soil Map Unit Name: (Aa) Abita silt loam, 0-2% slopes	NWI classification: None
Are climatic/hydrologic conditions on the site typical for this time of ye	$rar?$ Yes Θ No O (If no, explain in Remarks.)
Are Vegetation Soil or Yedrology significant	tly disturbed? Are "Normal Circumstances" present? Yes • No ·
SUMMARY OF FINDINGS - Attach site map showing sa	ampling point locations, transects, important features, etc.
Hydrophytic Vegetation Present? Yes No	
Hydric Soil Present? Yes	Is the Sampled Area
Wetland Hydrology Present? Yes	within a Wetland? Tes \odot No \bigcirc
Remarks:	
Plot located in an isolated mixed pine/hardwood wetland pocket.	
HYDROLOGY	
Wetland Hydrology Indicators:	Secondary Indicators (minimum of 2 required)
Primary Indicators (minimum of one required; check all that apply)	Surface Soil Cracks (B6)
Surface Water (A1)	13) Sparsely Vegetated Concave Surface (B8)
High Water Table (A2)	I5) (LRR U) V Drainage Patterns (B10)
Saturation (A3)	Odor (C1) Moss Trim Lines (B16)
Water Marks (B1) Vidized Rhizosph	heres along Living Roots (C3) Dry Season Water Table (C2)
Sediment Deposits (B2)	uced Iron (C4) Crayfish Burrows (C8)
Drift Deposits (B3)	action in Tilled Soils (C6) Saturation Visible on Aerial Imagery (C9)
Algal Mat or Crust (B4)	e (C7) Geomorphic Position (D2)
U Iron Deposits (B5) U Other (Explain in	Remarks) Shallow Aquitard (D3)
Inundation Visible on Aerial Imagery (B7)	FAC-Neutral Test (D5)
U Water-Stained Leaves (B9)	Sphagnum moss (D8) (LRR T, U)
Field Observations:	
Surface water Present? Tes C INO C Depth (Inches):	
Water Table Present? Yes ○ No ● Depth (inches):	Wetland Hydrology Present? Yes • No
Saturation Present? Yes O No O Depth (inches):	
Describe Recorded Data (stream gauge, monitoring well, aerial phot	os, previous inspections), if available:

VEGETATION	(Five/Four Strata) -	Use scientific names of p	plants.
------------	-------------------	-----	---------------------------	---------

		D	ominant		Sampling Point: 10
	Absolute	e R	el.Strat.	Indicator	Dominance Test worksheet:
Tree Stratum (Plot size: <u>30</u>)	% Cove	r	Cover	Status	Number of Dominant Species
1. Pinus taeda	60	✓	66.7%	FAC	That are OBL, FACW, or FAC: <u>8</u> (A)
2. Acer rubrum	20	✓	22.2%	FAC	Total Number of Dominant
3. Liquidambar styraciflua	10		11.1%	FAC	Species Across All Strata: <u>8</u> (B)
4	0		0.0%		
5	0		0.0%		Percent of dominant Species
6	0		0.0%		
7	0		0.0%		Prevalence Index worksheet:
8	0		0.0%		Total % Cover of: Multiply by:
50% of Total Cover:45 20% of Total Cover:18	90	= T	otal Cove	r	OBL species x 1 =
Sapling or Sapling/Shrub Stratum (Plot size: 30)				FACW species $0 \times 2 = 0$
1. Quercus nigra	25	✓	71.4%	FAC	FAC species 185 x 3 =555
2. Acer rubrum	10	✓	28.6%	FAC	FACU species $0 \times 4 = 0$
3.	0		0.0%		$ \mathbf{P} \text{ specilles } = 0 \text{ x } 5 = 0$
4.	0		0.0%		$\begin{array}{c} 1 \\ 1 \\ 1 \\ 2 \\ 2 \\ 2 \\ 2 \\ 2 \\ 2 \\ 2 \\$
5.	0		0.0%		
6	0		0.0%		Prevalence Index = B/A = <u>3.000</u>
7.	0		0.0%		Hydrophytic Vegetation Indicators:
8.	0		0.0%		
50% of Total Cover: 17.5 20% of Total Cover: 7	35	– т	otal Cove	-	1 - Rapid Test for Hydrophytic Vegetation
				I	
Shrub Stratum (Plot size: <u>30</u>)					\checkmark 3 - Prevalence Index is ≤3.0 ¹
1 Ligustrum sinense	10		100.0%	FAC	Problematic Hydrophytic Vegetation ¹ (Explain)
2	0		0.0%		
3	0		0.0%		Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
4	0		0.0%		
5	0		0.0%		Definition of Vegetation Strata:
6	0		0.0%	- <u></u>	Tree - Woody plants, excluding woody vines,
50% of Total Cover: 20% of Total Cover:	10	= T	otal Cove	r	(7.6 cm) or larger in diameter at breast height (DBH).
Herb Stratum ^(Plot size: <u>30</u>)					
1. Toxicodendron radicans	15	~	42.9%	FAC	Sapling - Woody plants, excluding woody vines,
2. Rubus argutus	20	V	57.1%	FAC	approximately 20 ft (6 m) or more in height and less
3	0		0.0%		
4	0		0.0%		Sapling/Shrub - Woody plants, excluding vines, less
5	0		0.0%		than 3 in. DBH and greater than 3.28 ft (1m) tall.
6			0.0%		
7.	0		0.0%		approximately 3 to 20 ft (1 to 6 m) in height.
8.	0		0.0%		
9.	0		0.0%		Herb - All herbaceous (non-woody) plants, including
10.	0		0.0%		herbaceous vines, regardless of size, and woody
11.			0.0%		3 ft (1 m) in height.
12.			0.0%		
50% of Total Cover: 17.5 20% of Total Cover: 7	- <u> </u>		otal Cove		Woody vine - All woody vines, regardless of height.
		- 1			
Woody Vine Stratum (Plot size: 30)					
1. Campsis radicans	15		100.0%	FAC	
2	0		0.0%		
3	0		0.0%	·	
4	0		0.0%		Hydrophytic
5	0	L	0.0%		Vegetation
50% of Total Cover: <u>7.5</u> 20% of Total Cover: <u>3</u>	15	= T	otal Cove	r	Present? Yes $ullet$ No $igcup$
Remarks: (If observed, list morphological adaptations below)					1
ist morphological adaptations below).					
*Indicator suffix = National status or professional decision assigned because F	Regional status	s not	defined by F	WS.	

Profile Descr	iption: (De	scribe to	the depth	needed to	document	the indic	ator or co	nfirm the	absence of indicators.)			
Depth		Matrix			Re	dox Featu	res		_			
(inches)	Color (moist)	%	Color (moist)	%	Tvpe	Loc ²	Texture	Remarks		
	10YR	4/1	100						Silt Loam			
4-11	10YR	5/2	95	10YR	4/4	5	RM	М	Silt Loam			
11-16	10YR	6/1	85	10YR	5/8	15	RM	М	Silt Loam			
		-										
1	-		-	-								
E		- <u>-</u>		-								
			·									
	centration D	=Depletio	n RM=Red	uced Matrix	CS=Covere	ed or Coate	d Sand Gra	ins 21 oca	ation: PL=Pore Lining M=	Matrix		
Hydric Soil I	ndicators:	Bepletio			00-001010				Indiastars for Drak	elementia Undria Solla ³		
Histosol (/	A1)			Pol	vvalue Beli	ow Surface	(S8) (I RR	S. T. U)				
	, pedon (A2)				n Dark Sur	face (S9) (0, 1, 0) I)				
Black Hist	ic (A3)				my Mucky	Mineral (F	1) (I RR O)	·)		(LRR S)		
Hvdrogen	Sulfide (A4)				amy Glever	Matrix (E2))			(F18) (OUTSIDE MLRA 150A,B)		
Stratified	Lavers (A5)				niny Oleyet	riv (F3)	-)		Piedmont Flood	Diain Soils (F19) (LRR P, S, T)		
Organic B	odies (A6) (L	RR P. T. I	J)		hov Dark S	urfaco (E6)			Anomalous Brigh	ht Loamy Soils (F20) (MLRA 153B)		
	ky Mineral (A	7) (LRR P	. T. U)		olotod Darl	k Surface (10)	E7)		Red Parent Mate			
	sence (A8) (I	RR U)	, ., _,				/)		Very Shallow Da	rk Surface (TF12)		
	k (A9) (LRR	Р. Т)			rl (E10) (L				Other (Explain ir Control of the second s	Remarks)		
	Below Dark S	Surface (A	11)		nleted Och	ric (F11) (N	/I RA 151)					
Thick Dar	k Surface (A1	12)	,		n-Mangane		(E12) (I DE	О Р Т)				
Coast Prai	irie Redox (A	.16) (MLRA	150A)		bric Surfac	50 (F13) (LI		. 0, 1 , 1)				
Sandy Mu	ick Mineral (S	51) (LRR C). S)		ta Ochric ((F17) (MI D	Λ 151)					
Sandy Gle	eved Matrix (S4)	, _,			ic (F18) (M		150B)	³ Indicators	s of hydrophytic vegetation and		
Sandy Reg	dox (S5)	.,			dmont Flor	nc (i io) (ivi adalain Sail	c (E10) (MI	DA 140A)	wetland hydrology must be present,			
Stripped N	Matrix (S6)					right Loam	2 (1 1 7) (1011	_RA 147A)) (MIDA 14		s disturbed of problematic.		
Dark Surfa	ace (S7) (LRF	R Р. S. T. I	U)		JIIIdiuus di		/ 3011S (F20) (IVILKA 14	9A, 155C, 155D)			
		, , , ,	- /									
Restrictive La	ayer (if obs	erved):										
Type:	hos):								Hydric Soil Present?	Yes 🔍 No 🔾		
Deptil (Inci	nes).											
Remarks:												

Project/Site: Coburn Lakes Subdivision	City/County: Tangipahoa Sampling Date: 25-Oct-16
Applicant/Owner: Robert Maurin	State: LA Sampling Point: 11
nvestigator(s): Hydrik-Kelly Turk	Section, Township, Range: S 21 T 6 S R 8 E
andform (hillslope, terrace, etc.): Flat	Local relief (concave, convex, none): None Slope: 0.0 % / 0.0 °
Subregion (LRR or MLRA): MLRA 133A in LRR P Lat.:	30.505851 Long.: -90,405470 Datum: WGS84
Goil Map Unit Name: (Aa) Abita silt Ioam, 0-2% slopes	NWI classification: None
Are climatic/hydrologic conditions on the site typical for this time of year	ar? Yes No (If no, explain in Remarks.)
Are Vegetation , Soil , or Hydrology significant	ly disturbed? Are "Normal Circumstances" present? Yes • No
Are Vegetation Soil or Hydrology naturally p	roblematic? (If needed, explain any answers in Demarks)
SUMMARY OF FINDINGS - Attach site map showing sa	mpling point locations, transects, important features, etc.
Hydrophytic Vegetation Present?YesNoHydric Soil Present?YesNoWetland Hydrology Present?YesNo	Is the Sampled Area within a Wetland? Yes O No O
Remarks: Plot located in an upland mixed pine/hardwood habitat.	
Primary Indicators (minimum of one required: check all that apply)	Secondary Indicators (minimum of 2 required)
Surface Water (A1)	3) Surface Soli Cracks (B6) Sparsely Vegetated Concave Surface (B8)
High Water Table (A2)	5) (LRR U) Drainage Patterns (B10)
Saturation (A3)	Odor (C1) Moss Trim Lines (B16)
Water Marks (B1)	eres along Living Roots (C3) Dry Season Water Table (C2)
Sediment Deposits (B2)	ced Iron (C4) Crayfish Burrows (C8)
Drift Deposits (B3) Recent from Reduct Algal Mat or Cruct (P4) This Muck Surface	Clon in Tilled Solis (Co) Saturation Visible on Aerial Imagery (C9)
	(C7) Geomorphic Position (D2)
Inundation Visible on Aerial Imagery (B7)	FAC-Neutral Test (D5)
Water-Stained Leaves (B9)	Sphagnum moss (D8) (LRR T, U)
Field Observations:	
Surface Water Present? Yes O No O Depth (inches):	
Water Table Present? Yes No O Depth (inches):	
Saturation Present? Ves No Depth (inches):	Wetland Hydrology Present? Yes O No 🔍
(includes capillary fringe)	
Remarks:	

VEGETATION (Five/Four Strata) - Use scientific names of plants.

	Dominant				Sampling Point: 11
	Absolute	3 ; R	el.Strat.	Indicator	Dominance Test worksheet:
<u>Tree Stratum</u> (Plot size: <u>30</u>)	% Cover	r	Cover	Status	Number of Dominant Species
1. Pinus taeda	35	✓	53.8%	FAC	That are OBL, FACW, or FAC:7(A)
2. Quercus nigra	15	✓	23.1%	FAC	
3. Prunus serotina	15	✓	23.1%	FACU	Total Number of Dominant
4		\square	0.0%		Species Across All Strata. <u>10</u> (b)
5	0	\square	0.0%		Percent of dominant Species
6			0.0%		That Are OBL, FACW, or FAC:
7			0.0%		
0			0.070		
			0.0%		Iotal % Cover of: Multiply by:
50% of 10tal Cover: 32.5 20% of 10tal Cover: 13	65	= 10	otal Covel	r	UBL species $0 \times 1 = 0$
Sapling or Sapling/Shrub Stratum (Plot size: 30	_)				FACW species x 2 =
1. Ligustrum sinense	40		61.5%	FAC	FAC speci es 150 x 3 = 450
2. Ilex vomitoria	25	✓	38.5%	FAC	FACU species40x 4 =160
3	0		0.0%		UPL species x 5 =0
4	0		0.0%		Column Totals: 190 (A) 610 (B)
5	0		0.0%		
6	0		0.0%		Prevalence Index = B/A = <u>3.211</u>
7.	0		0.0%		Hydrophytic Vegetation Indicators:
8	0	\square	0.0%		
COV of Total Covery 22 5 20% of Total Covery 12		т.	atal Cause		□ 1 - Rapid Test for Hydrophytic Vegetation
50% of 10tal cover: <u>32.5</u> 20% of 10tal cover: <u>13</u>	65	= 10	otal Covel	r	✓ 2 - Dominance Test is > 50%
Shrub Stratum (Plot size: <u>30</u>)					3 - Prevalence Index is ≤3.0 1
1. Ardisia crenata	15	✓	60.0%	FAC	Problematic Hydrophytic Vegetation ¹ (Explain)
2. <u>Callicarpa americana</u>	10	✓	40.0%	FACU	
3	0		0.0%		¹ Indicators of hydric soil and wetland hydrology must
4.	0		0.0%		be present, unless disturbed or problematic.
5	0	\square	0.0%		Definition of Vegetation Strata:
6		\square	0.0%		Tree - Woody plants, excluding woody vines.
50% of Total Cover: 12.5 20% of Total Cover: 5	25	= To	otal Cove		approximately 20 ft (6 m) or more in height and 3 in.
					(7.6 cm) or larger in diameter at breast height (DBH).
<u>Herb Stratum</u> (Plot size: <u>30</u>)					Sopling Woody planta evaluding woody vince
1. Lygodium japonicum	10	✓	40.0%	FAC	approximately 20 ft (6 m) or more in height and less
2. Lonicera japonica	15	✓	60.0%	FACU	than 3 in. (7.6 cm) DBH.
3	0		0.0%		
4	0		0.0%		Sapling/Shrub - Woody plants, excluding vines, less
5	0		0.0%		than 3 in. DBH and greater than 3.28 ft (1m) tall.
6.	0		0.0%		Shrub Woody plants, excluding woody vines
7.	0		0.0%		approximately 3 to 20 ft (1 to 6 m) in height.
8.	0		0.0%		
9	0		0.0%		Herb - All herbaceous (non-woody) plants, including
10	- <u> </u>		0.0%		herbaceous vines, regardless of size, and woody
11			0.0%		plants, except woody vines, less than approximately 3 ft (1 m) in height
12			0.0%		
			0.0%		Woody vine - All woody vines, regardless of height
50% of Total Cover: <u>12.5</u> 20% of Total Cover: <u>5</u>	25	= To	otal Cove	r	The set of
Woody Vine Stratum (Plot size: 30)					
1. Toxicodendron radicans	10	✓	100.0%	FAC	
2.	0		0.0%	-	
3	0		0.0%		
4.	0		0.0%		
5	0		0.0%		Hydrophytic
50% of Total Cover: 5 20% of Total Cover: 3	10	_ T	atal Cove		vegetation Present? Yes I No
		- 10			
Remarks: (If observed, list morphological adaptations below).					
the discharge office Netheral to the transformed of	t		-l	WC	
mulcator suffix = national status or professional decision assigned because Re	egional status	not	uerined by F	VV5.	

Profile Description: (Describ	e to the depth	needed to document	the indicator or co	nfirm the a	absence of indicators)
Depth Mat	rix	Ree	dox Features		-	
(inches) Color (mois	st) <u>%</u>	Color (moist)	<u>%</u> 1	Loc ²	Texture	Remarks
0-5 10YR 5	/3 100				Silt Loam	
5-16 10YR 5	/4 100				Silt Loam	
						annan P
·					-	
		·				
					tion DL Done Lining M	Na tuiu
Type: C=Concentration. D=Dep	Dietion. RIVI=Real	ced Matrix, CS=Covere	ed or Coated Sand Gra	Ins ² Loca	tion: PL=Pore Lining. M	=Matrix
					Indicators for Pro	oblematic Hydric Soils ³ :
		Polyvalue Belo	ow Surface (S8) (LRR	S, I, U)	1 cm Muck (A9) (LRR O)
		Thin Dark Sur	face (S9) (LRR S, T, U)	2 cm Muck (A1	0) (LRR S)
		Loamy Mucky	Mineral (F1) (LRR O)		Reduced Vertic	: (F18) (outside MLRA 150A,B)
		Loamy Gleyed	1 Matrix (F2)		Piedmont Floor	dplain Soils (F19) (LRR P, S, T)
Stratified Layers (A5)		Depleted Matr	rix (F3)		Anomalous Bri	ght Loamy Soils (F20) (MLRA 153B)
Organic Bodies (A6) (LRR P	, I, U)	Redox Dark S	urface (F6)		Red Parent Ma	terial (TF2)
5 cm Mucky Mineral (A7) (L	.RR P, T, U)	Depleted Dark	k Surface (F7)		Very Shallow D	ark Surface (TF12)
Muck Presence (A8) (LRR U))	Redox Depres	ssions (F8)		Other (Explain	in Remarks)
1 cm Muck (A9) (LRR P, 1)		☐ Marl (F10) (LF	RR U)			
Depleted Below Dark Surface	ce (A11)	Depleted Och	ric (F11) (MLRA 151)			
Thick Dark Surface (A12)		Iron-Mangane	ese Masses (F12) (LRR	O, P, T)		
Coast Prairie Redox (A16) (MLRA 150A)	Umbric Surfac	ce (F13) (LRR P, T, U)			
Sandy Muck Mineral (S1) (L	.RR O, S)	Delta Ochric (F17) (MLRA 151)		³ Indicato	rs of hydrophytic vegetation and
Sandy Gleyed Matrix (S4)		Reduced Verti	ic (F18) (MLRA 150A,	150B)	wetlan	d hydrology must be present,
Sandy Redox (S5)		Piedmont Floo	odplain Soils (F19) (ML	RA 149A)	unle	ess disturbed or problematic.
Stripped Matrix (S6)		Anomalous Br	ight Loamy Soils (F20)	(MLRA 149	9A, 153C, 153D)	
Dark Surface (S7) (LRR P, S	S, T, U)					
Restrictive Layer (if observe	d):					
Туре:	-					
Depth (inches):					Hydric Soil Present	? Yes 🔾 No 🖲
Remarks:						
Remarks.						

Project/Site: Coburn Lakes Subdivision	City/County: Tangipahoa Sampling Date: 25-Oct-16
Applicant/Owner: _ Robert Maurin	State: LA Sampling Point: 12
Investigator(s): _Hydrik-Kelly Turk	Section, Township, Range: S 28 T 6 S R 8 E
Landform (hillslope, terrace, etc.): Flat	Local relief (concave, convex, none): concave Slope: 4.0 % / 2.3 °
Subregion (LRR or MLRA): MLRA 133A in LRR P Lat.:	30 504485 Long.: -90 405674 Datum: WGS84
Soil Map Unit Name: (Go) Guyton silt loam, 0-1% slopes, rarely flooded	d NWL classification: None
Are climatic/hydrologic conditions on the site typical for this time of yea	r^2 Yes Θ No O (If no explain in Remarks)
Are Vegetation Soil or Hydrology significant	Iv disturbed? Are "Normal Circumstances" present? Yes \odot No \bigcirc
SUMMARY OF FINDINGS - Attach site map showing sar	mpling point locations, transects, important features, etc.
Hydrophytic Vegetation Present? Yes ● No ○ Hydric Soil Present? Yes ● No ○ Wetland Hydrology Present? Yes ● No ○	Is the Sampled Area within a Wetland? Yes No
Remarks: Plot located in a mixed pine/hardwood wetland habitat.	
Wetland Hydrology Indicators: Primary Indicators (minimum of one required; check all that apply) Surface Water (A1) Aquatic Fauna (B1) High Water Table (A2) Marl Deposits (B15) Saturation (A3) Hydrogen Sulfide C Water Marks (B1) Oxidized Rhizosphe Sediment Deposits (B2) Presence of Reduct Drift Deposits (B3) Recent Iron Reduct Algal Mat or Crust (B4) Thin Muck Surface Iron Deposits (B5) Other (Explain in F Inundation Visible on Aerial Imagery (B7) Water-Stained Leaves (B9)	Secondary Indicators (minimum of 2 required) Surface Soil Cracks (B6) 3) Sparsely Vegetated Concave Surface (B8) 5) (LRR U) Drainage Patterns (B10) Odor (C1) Moss Trim Lines (B16) eres along Living Roots (C3) Dry Season Water Table (C2) ced Iron (C4) ✓ Crayfish Burrows (C8) ction in Tilled Soils (C6) Saturation Visible on Aerial Imagery (C9) e (C7) Geomorphic Position (D2) Remarks) Shallow Aquitard (D3) ✓ FAC-Neutral Test (D5) Sphagnum moss (D8) (LRR T, U)
Surface Water Present? Yes No Depth (inches): Water Table Present? Yes No Depth (inches): Saturation Present? Yes No Depth (inches): (includes capillary fringe) Yes No Depth (inches):	Wetland Hydrology Present? Yes No
Remarks:	js, previous inspections), it available:

VEGETATION (Five/Four Strata) -	Use scientific names of	plants.
-------------------------------------	-----	-------------------------	---------

		Dominant		Sampling Point: 12
	Absolute	Rel.Strat.	Indicator	Dominance Test worksheet:
Tree Stratum (Plot size:)	<u>% Cover</u>		Status	Number of Dominant Species
Quercus laurinolia Q Dipus taeda	- <u>55</u>	 ✓ 55.0% ✓ 20.0% 	FACW	That are OBL, FACW, or FAC: <u>8</u> (A)
3 Acer rubrum		15.0%		Total Number of Dominant
A Nyssa svivatica	_ <u>10</u>	10.0%	FAC	Species Across All Strata:8(B)
5	0	0.0%	140	Percent of dominant Species
6		0.0%		That Are OBL, FACW, or FAC:(A/B)
7.	0	0.0%		Prevalence Index worksheet:
8.	0	0.0%		Total % Cover of Multiply by
50% of Total Cover: 50 20% of Total Cover: 20	100	= Total Cover		OBL speci es $15 \times 1 = 15$
Sapling or Sapling/Shrub Stratum (Plot size: 30)			FACW species 55 x 2 = 110
1. Triadica sebifera	20	✔ 36.4%	FAC	FAC species <u>125</u> x 3 = <u>375</u>
2. Acer rubrum	20	36.4%	FAC	FACU species $0 \times 4 = 0$
3. Morella cerifera	15	✔ 27.3%	FAC	UPL species $0 \times 5 = 0$
4	0	0.0%		$\begin{array}{c} \mathbf{Colump Totals} & 195 \textbf{(A)} & 500 \textbf{(B)} \end{array}$
5	0	0.0%		
6	0	0.0%		Prevalence Index = $B/A = 2.564$
7	0	0.0%		Hydrophytic Vegetation Indicators:
8	0	0.0%		1 - Rapid Test for Hydrophytic Vegetation
50% of Total Cover:27.520% of Total Cover:11	55	= Total Cover		\checkmark 2 - Dominance Test is > 50%
Shrub Stratum (Plot size:)				\checkmark 3 - Prevalence Index is $\leq 3.0^{1}$
1	0	0.0%		\square Problematic Hydrophytic Vegetation ¹ (Explain)
2	0	0.0%		
3.	0	0.0%		¹ Indicators of hydric soil and wetland hydrology must
4.	0	0.0%		be present, unless disturbed or problematic.
5.	0	0.0%		Definition of Vegetation Strata:
6.	0	0.0%		Tree - Woody plants, excluding woody vines,
50% of Total Cover: 0 20% of Total Cover: 0	0	= Total Cover	-	approximately 20 ft (6 m) or more in height and 3 in.
Herb Stratum (Plot size: <u>30</u>)				
1. Woodwardia areolata	15	✔ 60.0%	OBL	Sapling - Woody plants, excluding woody vines,
2. Gelsemium sempervirens	10	✔ 40.0%	FAC	approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH.
3.	0	0.0%		
4.	0	0.0%		Sapling/Shrub - Woody plants, excluding vines, less
5.	0	0.0%		than 3 in. DBH and greater than 3.28 ft (1m) tall.
6	0	0.0%		Shrub - Woody plants, excluding woody vines
7	0	0.0%		approximately 3 to 20 ft (1 to 6 m) in height.
8	0	0.0%		
9	0	0.0%		Herb - All herbaceous (non-woody) plants, including
10	0	0.0%		plants, except woody vines, less than approximately
11	0	0.0%		3 ft (1 m) in height.
12	0	0.0%		
50% of Total Cover: <u>12.5</u> 20% of Total Cover: <u>5</u>	25	= Total Cover		Woody vine - All woody vines, regardless of height.
Woody Vine Stratum (Plot size: 30)				
1. Campsis radicans	15	✔ 100.0%	FAC	
2	0	0.0%		
3	0	0.0%		
4	0	0.0%		
5	0	0.0%		Hydrophytic Vegetation
50% of Total Cover: 7.5 20% of Total Cover: 3	15	= Total Cover		Present? Yes $ullet$ No $igcup$
Remarks: (If observed, list morphological adaptations below)				1
the discharge office. Making all shakes any first shakes in the state of the state		wet define the mo	NG	
^Indicator suffix = National status or professional decision assigned because Re	egional status	not defined by FV	VS.	

SO	IL
----	----

Color (moist) % Color (moist) % True Remarks 0-6 10YR 4/1 100 Silt Loam Silt Loam 6-16 10YR 5/1 90 10YR 5/6 10 RM M Silt Loam 6-16 10YR 5/1 90 10YR 5/6 10 RM M Silt Loam 6-16 10YR 5/1 90 10YR 5/6 10 RM M Silt Loam 6-16 10YR 5/1 90 10YR 5/6 10 RM M Silt Loam 6-16 10YR 5/1 90 10YR 5/6 10 RM Silt Loam 9 10YR 5/6 10 RM Silt Loam
6-16 10YR 5/1 90 10YR 5/6 10 RM M Silt Loam 9 90 10YR 5/6 10 RM M Silt Loam 9 9 10YR 5/6 10 RM M Silt Loam 9 9 9 10YR 5/6 10 RM M Silt Loam 9 9 10YR 5/6 10 RM M Silt Loam 9 9 10YR 5/6 10 RM M Silt Loam 9 9 10 Mtax 10 Polyalue Below Surface (S8) (LRR S, T, U) 10 Indicators for Problematic Hydric Soils ³ : 1 Histosol (A1) 10 Polyalue Below Surface (S9) (LRR S, T, U) 10 Indicators for Problematic Hydric Soils ³ : 1 10 Muck Mineral (F1) (LRR O) 10 Indicators for Problematic Hydric Soils (F10) Indicators for Problematic Hydric Soils (F20) (MLRA 150A, I) 10 Polyalue Below Surface (F11) 10 Reduced Vertic (F18) (outside MLRA 150A, I) Indicators of hydrophydic Networks Surface (F12) Indicators of hydrophydic Networksof
pe: C=Concentration. D=Depletion. RM=Reduced Matrix, CS=Covered or Coated Sand Grains ² Location: PL=Pore Lining. M=Matrix Indicators: Indicators for Problematic Hydric Soils ³ : Histosol (A1) Polyvalue Below Surface (S8) (LRR S, T, U) 1 cm Muck (A9) (LRR O) Histic (A2) Thin Dark Surface (S9) (LRR S, T, U) 2 cm Muck (A10) (LRR S) Black Histic (A3) Loamy Mucky Mineral (F1) (LRR O) Reduced Vertic (F18) (outside MLRA 150A, I Hydrogen Sulfide (A4) Loamy Gleyed Matrix (F2) Piedmont Floodplain Soils (F19) (MLRA 150A, I Organic Bodies (A6) (LRR P, T, U) Redox Dark Surface (F6) Red Parent Material (TF2) 5 cm Muck (A9) (LRR P, T, U) Depleted Dark Surface (F7) Very Shallow Dark Surface (TF12) Muck Presence (A8) (LRR P, T) Medit (F10) (LRR U) Depleted Octric (F11) (MLRA 151) Thick Dark Surface (A11) Depleted Octric (F11) (LRR O, P, T) Cost Praine Redox (A16) (MLRA 150A) Sandy Redox (S5) Detard Chric (F17) (MLRA 150A, 150B) ³ Indicators of hydrophylic vegetation wetland hydrology must be present unless disturbed or problematic. Stripped Matrix (S6) Anomalous Bright Loamy Soils (F20) (MLRA 149A, 153C, 153D) Darksurface (S7) (LRR P, S, T, U)
Histic Epipedon (A2) Thin Dark Surface (S9) (LRR S, T, U) 2 cm Muck (A9) (LRR O) Black Histic (A3) Loamy Mucky Mineral (F1) (LRR O) Reduced Vertic (F18) (outside MLRA 150A,I Hydrogen Sulfide (A4) Loamy Gleyed Matrix (F2) Piedmont Floodplain Soils (F19) (LRR P, S, S) Stratified Layers (A5) Depleted Matrix (F3) Anomalous Bright Loamy Soils (F20) (MLRA Organic Bodies (A6) (LRR P, T, U) Redox Dark Surface (F6) Red Parent Material (TF2) 5 cm Mucky Mineral (A7) (LRR P, T, U) Depleted Dark Surface (F7) Very Shallow Dark Surface (TF12) Muck Presence (A8) (LRR V, T) Redox Depressions (F8) Other (Explain in Remarks) 1 cm Muck (A9) (LRR P, T) Marl (F10) (LRR U) Depleted Ochric (F11) (MLRA 151) Thick Dark Surface (A11) Depleted Ochric (F11) (MLRA 151) Thon-Manganese Masses (F12) (LRR O, P, T) Coast Prairie Redox (A16) (MLRA 150A) Umbric Surface (F13) (LRR P, T, U) 3 Sandy Muck Mineral (S1) (LR O, S) Delta Ochric (F17) (MLRA 150A, 150B) 3 Sandy Redox (S5) Piedmont Floodplain Soils (F20) (MLRA 149A) unless disturbed or problematic. Stripped Matrix (S6) Anomalous Bright Loamy Soils (F20) (MLRA 149A, 153C, 153D) Dark Surface (S7) (LRR P, S, T, U)
Black Histic (A3) Loamy Mucky Mineral (F1) (LRR O) Reduced Vertic (F18) (outside MLRA 150A,I Hydrogen Sulfide (A4) Loamy Gleyed Matrix (F2) Piedmont Floodplain Soils (F19) (LRR P, S, S Stratified Layers (A5) Depleted Matrix (F3) Anomalous Bright Loamy Soils (F20) (MLRA P, S, S Organic Bodies (A6) (LRR P, T, U) Redox Dark Surface (F6) Red Parent Material (TF2) 5 cm Mucky Mineral (A7) (LRR P, T, U) Depleted Dark Surface (F7) Very Shallow Dark Surface (TF12) Muck Presence (A8) (LRR U) Redox Depressions (F8) Other (Explain in Remarks) 1 cm Muck (A9) (LRR P, T) Marl (F10) (LRR U) Depleted Ochric (F11) (MLRA 151) Depleted Below Dark Surface (A11) Depleted Ochric (F13) (LRR O, P, T) Other (Explain in Remarks) 1 cm Muck (A9) (LRR P, G, S) Depleted Ochric (F13) (LRR O, P, T) Other (Explain in Remarks) Sandy Muck Mineral (S1) (LRR O, S) Delta Ochric (F17) (MLRA 151) 3Indicators of hydrophytic vegetation wetland hydrology must be present unless disturbed or problematic. Stripped Matrix (S6) Piedmont Floodplain Soils (F20) (MLRA 149A) unless disturbed or problematic. Dark Surface (S7) (LRR P, S, T, U) Piedmont Floodplain Soils (F20) (MLRA 149A, 153C, 153D) Dark Surface (S7) (LRR P, S, T, U)
Hydrogen Sulfide (A4) Loamy Gleyed Matrix (F2) Piedmont Floodplain Soils (F19) (LRR P, S, S Stratified Layers (A5) Depleted Matrix (F3) Anomalous Bright Loamy Soils (F20) (MLRA P, S, S Organic Bodies (A6) (LRR P, T, U) Redox Dark Surface (F6) Red Parent Material (TF2) 5 cm Mucky Mineral (A7) (LRR P, T, U) Depleted Dark Surface (F7) Very Shallow Dark Surface (TF12) Muck Presence (A8) (LRR U) Redox Depressions (F8) Other (Explain in Remarks) 1 cm Muck (A9) (LRR P, T) Marl (F10) (LRR U) Depleted Ochric (F11) (MLRA 151) Depleted Below Dark Surface (A11) Depleted Ochric (F11) (MLRA 151) Other (Explain in Remarks) Thick Dark Surface (A12) Iron-Manganese Masses (F12) (LRR O, P, T) Ocast Prairie Redox (A16) (MLRA 150A) Sandy Gleyed Matrix (S4) Reduced Vertic (F18) (MLRA 150A, 150B) ³ Indicators of hydrophytic vegetation wetland hydrology must be present unless disturbed or problematic. Stripped Matrix (S6) Piedmont Floodplain Soils (F20) (MLRA 149A) unless disturbed or problematic. Dark Surface (S7) (LRR P, S, T, U) Anomalous Bright Loamy Soils (F20) (MLRA 149A, 153C, 153D)
Depleted Below Dark Surface (A11) Depleted Ochric (F11) (MLRA 151) Thick Dark Surface (A12) Iron-Manganese Masses (F12) (LRR O, P, T) Coast Prairie Redox (A16) (MLRA 150A) Umbric Surface (F13) (LRR P, T, U) Sandy Muck Mineral (S1) (LRR O, S) Delta Ochric (F17) (MLRA 151) Sandy Gleyed Matrix (S4) Reduced Vertic (F18) (MLRA 150A, 150B) Sandy Redox (S5) Piedmont Floodplain Soils (F19) (MLRA 149A) Stripped Matrix (S6) Anomalous Bright Loamy Soils (F20) (MLRA 149A, 153C, 153D) Dark Surface (S7) (LRR P, S, T, U) Stripped Matrix (S6)
Thick Dark Surface (A12) Iron-Manganese Masses (F12) (LRR O, P, T) Coast Prairie Redox (A16) (MLRA 150A) Umbric Surface (F13) (LRR P, T, U) Sandy Muck Mineral (S1) (LRR O, S) Delta Ochric (F17) (MLRA 151) Sandy Gleyed Matrix (S4) Reduced Vertic (F18) (MLRA 150A, 150B) Sandy Redox (S5) Piedmont Floodplain Soils (F19) (MLRA 149A) Stripped Matrix (S6) Anomalous Bright Loamy Soils (F20) (MLRA 149A, 153C, 153D)
Coast Prairie Redox (A16) (MLRA 150A) Umbric Surface (F13) (LRR P, T, U) Sandy Muck Mineral (S1) (LRR O, S) Delta Ochric (F17) (MLRA 151) Sandy Gleyed Matrix (S4) Reduced Vertic (F18) (MLRA 150A, 150B) Sandy Redox (S5) Piedmont Floodplain Soils (F19) (MLRA 149A) Stripped Matrix (S6) Anomalous Bright Loamy Soils (F20) (MLRA 149A, 153C, 153D) Dark Surface (S7) (LRR P, S, T, U)
Sandy Muck Mineral (S1) (LRR O, S) Delta Ochric (F17) (MLRA 151) Indicators of hydrophytic vegetation wetland hydrology must be present unless disturbed or problematic. Sandy Redox (S5) Piedmont Floodplain Soils (F19) (MLRA 149A) unless disturbed or problematic. Stripped Matrix (S6) Anomalous Bright Loamy Soils (F20) (MLRA 149A, 153C, 153D) unless disturbed or problematic.
Sandy Gleyed Matrix (S4) Reduced Vertic (F18) (MLRA 150A, 150B) Wetland hydrology must be present wetland hydrology must be present unless disturbed or problematic. Sandy Redox (S5) Piedmont Floodplain Soils (F19) (MLRA 149A) unless disturbed or problematic. Stripped Matrix (S6) Anomalous Bright Loamy Soils (F20) (MLRA 149A, 153C, 153D) Dark Surface (S7) (LRR P, S, T, U) Anomalous Bright Loamy Soils (F20) (MLRA 149A, 153C, 153D)
Salidy Redox (S5) Piedmont Floodplain Soils (F19) (MLRA 149A) unless disturbed or problematic. Stripped Matrix (S6) Anomalous Bright Loamy Soils (F20) (MLRA 149A, 153C, 153D) Dark Surface (S7) (LRR P, S, T, U)
Julipped Matrix (30) L Anomalous Bright Loamy Soils (F20) (WLRA 149A, 153C, 153D) Dark Surface (S7) (LRR P, S, T, U)
estrictive Layer (if observed):
Depth (inches):

Project/Site: Coburn Lakes Subdivision	City/County: Tangipahoa Sampling Date: 25-Oct-16
Applicant/Owner: _ Robert Maurin	State: LA Sampling Point: 13
Investigator(s): Hydrik-Kelly Turk	_ Section, Township, Range: S 28 T 6 S R 8 E
Landform (hillslope, terrace, etc.): Flat	Local relief (concave, convex, none): None Slope: 6.0 % / 3.4 °
Subregion (LRR or MLRA): MLRA 133A in LRR P Lat.:	30 499342 Long.: -90 406210 Datum: WGS84
Soil Man Unit Name: (G0) Guyton silt loam. 0-1% slopes, rarely floode	ed
Are climatic /budrologic conditions on the site typical for this time of yo	$\frac{1}{10000000000000000000000000000000000$
Are Vegetation Soil or Hydrology conditions on the site typical for this time of ye	
	Are "Normal Circumstances" present?
Are Vegetation, Soil, or Hydrology naturally	problematic? (If needed, explain any answers in Remarks.)
SUMMARY OF FINDINGS - Attach site map showing sa	ampling point locations, transects, important features, etc.
Hydrophytic Vegetation Present? Yes $ullet$ No $igodot$	Is the Sampled Area
Hydric Soil Present? Yes O No 🖲	$Yes \bigcirc No \textcircled{O}$
Wetland Hydrology Present? Yes O No 🔍	within a wetland?
Remarks:	
Plot taken in an upland mixed pine/ hardwood area.	
HYDROLOGY	
Wetland Hydrology Indicators:	Secondary Indicators (minimum of 2 required)
Primary Indicators (minimum of one required; check all that apply)	Surface Soil Cracks (B6)
Surface Water (A1)	I13) Sparsely Vegetated Concave Surface (B8)
High Water Table (A2)	15) (LRR U) Drainage Patterns (B10)
Saturation (A3)	Hodor (C1) Moss Trim Lines (B16)
U Water Marks (B1)	heres along Living Roots (C3) Dry Season Water Table (C2)
Sediment Deposits (B2) Presence of Redu	Leed Iron (C4) Craytish Burrows (C8)
Algal Mat or Crust (B4)	co (C7) Saturation Visible on Aerial Imagery (C9)
Iron Deposits (B5)	Demarks)
Inundation Visible on Aerial Imagery (B7)	FAC-Neutral Test (D5)
Water-Stained Leaves (B9)	Sphagnum moss (D8) (LRR T, U)
Field Observations:	
Surface Water Present? Yes O No O Depth (inches):	:
Water Table Present? Yes O No O Depth (inches):	
Saturation Present? Voc No Dopth (inches):	Wetland Hydrology Present? Yes O No 🔍
(includes capillary fringe) Tes No Deput (incluses).	
Describe Recorded Data (stream gauge, monitoring well, aerial phot	tos, previous inspections), if available:
Remarks:	

VEGETATION (Five/Four Strata) - Use scientific	names of	plants. Dominant		Sampling Point: 13			
	Absolute	Species?	Indicator	Dominance Test worksheet:			
(Plot size: _30)	% Cover	Cover	Status				
1. Pinus taeda	45	56.3%	FAC	That are OBL, FACW, or FAC: <u>8</u> (A)			
2. Liquidambar styraciflua	25	✓ 31.3%	FAC				
3. Quercus nigra	10	12.5%	FAC	Species Across All Strata: 9 (B)			
4	0	0.0%					
5	0	0.0%		Percent of dominant Species That Are OBL EACW or EAC: 88.9% (A/B)			
6	0	0.0%					
7	0	0.0%		Prevalence Index worksheet:			
8	0	0.0%		Total % Cover of: Multiply by:			
50% of Total Cover: <u>40</u> 20% of Total Cover: <u>16</u>	80 =	= Total Cover		OBL species $0 \times 1 = 0$			
Sapling or Sapling/Shrub Stratum (Plot size:	_)	_		FACW species $0 \times 2 = 0$			
1. Liquidambar styraciflua	10	14.3%	FAC	FAC speci es <u>195</u> x 3 = <u>585</u>			
2. Ilex vomitoria	40	57.1%	FAC	FACU speciles $-\frac{15}{x 4} = -\frac{60}{2}$			
3. Ligustrum sinense	20	28.6%	FAC	UPL species $0 \times 5 = 0$			
4	0	0.0%		Column Totals: <u>210</u> (A) <u>645</u> (B)			
5	0	0.0%		Prevalence Index = $B/A = 3.071$			
6							
7				nyulophytic vegetation mulcators.			
8	0	0.0%		1 - Rapid Test for Hydrophytic Vegetation			
50% of Total Cover: <u>35</u> 20% of Total Cover: <u>14</u>		= Total Cover		✓ 2 - Dominance Test is > 50%			
Shrub Stratum (Plot size: <u>30</u>)				□ 3 - Prevalence Index is \leq 3.0 ¹			
1. Ardisia crenata	10	✓ 100.0%	FAC	Problematic Hydrophytic Vegetation ¹ (Explain)			
2	0	0.0%					
3	0	0.0%		¹ Indicators of hydric soil and wetland hydrology must			
4	0	0.0%		be present, unless distanced of problematic.			
5	0	0.0%		Definition of Vegetation Strata:			
6	0	0.0%		Tree - Woody plants, excluding woody vines,			
50% of Total Cover: <u>5</u> 20% of Total Cover: <u>2</u>	10 :	= Total Cover		(7.6 cm) or larger in diameter at breast height (DBH).			
_Herb Stratum (Plot size:)							
1 . Lonicera japonica	15	60.0%	FACU	Sapling - Woody plants, excluding woody vines,			
2. Smilax glauca	10	√ 40.0%	FAC	than 3 in. (7.6 cm) DBH.			
3	0	0.0%					
4	0	0.0%		Sapling/Shrub - Woody plants, excluding vines, less			
5	0	0.0%		than 3 m. DBH and greater than 3.26 m (1m) tail.			
6	0	0.0%		Shrub - Woody plants, excluding woody vines,			
7	0	0.0%		approximately 3 to 20 ft (1 to 6 m) in height.			
8	0	0.0%					
9	0	0.0%		herbaceous vines, regardless of size, and woody			
10	0	0.0%		plants, except woody vines, less than approximately			
11	0	0.0%		3 ft (1 m) in height.			
12	0	0.0%		Weedervine Allweedervinee recordless of height			
50% of Total Cover: <u>12.5</u> 20% of Total Cover: <u>5</u>	25 :	= Total Cover		woody vine - All woody vines, regardless of height.			
1. Vitis rotundifolia	15	60.0%	FAC				
2. Toxicodendron radicans	10	✓ 40.0%	FAC				
3	0	0.0%					
4	0	0.0%					
5	0	0.0%		Hydrophytic Vegetation			
50% of Total Cover: <u>12.5</u> 20% of Total Cover: <u>5</u>	25:	= Total Cover		Present? Yes • No U			
Remarks: (If observed, list morphological adaptations below).							

*Indicator suffix = National status or professional decision assigned because Regional status not defined by FWS.

Profile Descr	ription: (Des	cribe to	the depth	needed to document	the indic	ator or cor	nfirm the a	absence of indicators.)
Depth		Matrix		Rec	dox Featu	res			
(inches)	Color (r	noist)	%	Color (moist)	%		Loc ²	Texture	Remarks
0-7	10YR	5/2	100					Silt Loam	
7-16	10YR	6/4	100					Silt Loam	
				·					
		-		·					
1									
Type: C=Con	centration. D=	=Depletio	n. RM=Red	uced Matrix, CS=Covere	d or Coate	d Sand Grai	ns ² Locat	tion: PL=Pore Lining. M	=Matrix
Hydric Soil I	ndicators:							Indicators for Pro	blematic Hydric Soils ³ :
	A1)			Polyvalue Belo	w Surface	(S8) (LRR S	5, T, U)	🗌 1 cm Muck (A9) (LRR 0)
Histic Epi	pedon (A2)			Thin Dark Sur	face (S9) (LRR S, T, U))	2 cm Muck (A1	0) (LRR S)
Black Hist	tic (A3)			Loamy Mucky	Mineral (F	1) (LRR O)		Reduced Vertic	(F18) (outside MLRA 150A,B)
Hydrogen	Sulfide (A4)			Loamy Gleyed	Matrix (F2	2)		Piedmont Flood	Iplain Soils (F19) (LRR P, S, T)
Stratified	Layers (A5)			Depleted Matr	ix (F3)			🗌 Anomalous Brig	ght Loamy Soils (F20) (MLRA 153B)
Organic B	Bodies (A6) (L	RR P, T, L))	Redox Dark S	urface (F6)			Red Parent Mat	terial (TF2)
5 cm Muc	ky Mineral (A	7) (LRR P	, T, U)	Depleted Dark	Surface (F7)		Very Shallow D	ark Surface (TF12)
Muck Pres	Muck Presence (A8) (LRR U)						Other (Explain	in Remarks)	
	:k (A9) (LRR F	P, I)		U Marl (F10) (LF	R U)				
	Below Dark S	urface (A'	11)	Depleted Och	ric (F11) (N	/LRA 151)			
Thick Dar	k Surface (A1	2)		Iron-Mangane	se Masses	(F12) (LRR	O, P, T)		
Coast Pra	irie Redox (A'	16) (MLRA	(150A)	Umbric Surfac	e (F13) (L	RR P, T, U)			
Sandy Muck Mineral (S1) (LRR O, S)							³ Indicato	rs of hydrophytic vegetation and	
Sandy Gle	eyed Matrix (S	54)		Reduced Verti	c (F18) (M	LRA 150A, 1	50B)	wetlan	d hydrology must be present,
Sandy Re	dox (S5)			Piedmont Floc	dplain Soil	s (F19) (MLI	RA 149A)	unle	ss disturbed or problematic.
Stripped I	Matrix (S6)			Anomalous Br	ight Loamy	/ Soils (F20)	(MLRA 149	9A, 153C, 153D)	
Dark Surf	ace (S7) (LRR	ε Ρ, S, T, ι	J)						
Restrictive L	ayer (if obse	erved):							
Туре:	-	-							
Depth (inc	hes):							Hydric Soil Present	? Yes 🔾 No 🖲
Remarks									
Romanto.									

Project/Site: Coburn Lakes Subdivision	City/County: Tangipahoa Sampling Date: 25-Oct-16
Applicant/Owner: Robert Maurin	State: LA Sampling Point: 14
Investigator(s): Hydrik-Kelly Turk	Section, Township, Range: S 28 T 6 S R 8 E
Landform (hillslope, terrace, etc.): Swale	Local relief (concave, convex, none): concave Slope: 7.0 % / 4.0 °
Subregion (LRR or MLRA): MLRA 133A in LRR P Lat.:	30.501952 Long.: -90.400544 Datum: WGS84
Soil Map Unit Name: (Go) Guyton silt loam, 0-1% slopes, rarely flood	led NWI classification: None
Are climatic/hydrologic conditions on the site typical for this time of ye	ear? Yes • No (If no, explain in Remarks.)
Are Vegetation Soil or Hydrology significant	ntly disturbed? Are "Normal Circumstances" present? Yes • No •
Are Vegetation, Soil, or Hydrology naturally	problematic? (If needed, explain any answers in Remarks.)
SUMMARY OF FINDINGS - Attach site map showing sa	ampling point locations, transects, important features, etc.
Hydrophytic Vegetation Present? Yes No 	Is the Sampled Area
Hydric Soil Present? Yes No	
Wetland Hydrology Present? Yes \odot No \bigcirc	within a Wetland?
Remarks: Plot located in a hardwood wetland habitat. The area is a forested terminating at Selser's Creek	drainage swale that meanders north to south on the project area ultimately
HYDROLOGY	
Wetland Hydrology Indicators: Primary Indicators (minimum of one required; check all that apply) Surface Water (A1) Aquatic Fauna (B High Water Table (A2) Marl Deposits (B Saturation (A3) Hydrogen Sulfide Water Marks (B1) Oxidized Rhizosp Sediment Deposits (B2) Presence of Redu Drift Deposits (B3) Recent Iron Redu Algal Mat or Crust (B4) Thin Muck Surfac Iron Deposits (B5) Other (Explain in Inundation Visible on Aerial Imagery (B7) Water Stained Leaves (B9) Field Observations: Surface Water Present? Surface Water Present? Yes No Saturation Present? Yes No Depth (inches): Saturation Present? Yes No Depth (inches): Saturation Present? Yes No Depth (inches): Saturation Present? Yes No Depth (inches): Saturation Present? Yes No Depth (inches): Saturation Present? Yes No Depth (inches):	Secondary Indicators (minimum of 2 required) Surface Soil Cracks (B6) 313) Sparsely Vegetated Concave Surface (B8) i15) (LRR U) Drainage Patterns (B10) e Odor (C1) Moss Trim Lines (B16) betres along Living Roots (C3) Dry Season Water Table (C2) uced Iron (C4) Crayfish Burrows (C8) luction in Tilled Soils (C6) Saturation Visible on Aerial Imagery (C9) ce (C7) Geomorphic Position (D2) n Remarks) Shallow Aquitard (D3) FAC-Neutral Test (D5) Sphagnum moss (D8) (LRR T, U) t:
Remarks:	

VEGETATION (Five/Four Strata) -	Use scientific names of	plants.
-------------------------------------	-----	-------------------------	---------

		D	ominant		Sampling Point: 14
	Absolute	3 2 R	el.Strat.	Indicator	Dominance Test worksheet:
Tree Stratum (Plot size: <u>30</u>)	% Cover	r	Cover	Status	Number of Dominant Species
1. Magnolia virginiana	45	✓	52.3%	FACW	That are OBL, FACW, or FAC:8(A)
2. Quercus laurifolia	25	✓	29.1%	FACW	
3. Acer rubrum	16		18.6%	FAC	Total Number of Dominant
4.	0		0.0%		
5	0	\square	0.0%		Percent of dominant Species
6			0.0%		That Are OBL, FACW, or FAC:(A/B)
7			0.0%		Provelence Index worksheet.
0			0.0%		Tatal 0/ Occur of Multiple her
		-	0.0%		I Otal % Cover of: Multiply by:
S0% of Total Cover: 43 20% of Total Cover: 17.2	86	= 1	otal Cover		OBL species 10 x l = 10
Sapling or Sapling/Shrub Stratum (Plot size: 30	_)				FACW species <u>108</u> \times 2 = <u>216</u>
1. Acer rubrum	15		30.0%	FAC	FAC speci es 56 x 3 = 168
2. Cyrilla racemifiora	25		50.0%	FACW	FACU species $_0$ x 4 = $_0$
3. Morella cerifera	10	✓	20.0%	FAC	UPL species $0 \times 5 = 0$
4	0		0.0%		Column Totals: 174 (A) 394 (B)
5	0		0.0%		
6	0		0.0%		Prevalence Index = B/A = <u>2.264</u>
7.	0		0.0%		Hydrophytic Vegetation Indicators:
8.	0		0.0%		
5		-	atal Cava		1 - Rapid Test for Hydrophytic Vegetation
	50	= 1	otal Cover		✓ 2 - Dominance Test is > 50%
Shrub Stratum (Plot size:)		_			✓ 3 - Prevalence Index is \leq 3.0 ¹
1	0		0.0%		Problematic Hydrophytic Vegetation ¹ (Explain)
2	0		0.0%		
3	0		0.0%		¹ Indicators of hydric soil and wetland hydrology must
4	0		0.0%	-	be present, unless disturbed or problematic.
5.	0	\square	0.0%		Definition of Vegetation Strata:
6	0	\square	0.0%		Tree - Woody plants, excluding woody vines,
50% of Total Cover: 0 20% of Total Cover: 0		= T	otal Cover		approximately 20 ft (6 m) or more in height and 3 in.
					(7.6 cm) or larger in diameter at breast height (DBH).
Herb Stratum (Plot size: <u>30</u>)		_			Sapling - Woody plants, excluding woody vines
1. Woodwardia areolata	10		40.0%	OBL	approximately 20 ft (6 m) or more in height and less
2. Gelsemium sempervirens	15	✓	60.0%	FAC	than 3 in. (7.6 cm) DBH.
3	0		0.0%		
4	0		0.0%		Sapling/Shrub - Woody plants, excluding vines, less
5	0		0.0%		than 3 ln. DBH and greater than 3.28 ft (1m) tail.
6	0		0.0%		Shrub - Woody plants, excluding woody vines
7	0		0.0%		approximately 3 to 20 ft (1 to 6 m) in height.
8	0		0.0%		
9.	0		0.0%		Herb - All herbaceous (non-woody) plants, including
10	0		0.0%		herbaceous vines, regardless of size, and woody
11	- <u> </u>		0.0%		3 ft (1 m) in height.
12			0.0%		
EQ0(of Total Covery 42.5 200/ of Tatal Covery 5			0.0%		Woody vine - All woody vines, regardless of height.
	25	= 1	otal Cover		, , , , , , , , , , , , , , , , , , ,
Woody Vine Stratum (Plot size: 30)					
1. Smilax laurifolia	13	✓	100.0%	FACW	
2	0		0.0%		
3	0		0.0%		
4	0		0.0%		
5.	0		0.0%		Hydrophytic
50% of Total Cover: 6.5 20% of Total Cover: 2.6	12	= T.	otal Cover		Present? Yes No
Remarks: (If observed, list morphological adaptations below).					
Indicator suffix = National status or professional decision assigned because R	egional status	s not	aetined by F	WS.	

Profile Desc	ription: (De	scribe to	the depth	needed to	document	t the indic	ator or co	nfirm the	absence of indicators.)		
Depth		Matrix			Re	dox Featu	res		_			
(inches)	Color (moist)	_%	Color (moist)	%	Tvpe ¹	Loc ²	Texture	Remarks		
0-3	10YR	5/2				_			Silt Loam			
3-11	10YR	4/1	95	10YR	4/4	5	RM	Μ	Silt Loam			
										anna an		
						_						
	u											
	-	8-		-				-	<u></u>			
-	-		-				-		-			
Hydria Sail		=Depletio	II. KIVI=Keu	uceu matrix,	C3=COVER		u Sanu Gra		ation. PL=Pore Lining. M			
	1101Cators.				nuelus Del	C		с т II)	Indicators for Pro	blematic Hydric Soils ³ :		
	$(\Lambda 2)$				yvalue Bel	ow Surrace	(58) (LRR	S, I, U)	1 cm Muck (A9) (LRR 0)		
	ic (A2)				n Dark Sur	Tace (S9) ())	2 cm Muck (A1	0) (LRR S)		
	Sulfida (11)					Wineral (F	1) (LRR U)		Reduced Vertic	(F18) (outside MLRA 150A,B)		
	Lavors (A5)				imy Gleyed		<u>(</u>)		Piedmont Flood	dplain Soils (F19) (LRR P, S, T)		
	indies (A6) (I	RRPTI	D			IIX (F3)			Anomalous Brig	ght Loamy Soils (F20) (MLRA 153B)		
	ky Mineral (A	7) (I RR P	, T II)		JUX Dark S		-7)		Red Parent Ma	terial (TF2)		
	sence (A8) (I	RR II)	, 1, 0)			cione (EQ)	- /)		Very Shallow D	ark Surface (TF12)		
	k (A9) (LRR	Р. Т)			rl (E10) (L				U Other (Explain	in Remarks)		
Depleted	Below Dark S	Surface (A	11)		nleted Och	ric (F11) (N	/I RA 151)					
Thick Dar	k Surface (A	12)	,		n-Mangane	ese Masses	(F12) (I RF	2 O P T)				
Coast Pra	irie Redox (A	, 16) (MLRA	A 150A)		ibric Surfa	ce (F13) (L		(0, 1 , 1)				
Sandy Mu	ick Mineral (S	51) (LRR O), S)		ta Ochric ((F17) (MLR	A 151)					
Sandy Gle	eyed Matrix (S4)			duced Vert	ic (F18) (M	LRA 150A.	150B)	³ Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic			
Sandy Re	dox (S5)			Pie	dmont Flo	odplain Soil	s (F19) (MI	_RA 149A)				
Stripped I	Matrix (S6)			And	omalous Bi	right Loamy	Soils (F20) (MLRA 14	9A, 153C, 153D)			
Dark Surf	ace (S7) (LRI	R P, S, T, I	U)			5			,,			
	46.1											
Restrictive L	ayer (if obs	erved):										
Dopth (inc	hoc).								Hydric Soil Present	? Yes 🖲 No 🔾		
Depth (Inc	nes):								, ,			
Remarks:												

Project/Site: Coburn Lakes Subdivision	City/County: Tangipahoa Sampling Date: 25-Oct-16
Applicant/Owner: Robert Maurin	State: LA Sampling Point: 15
Investigator(s): Hydrik-Kelly Turk	_ Section, Township, Range: S 28 T 6 S R 8 E
Landform (hillslope, terrace, etc.): Hillside	Local relief (concave, convex, none): Convex Slope: 6.0 % / 3.4 °
Subregion (LRR or MLRA): MLRA 133A in LRR P Lat.:	30 502222 Long.: -90 400448 Datum: WGS84
Soil Man Linit Name: (Go) Guyton silt loam, 0-1% slopes, rarely floode	ed NWL classification: None
Are climatic /hydrologic conditions on the site typical for this time of ye	$\frac{1}{1000} = \frac{1}{1000} + \frac{1}{1000} = \frac{1}{1000} + 1$
Are Vegetation Soil or Hydrology significant	$\frac{1}{100} = \frac{1}{100} = \frac{1}$
SUMMARY OF FINDINGS - Attach site map showing sa	ampling point locations, transects, important features, etc.
Hydrophytic Vegetation Present? Ves	
Hydric Soil Dresent?	Is the Sampled Area
Wetland Hydrology Present?	within a Wetland? Yes \bigcirc No $ullet$
Plot located in upland mixed pine/hardwood area.	
HYDROLOGY	
Wetland Hydrology Indicators:	Secondary Indicators (minimum of 2 required)
Primary Indicators (minimum of one required; check all that apply)) Surface Soil Cracks (B6)
Surface Water (A1)	313) Sparsely Vegetated Concave Surface (B8)
High Water Table (A2)	15) (LRR U) Drainage Patterns (B10)
Saturation (A3)	e Odor (C1) Moss Trim Lines (B16)
Water Marks (B1) Oxidized Rhizosph Oxidized Rhizosph	Uneres along Living Roots (C3) Dry Season Water Table (C2)
Sediment Deposits (B2) Presence of Redu	uced Iron (C4) Crayfish Burrows (C8)
Algal Mat or Crust (B4)	
☐ Iron Deposits (B5)	a Remarks) Shallow Aguitard (D3)
Inundation Visible on Aerial Imagery (B7)	FAC-Neutral Test (D5)
Water-Stained Leaves (B9)	Sphagnum moss (D8) (LRR T, U)
Field Observations:	
Surface Water Present? Yes O No O Depth (inches):	:
Water Table Present? Yes O No O Depth (inches):	:
Saturation Present? Ves No Pepth (inches):	Wetland Hydrology Present? Yes 🔾 No 🔍
(includes capillary fringe)	too provinue increatione) if queilable.
Describe Recorded Data (stream gauge, monitoring weil, aenar prot	tos, previous inspections), ir available:
Develop	
Remarks:	

VEGETATION (Five/Four Strata)	-	Use scientific names of plants.
--------------------------------------	---	---------------------------------

		D	ominant		Sampling Point: 15
	Absolute	- 3 > R	el.Strat.	Indicator	Dominance Test worksheet:
(Plot size: <u>30</u>)	% Cove	r	Cover	Status	Number of Dominant Species
1. Pinus taeda	25	✓	45.5%	FAC	That are OBL, FACW, or FAC: (A)
2. Quercus nigra	20	✓	36.4%	FAC	
3. Liquidambar styraciflua	10		18.2%	FAC	Total Number of Dominant Species Across All Strata: 8 (B)
4.	0		0.0%		
5	0		0.0%		Percent of dominant Species
6	0		0.0%		That Are OBL, FACW, or FAC: <u>87.5%</u> (A/B)
7			0.0%		Provalance Index worksheet:
8			0.0%		Tatal 0/ Cause of Multiply by
O					
		= 10	otal Cover		
Sapling or Sapling/Shrub Stratum (Plot size: <u>30</u>)				FACW species $0 \times 2 = 0$
1. Liquidambar styraciflua	10		20.0%	FAC	FAC speci es 174 x 3 = 522
2. Ilex vomitoria	40		80.0%	FAC	FACU speci es 15 x 4 = 60
3	0		0.0%		UPL species $0 \times 5 = 0$
4	0		0.0%		Column Totals: 189 (A) 582 (B)
5	0		0.0%		
6	0		0.0%		Prevalence Index = $B/A = 3.079$
7	0		0.0%		Hydrophytic Vegetation Indicators:
8.	0		0.0%		
50% of Total Cover: 25 20% of Total Cover: 10	 50	– т	otal Covor		
		- 1			✓ 2 - Dominance Test is > 50%
Shrub Stratum (Plot size: <u>30</u>)		_			\Box 3 - Prevalence Index is ≤3.0 ¹
1. Callicarpa americana	15	✓	100.0%	FACU	Problematic Hydrophytic Vegetation ¹ (Explain)
2	0		0.0%		
3	0		0.0%		¹ Indicators of hydric soil and wetland hydrology must
4	0		0.0%	-	be present, unless disturbed or problematic.
5.	0	\square	0.0%		Definition of Vegetation Strata:
6	0	\Box	0.0%		Tree - Woody plants, excluding woody vines,
50% of Total Cover: 7.5 20% of Total Cover: 3	15	= T	otal Cover		approximately 20 ft (6 m) or more in height and 3 in.
		•			(7.6 cm) or larger in diameter at breast height (DBH).
<u>Herb Stratum</u> (Plot size: <u>30</u>)					Sapling Weady planta avaluding weady vince
1. Rubus argutus	15	✓	30.0%	FAC	approximately 20 ft (6 m) or more in height and less
2. Gelsemium sempervirens	35	✓	70.0%	FAC	than 3 in. (7.6 cm) DBH.
3	0		0.0%		
4	0		0.0%		Sapling/Shrub - Woody plants, excluding vines, less
5.	0		0.0%		than 3 in. DBH and greater than 3.28 ft (1m) tall.
6.	0		0.0%		Chrub Weedy plante evaluding weedy vince
7.	0		0.0%		approximately 3 to 20 ft (1 to 6 m) in height.
8	0		0.0%		
9			0.0%		Herb - All herbaceous (non-woody) plants, including
10			0.0%		herbaceous vines, regardless of size, and woody
11			0.070		plants, except woody vines, less than approximately 3 ft (1 m) in height
10			0.0%		
	0		0.0%		Woody vine - All woody vines, regardless of height
50% of Total Cover: 25 20% of Total Cover: 10	50	= T(otal Cover	•	woody vine - Ai woody vines, regardless of height.
Woody Vine Stratum (Plot size: 30)					
1. Vitis rotundifolia	19	✓	100.0%	FAC	
2.	0		0.0%		
3.	0		0.0%		
4	0		0.0%		
5			0.0%		Hydrophytic
		_			Vegetation Present? Yes I No
50% of Lotal Cover: 9.5 20% of Total Cover: 3.8		= T(otal Cover	- 	
Remarks: (If observed, list morphological adaptations below).					
,					
*Indicator suffix = National status or professional decision assigned because F	Regional status	s not	defined by F	WS.	

Profile Description: (Describe to the	e depth needed t	o document t	he indica	ator or cor	firm the a	absence of indicators	.)		
Depth Matrix	·								
(inches) Color (moist)	<u>%</u> Colo	or (moist)	%	Tvpe ¹	Loc ²	Texture	Remarks		
0-6 10YR 4/2	100					Silt Loam			
6-10 10YR 7/3	100					Silt Loam			
10-16 10YR 6/6	100					Silty Clay Loam			
				- <u></u> ,					
				- <u></u> .					
¹ Type: C=Concentration. D=Depletion.	RM=Reduced Matri	x, CS=Covered	or Coated	d Sand Grai	ns ² Locat	tion: PL=Pore Lining. N	1=Matrix		
Hydric Soil Indicators:						Indicators for Pr	oblematic Hydric Soils ³		
Histosol (A1)		Polvvalue Belov	v Surface	(S8) (LRR S	. T. U)		(1 PP 0)		
Histic Epipedon (A2)		Thin Dark Surfa	ace (S9) (I	LRR S. T. U)	, ., _,		$\frac{1}{10} (LRR O)$		
Black Histic (A3)		Loamy Mucky N	Aineral (F1	1) (I RR O)			(LRR 3)		
Hydrogen Sulfide (A4)		Loamy Gleved I	Matrix (F2	·) ()					
Stratified Layers (A5)		Depleted Matrix	(F3)	.)					
Organic Bodies (A6) (LRR P, T, U)		Redox Dark Sur	rface (F6)				gnt Loamy Solis (F20) (MLRA 153B)		
5 cm Mucky Mineral (A7) (LRR P.	г. U)	Depleted Dark	Surface (F	7)					
Muck Presence (A8) (LRR U)		Redax Denressi	ions (F8)	,)			Jark Surface (TFT2)		
1 cm Muck (A9) (LRR P. T)		Marl (F10) (LRF	211)			Uther (Explain	in Remarks)		
Depleted Below Dark Surface (A11)	Depleted Ochrid	(F11) (N	11 RA 151)					
Thick Dark Surface (A12)		Iron-Manganes	e Masses	(F12) (I RR	0 P T)				
Coast Prairie Redox (A16) (MLRA 1	50A)	Umbric Surface	(F13) (I F		0,1,1)				
Sandy Muck Mineral (S1) (LRR O,	S)	Delta Ochric (F	17) (MIR4	A 151)					
Sandy Gleved Matrix (S4)		Reduced Vertic	(F18) (MI	RA 150A 1	50B)	³ Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic			
Sandy Redox (S5)		Piedmont Flood	Inlain Soils	s (F19) (MII	2Δ 149Δ)				
Stripped Matrix (S6)		Anomalous Brio	nht Loamv		(MI RA 140	uniess disturbed of problematic.			
Dark Surface (S7) (LRR P, S, T, U)		Anomalous brig	Jint Louiny	5013 (120)		, 1330, 133D)			
Postrictivo Lavor (if obsorved):									
Dopth (inchos):			-			Hydric Soil Present? Yes 🔿 No 🖲			
			_			-			
Remarks:									

Project/Site: Coburn Lakes Subdivision	City/County: Tang	jipahoa	Sampling Date:	25-Oct-16
Applicant/Owner: Robert Maurin	State	: LA Sar	mpling Point: 16	
Investigator(s): Hydrik-Kelly Turk	Section, Township	o, Range: S 28	τ ₆ ς κε	3 E
Landform (hillslope, terrace, etc.): Ridge	Local relief (concav	e, convex, none): (convex Slope:	0.0 % / 0.0 °
Subregion (LRR or MLRA): MLRA 133A in LRR P Lat.:	30.499738	۔۔۔ .90۔ Long	.403664 Da	tum: WGS84
Soil Map Unit Name: (Go) Guyton silt loam, 0-1% slopes, rarely floode	ed	• • NV	NI classification: None	
Are climatic/hydrologic conditions on the site typical for this time of ve	ar? Yes 🖲	No (If no. 6	explain in Remarks.)	
Are Vegetation Soil or Hydrology significant	tly disturbed? /	Are "Normal Circums	stances" present? Yes (● _{No} ○
	ny distance.			
SUMMARY OF FINDINGS - Attach site map showing sa	impling point loc	cations, transec	ts, important feature	s. etc.
Hydrophytic Vegetation Present? Yes No C	Is the Sam	pled Area		
Hydric Soil Present? Yes No	within a W	\sim etland? Yes \bigcirc	No 🖲	
Wetland Hydrology Present? Yes U No U				
Remarks: Plot taken in an unland nine area				
HYDROLOGY				
Wetland Hydrology Indicators:		Second	ary Indicators (minimum of 2 re	equired)
Primary Indicators (minimum of one required; check all that apply)		Surf	face Soil Cracks (B6)	
Surface Water (A1)	13)	Spa	Irsely Vegetated Concave Surfa	ce (B8)
High Water Table (A2)	5) (LRR U)	Drai	inage Patterns (B10)	
Saturation (A3)	Odor (C1)	Mos	ss Trim Lines (B16)	
Water Marks (B1) Oxidized Rhizospi	neres along Living Roots	s (C3) 🗌 Dry	Season Water Table (C2)	
Sediment Deposits (B2)	ced Iron (C4)		yfish Burrows (C8)	
Drift Deposits (B3) Recent Iron Redu	ction in Tilled Solis (C6)) Satu	uration Visible on Aerial Imager	y (C9)
	e (C7)	Geo	morphic Position (D2)	
Inundation Visible on Aerial Imagery (B7)	Remarks)		Neutral Test (D5)	
Water-Stained Leaves (B9)			pagnum moss (D8) (LRR T LI)	
Surface Water Present? Yes No Depth (inches):				
Water Table Present? Voc No Double (Inclusio)				
Saturation Present?	w	Vetland Hydrology P	resent? Yes \bigcirc No $^{\prime}$	۲
(includes capillary fringe) Yes V No O Depth (inches):				
Describe Recorded Data (stream gauge, monitoring well, aerial phot	os, previous inspecti	ons), if available:		
Remarks:				

VEGETATION (Five/Four Strata) - Use scientific names of plants.

		Do	ominant		Sampling Point: 16		
	Absolute	_ 3	el.Strat.	Indicator	Dominance Test worksheet:		
Tree Stratum (Plot size: <u>30</u>)	% Cover	•	Cover	Status	Number of Dominant Species		
1. Pinus taeda	75		88.2%	FAC	That are OBL, FACW, or FAC:6(A)		
2. Nyssa sylvatica	10		11.8%	FAC			
3	0		0.0%		I otal Number of Dominant Species Across All Strata: 7 (B)		
4	0		0.0%				
5	0		0.0%		Percent of dominant Species		
6	0		0.0%	-	That Are OBL, FACW, or FAC:85.7% (A/B)		
7	0		0.0%		Prevalence Index worksheet:		
8	0		0.0%		Total % Cover of: Multiply by:		
50% of Total Cover: 42.5 20% of Total Cover: 17	85	= To	otal Cover		OBL species () x 1 = ()		
Sapling or Sapling/Shrub Stratum (Plot size: 30)				FACW species $0 \times 2 = 0$		
1 liex vomitoria	′ 35		63.6%	FAC	EAC species $170 \times 3 = 510$		
7 7 7	15		27.3%	FAC	$\frac{1}{2} \sum_{i=1}^{n} \frac{1}{2} \sum_{i=1}^{n} \frac{1}$		
2 Vaccinium arboreum	<u>5</u>		0.1%	EACU	FACU Spectres 20 x 4 = 00		
			7.170	TACO	UPL species $-\frac{1}{2}$ x 5 = $-\frac{1}{2}$		
4			0.0%		Column Totals: <u>190</u> (A) <u>590</u> (B)		
0 6			0.0%		Prevalence Index = B/A = 3.105		
07			0.0%		Hydrophytic Vegetation Indicators:		
/			0.0%				
8	0		0.0%		1 - Rapid Test for Hydrophytic Vegetation		
50% of Total Cover: 27.5 20% of Total Cover: 11	55	= To	otal Cover		✓ 2 - Dominance Test is > 50%		
Shrub Stratum (Plot size:)					□ 3 - Prevalence Index is \leq 3.0 ¹		
1	0		0.0%		Problematic Hydrophytic Vegetation ¹ (Explain)		
2.	0		0.0%				
3.	0		0.0%		¹ Indicators of hydric soil and wetland hydrology mus		
4.	0		0.0%		be present, unless disturbed or problematic.		
5			0.0%		Definition of Vegetation Strata:		
6 6	0		0.0%		Tree - Woody plants, excluding woody vines.		
50% of Total Cover: 0 20% of Total Cover: 0		= To	tal Cover		approximately 20 ft (6 m) or more in height and 3 in.		
					(7.6 cm) or larger in diameter at breast height (DBH).		
Herb Stratum (Plot size: <u>30</u>)					Sapling - Woody plants, excluding woody vines		
1 <u>Lonicera Japonica</u>	15		37.5%	FACU	approximately 20 ft (6 m) or more in height and less		
2. Lygodium japonicum	10		25.0%	FAC	than 3 in. (7.6 cm) DBH.		
3. Toxicodendron radicans	15		37.5%	FAC			
4	0		0.0%		Sapling/Shrub - Woody plants, excluding vines, less		
5	0		0.0%				
6	0		0.0%		Shrub - Woody plants, excluding woody vines,		
7	0		0.0%		approximately 3 to 20 ft (1 to 6 m) in height.		
8	0		0.0%				
9	0		0.0%		Herb - All herbaceous (non-woody) plants, including		
10. <u> </u>	0		0.0%		plants, except woody vines, less than approximately		
11	0		0.0%		3 ft (1 m) in height.		
12	0		0.0%				
50% of Total Cover: 20 20% of Total Cover: 8	40	= Tc	otal Cover		Woody vine - All woody vines, regardless of height.		
Woody Vino Stratum (Plot size: 30)							
Smilay rotundifolia	10		100 00/	EAC			
			0.00/	- I AC			
۷. <u></u>			0.0%				
٥			0.0%				
4			0.0%		Hydrophytic		
5	0	\Box	0.0%				
50% of Total Cover: 5 20% of Total Cover: 2	10 =	= To	otal Cover		Present? Tes \bigcirc NO \bigcirc		
Remarks: (If observed, list morphological adaptations below)							
*Indicator suffix = National status or professional decision assigned because R	Regional status	not o	defined by F	NS.			

US Army Corps of Engineers

Profile Desc	ription: (De	scribe to	the depth	needed to c	locument	t the indic	ator or co	onfirm the	absence of indicators	.)	
Depth Matrix Redox Features											
(inches)	Color ((moist)	<u>%</u>	Color (moist)	_%	Tvpe ¹	Loc ²		Remarks	
4.16	10/0	7/2		10/0		2			Cilt Loom		
			98								
					 CS=Covere	 ed or Coate		ains ² Loca	tion: PL=Pore Lining. N	n=Matrix	
Hydric Soil	Indicators:								Indicators for Pro	oblematic Hydric Soils ³ :	
Histosol Histic Ep Black His Hydrogee Stratified Organic I 5 cm Mu Muck Pre 1 cm Mu Depleted Thick Da Coast Pra Sandy Mi Sandy Gl Sandy Re Stripped Dark Sur	Hydric Soil Indicators: Indicators for Problematic Hydric Soils ³ : Histosol (A1) Polyvalue Below Surface (S8) (LRR S, T, U) 1 cm Muck (A9) (LRR O) Histic Epipedon (A2) Thin Dark Surface (S9) (LRR S, T, U) 2 cm Muck (A10) (LRR S) Biack Histic (A3) Loamy Mucky Mineral (F1) (LRR O) Reduced Vertic (F18) (outside MLRA 150A,B) Hydrogen Suffide (A4) Loamy Gleged Matrix (F2) Piedmont Floodplain Soils (F19) (LRR P, S, T) Stratified Layers (A5) Depleted Matrix (F3) Anomalous Bright Loamy Soils (F20) (MLRA 153B) Organic Bodies (A6) (LRR P, T, U) Redox Dark Surface (F6) Red Parent Material (TF2) 5 cm Mucky Mineral (A7) (LRR P, T, U) Depleted Dark Surface (F7) Very Shallow Dark Surface (TF12) Muck Presence (A8) (LRR U) Redox Depressions (F8) Other (Explain in Remarks) 1 cm Muck (A9) (LRR P, T) Mari (F10) (LRR U) Depleted Ochric (F11) (MLRA 151) Depleted Below Dark Surface (A11) Depleted Ochric (F13) (LRR P, T, U) Sandy Muck Mineral (S1) (LRR O, S) Sandy Gleged Matrix (S4) Reduced Vertic (F18) (MLRA 150A, 150B) Sandy Redox (S5) Sandy Redox (S5) Piedmont Floodplain Soils (F20) (MLRA 149A) Sandy Net Mineral (S1) (LRR P, S, T, U) Stripped Matrix (S6) Anomalous Bright Loamy Soils (
Restrictive L	ayer (if obs	erved):									
Type: Depth (ind	ches):								Hydric Soil Present? Yes 🔿 No 🖲		
Remarks:											

Project/Site: Coburn Lakes Subdivision	Sity/County: Tangipahoa Sampling Date	:: 25-Oct-16				
Applicant/Owner: Robert Maurin	State: LA Sampling Point: 17					
Investigator(s): Hydrik-Kelly Turk	Section, Township, Range: S 28 T 6 S R	8 E				
Landform (hillslope, terrace, etc.): Ridge	.ocal relief (concave, convex, none): CONVEX Slope:	0.0 % / 0.0 °				
Subregion (LRR or MLRA): MLRA 133A in LRR P Lat.:	30.499342 Long.: -90.406210	Datum: WGS84				
Soil Map Unit Name: (Go) Guyton silt loam, 0-1% slopes, rarely floode	NWI classification: None					
Are climatic/hydrologic conditions on the site typical for this time of year	2 Yes No (If no, explain in Remarks.)					
Are Vegetation Soil or Hydrology significant	/ disturbed? Are "Normal Circumstances" present? Yes	s 💿 No 🔿				
SUMMARY OF FINDINGS - Attach site map showing sa	poling point locations, transects, important feature	, res, etc.				
Hydronhytic Vegetation Present? Ves						
Hydric Soil Procent? Ves \bigcirc No \bigcirc	Is the Sampled Area					
Wetland Hydrology Present?	within a Wetland? Yes \bigcirc No $ullet$					
Plot taken in an upland pine area.						
HYDROLOGY						
Wetland Hydrology Indicators:	Secondary Indicators (minimum of :	2 required)				
Primary Indicators (minimum of one required; check all that apply)	Surface Soil Cracks (B6)					
Surface Water (A1)) Sparsely Vegetated Concave Su	rface (B8)				
High Water Table (A2) Marl Deposits (B1	(LRR U) Drainage Patterns (B10)	Drainage Patterns (B10)				
Saturation (A3)	dor (C1) Moss Trim Lines (B16)					
Water Marks (B1)	res along Living Roots (C3) Dry Season Water Table (C2)					
Sediment Deposits (B2)	d Iron (C4) Crayfish Burrows (C8)					
Drift Deposits (B3)	ion in Tilled Soils (C6) Saturation Visible on Aerial Imag	gery (C9)				
Algal Mat or Crust (B4)	(C7) Geomorphic Position (D2)					
Iron Deposits (B5) Other (Explain in	emarks) Shallow Aquitard (D3)					
Inundation Visible on Aerial Imagery (B7)	FAC-Neutral Test (D5)					
Water-Stained Leaves (B9)	Sphagnum moss (D8) (LRR T, L	J)				
Field Observations:						
Surface Water Present? Yes Vo Vo Depth (inches):						
Water Table Present? Yes O No O Depth (inches):						
Saturation Present? Yes No Depth (inches):	Wetland Hydrology Present? Yes UN	0				
Describe Recorded Data (stream gauge, monitoring well, aerial photo	s, previous inspections), if available:					
Remarks:						

VEGETATION (Five/Four Strata) - Use scientific names of plants.

		Do	ominant		Sampling Point: 17		
	Absolute	R	el.Strat.	Indicator	Dominance Test worksheet:		
Tree Stratum (Plot size: <u>30</u>)	% Cover		Cover	Status	Number of Dominant Species		
1. Pinus taeda	75		88.2%	FAC	That are OBL, FACW, or FAC: <u>6</u> (A)		
2. Nyssa sylvatica	10		11.8%	FAC			
3	0		0.0%		Species Across All Strata: 7 (B)		
4	0		0.0%				
5	0		0.0%		Percent of dominant Species		
6	0		0.0%		That Are OBL, FACW, or FAC:85.7% (A/B)		
7	0		0.0%		Prevalence Index worksheet:		
8	0		0.0%		Total % Cover of: Multiply by:		
50% of Total Cover: 42.5 20% of Total Cover: 17	85	= To	otal Cover		OBL species () x 1 = ()		
Sanling or Sanling/Shrub Stratum (Plot size: 30)				FACW species $0 \times 2 = 0$		
1 liex vomitoria		\checkmark	63.6%	FAC	EAC species $170 \times 3 = 510$		
7 7 7	15		27.3%	FAC	$\frac{1}{2} \sum_{i=1}^{n} \frac{1}{2} \sum_{i=1}^{n} \frac{1}$		
2. Vaccinium arboreum	5		0.1%	FACU	FACU Spectres 20 x 4 = 0		
			9.170	TACO	UPL species $-\frac{1}{2}$ x 5 = $-\frac{1}{2}$		
4			0.0%		Column Totals: <u>190</u> (A) <u>590</u> (B)		
0 6			0.0%		Prevalence Index = B/A = <u>3.105</u>		
07			0.0%		Hydrophytic Vegetation Indicators:		
/			0.0%				
0	0		0.0%		1 - Rapid Test for Hydrophytic Vegetation		
50% of Total Cover: 27.5 20% of Total Cover:1	55	= To	otal Cover		✓ 2 - Dominance Test is > 50%		
Shrub Stratum (Plot size:)					□ 3 - Prevalence Index is \leq 3.0 ¹		
1	0		0.0%		Problematic Hydrophytic Vegetation ¹ (Explain)		
2.	0		0.0%				
3.	0		0.0%		¹ Indicators of hydric soil and wetland hydrology mus		
4.	0		0.0%		be present, unless disturbed or problematic.		
5.	0		0.0%		Definition of Vegetation Strata:		
6	0		0.0%		Tree - Woody plants, excluding woody vines,		
50% of Total Cover: 0 20% of Total Cover: 0		= To	otal Cover		approximately 20 ft (6 m) or more in height and 3 in.		
					(7.6 cm) or larger in diameter at breast height (DBH).		
Herb Stratum (Plot Size: 30)					Sapling - Woody plants, excluding woody vines		
1. Lonicera japonica	15		37.5%	FACU	approximately 20 ft (6 m) or more in height and less		
2. Lygodium japonicum	10		25.0%	FAC	than 3 in. (7.6 cm) DBH.		
3. Toxicodendron radicans	15		37.5%	FAC			
4	0		0.0%		Sapling/Shrub - Woody plants, excluding vines, less than 3 in DBH and greater than 3 28 ft (1m) tall		
5	0		0.0%				
6	0		0.0%		Shrub - Woody plants, excluding woody vines,		
7	0		0.0%		approximately 3 to 20 ft (1 to 6 m) in height.		
8	0		0.0%				
9	0		0.0%		Herb - All nerbaceous (non-woody) plants, including		
10. <u> </u>	0		0.0%		plants, except woody vines, less than approximately		
11	0		0.0%		3 ft (1 m) in height.		
12	0		0.0%				
50% of Total Cover: 20 20% of Total Cover: 8	40	= To	otal Cover		Woody vine - All woody vines, regardless of height.		
Woody Vine Stratum (Plot size: 30)							
1 Smilax rotundifolia	10		100 0%	FAC			
1. <u>Childre Fotorianona</u>			0.0%				
۲ ۲			0.0%				
۵ ۸			0.0%	·			
4			0.0%	·	Hydrophytic		
5	0		0.0%	·			
50% of Total Cover: 5 20% of Total Cover: 2	10 =	= To	otal Cover		Present? Tes S INO C		
Remarks: (If observed, list morphological adaptations below)							
*Indicator suffix = National status or professional decision assigned because I	Regional status	not o	defined by F	WS.			

US Army Corps of Engineers

Profile Descr	ription: (De	scribe to	the depth	needed to d	locument	the indic	ator or co	onfirm the	absence of indicators.)	-
Depth	L	Matrix		-						
(inches)	<u>Color (</u>	(moist)	<u>%</u>	<u>Color (</u>	moist)	%		Loc ²	Texture	Remarks
	10YR	4/2	100						Silt Loam	
4-16	10YR	7/2	98	10YR	5/4	2	D	M	Silt Loam	
·	·							· · · · · · · · · · · · · · · · · · ·		
¹ Type: C=Con	centration. D	=Depletio	n. RM=Red	uced Matrix,	CS=Covere	ed or Coate	ed Sand Gra	ains ² Loca	tion: PL=Pore Lining. M=	=Matrix
Hydric Soil I Histosol (Histic Epij Black Hist Hydrogen Stratified Organic B 5 cm Muc Muck Pree 1 cm Muc Depleted Thick Dar Coast Pra Sandy Mu Sandy Gle Sandy Re Stripped I Dark Surf	Hydric Soil Indicators: Indicators for Problematic Hydric Soils ³ : Histosol (A1) Polyvalue Below Surface (S8) (LRR S, T, U) 1 cm Muck (A9) (LRR O) Histosol (A1) Coamy Mucky Mineral (F1) (LRR O) 2 cm Muck (A10) (LRR S) Black Histic (A3) Loamy Mucky Mineral (F1) (LRR O) Reduced Vertic (F18) (outside MLRA 150A, B) Hydrogen Sulfide (A4) Loamy Gleyed Matrix (F2) Piedmont Floodplain Soils (F19) (LRR P, S, T) Stratified Layers (A5) Depleted Matrix (F3) Anomalous Bright Loamy Soils (F20) (MLRA 153B) Organic Bodies (A6) (LRR P, T, U) Redox Dark Surface (F7) Very Shallow Dark Surface (TF12) Muck Presence (A8) (LRR U) Redox Depressions (F8) Other (Explain in Remarks) 1 cm Muck (A9) (LRR P, T) Mari (F10) (LRR U) Depleted Ochric (F11) (MLRA 151) Depleted Below Dark Surface (A11) Depleted Ochric (F13) (LRR P, T, U) Depleted Ochric (F13) (LRR O, P, T) Sandy Muck Mineral (S1) (LRR O, S) Delta Ochric (F13) (MLRA 150A, 150B) ³ Indicators of hydrophylic vegetation and wetland hydrology must be present, unless disturbed or problematic. Sandy Redox (S5) Piedmont Floodplain Soils (F20) (MLRA 149A) unless disturbed or problematic. Stripped Matrix (S6) Anomalous Bright Loamy Soils (F20) (MLRA 149A, 153C, 153D)									
Restrictive L	ayer (if obs	erved):								0 0
Depth (inc	hes):								Hydric Soil Present?	? Yes \cup No $oldsymbol{\Theta}$
kemarks:										

Project/Site: Coburn Lakes Subdivision	City/County: Tangipahoa Sampling Date: 25-Oct-16
Applicant/Owner: Robert Maurin	State: LA Sampling Point: 18
Investigator(s): Hydrik-Kelly Turk	Section, Township, Range: S 28 T 6 S R 8 E
Landform (hillslope, terrace, etc.): Flat	Local relief (concave, convex, none): none Slope: 0.0 % / 0.0 °
Subregion (LRR or MLRA): MLRA 133A in LRR P Lat.:	30.498352 Long.: -90.401730 Datum: WGS84
Soil Map Unit Name: (Go) Guyton silt loam, 0-1% slopes, rarely floode	ed NWL classification: None
Are climatic/hydrologic conditions on the site typical for this time of ye	$\frac{1}{2}$
Are Vegetation Soil or Hydrology significant	$\frac{1}{100} = \frac{1}{100} = \frac{1}$
SUMMARY OF FINDINGS - Attach site map showing sa	ampling point locations, transects, important features, etc.
Hydronhytic Vegetation Present? Ves	
Hydric Soil Procent? Ves \bigcirc No \bigcirc	Is the Sampled Area
Wetland Hydrology Present?	within a Wetland? Yes \bigcirc No $ullet$
Plot taken in an upland pine area.	
HYDROLOGY	
Wetland Hydrology Indicators:	Secondary Indicators (minimum of 2 required)
Primary Indicators (minimum of one required; check all that apply)	Surface Soil Cracks (B6)
Surface Water (A1)	13) Sparsely Vegetated Concave Surface (B8)
High Water Table (A2) Marl Deposits (B1	15) (LRR U) Drainage Patterns (B10)
Saturation (A3)	e Odor (C1) Moss Trim Lines (B16)
Water Marks (B1) Oxidized Rhizosph	heres along Living Roots (C3) Dry Season Water Table (C2)
Sediment Deposits (B2)	uced Iron (C4) Crayfish Burrows (C8)
Drift Deposits (B3)	uction in Tilled Soils (C6) Saturation Visible on Aerial Imagery (C9)
Algal Mat or Crust (B4)	ce (C7) Geomorphic Position (D2)
Iron Deposits (B5) Other (Explain in	Remarks) Shallow Aquitard (D3)
Inundation Visible on Aerial Imagery (B7)	FAC-Neutral Test (D5)
Water-Stained Leaves (B9)	Sphagnum moss (D8) (LRR T, U)
Field Observations:	
Surface Water Present? Yes Vo ODepth (inches):	:
Water Table Present? Yes O No O Depth (inches):	
Saturation Present? Yes No O Depth (inches):	Wetland Hydrology Present? Yes V NO V
Describe Recorded Data (stream gauge, monitoring well, aerial phot	tos, previous inspections), if available:
Remarks:	

VEGETATION (Five/Four Strata) -	Use scientific names of pla	nts.
-------------------------------------	-----	-----------------------------	------

		Dom	ninant		Sampling Point: 18
	Absolute	_ spe Rel.	Strat.	Indicator	Dominance Test worksheet:
Tree Stratum (Plot size: <u>30</u>)	% Cover	- Co	over	Status	Number of Dominant Species
Pinus taeda	90		90.0%	FAC	That are OBL, FACW, or FAC: (A)
llex opaca	10		10.0%	FAC	
	0		0.0%		Species Across All Strata: 6 (B)
	0		0.0%		
	0		0.0%		Percent of dominant Species
	0		0.0%	87 	That Are OBL, FACW, or FAC:83.3% (A/B)
	0		0.0%	<u>.</u>	Prevalence Index worksheet:
	0		0.0%		Total % Cover of Multiply by:
50% of Total Cover: 50 20% of Total Cover: 20	100	= Tota	al Cover		$\frac{1}{0}$
Sealing of Sealing (Shruh Stratum (Dist size: 20	<u> </u>				
Sapling of Sapling/Shrub Stratum (Plot Size. 30	/		00.00/	540	$\frac{1}{2} \frac{1}{2} \frac{1}$
			88.2%	FAC	FAC species 220 x 3 = 000
			11.8%	FAC	FACU species $\frac{15}{2}$ x 4 = $\frac{60}{2}$
·	0	<u> </u>	0.0%		UPL species $0 \times 5 = 0$
·	0		0.0%		Column Totals: <u>235</u> (A) <u>720</u> (B)
•	0	<u> </u>	0.0%		Prevalence Index = B/A = 3.064
·	0	<u> </u>	0.0%		
•	0	<u> </u>	0.0%		Hydrophytic vegetation Indicators:
	0	\Box	0.0%		1 - Rapid Test for Hydrophytic Vegetation
50% of Total Cover: 20% of Total Cover: 17	85	= Tota	al Cover		✓ 2 - Dominance Test is > 50%
Shrub Stratum (Plot size:					\square 3 - Prevalence Index is $\leq 3.0^{1}$
	0		0.0%		Droblematic Hydrophytic Vegetation 1 (Evaluin)
			0.0%		
•			0.0%		¹ Indicators of hydric soil and wetland hydrology mus
•			0.0%		be present, unless disturbed or problematic.
·	0		0.0%		Definition of Vegetation Strates
			0.0%		
•	0	\Box_{-}	0.0%		approximately 20 ft (6 m) or more in height and 3 in
50% of Total Cover: 0 20% of Total Cover: 0		= Tota	al Cover		(7.6 cm) or larger in diameter at breast height (DBH).
Herb Stratum (Plot size: <u>30</u>)					
1. Lonicera japonica	15		60.0%	FACU	Sapling - Woody plants, excluding woody vines,
2. Smilax glauca	10		40.0%	FAC	than 3 in. (7.6 cm) DBH.
3	0		0.0%		
Δ			0.0%		Sapling/Shrub - Woody plants, excluding vines, less
5			0.0%		than 3 in. DBH and greater than 3.28 ft (1m) tall.
6			0.0%		
7			0.0%		Shrub - Woody plants, excluding woody vines,
۶ ۶			0.0%		
0			0.0%		Herb - All herbaceous (non-woody) plants, including
ฮ ด		<u> </u>	0.0%		herbaceous vines, regardless of size, and woody
۰			0.0%		plants, except woody vines, less than approximately
1	0		0.0%		
2	0	\Box_{-}	0.0%		Weady viage All weady viage regardless of beight
50% of Total Cover: 12.5 20% of Total Cover: 5	25	= Tota	al Cover		woody vine - All woody vines, regardless of height.
Woody Vine Stratum (Plot size: <u>30</u>)					
Vitis rotundifolia	15		60.0%	FAC	
Smilax rotundifolia	10		40.0%	FAC	
	0		0.0%	8	
•			0.0%		
•			0.0%		Hydrophytic
					Vegetation Present? Yes No
50% of Total Cover: 12.5 20% of Total Cover: 5	25	= Tota	al Cover		
Remarks: (If observed, list morphological adaptations below).					
*Indicator suffix = National status or professional decision assigned because F	Regional status	not def	ined by F	WS.	Atlantic and Gulf Coastal Plain Region - Version 2.

SO	IL
----	----

Profile Descr	ription: (De	scribe to	the depth	needed to d	ocument	the indic	ator or co	nfirm the a	absence of indicators.))
Depth	epth Matrix Redox Features									
(inches)	Color (moist)	_%	Color (moist)	_%	Tvpe	Loc ²	Texture	Remarks
0-3	10YR	5/3	100						Silt Loam	
3-12	10YR	6/2	100						Silt Loam	
12-16	10YR	5/3	65	10YR	5/4				Silt Loam	
			-							
	u	-		·						· · · · · · · · · · · · · · · · · · ·
	-									
¹ Type: C=Con	centration. D	=Depletio	n. RM=Rec	luced Matrix, C	S=Covere	d or Coate	d Sand Gra	ins ² Loca	tion: PL=Pore Lining. M=	=Matrix
Hydric Soil I	ndicators:			_					Indicators for Pro	blematic Hydric Soils ³ :
	A1)			Poly	value Belo	w Surface	(S8) (LRR	S, T, U)	1 cm Muck (A9)	(LRR O)
Histic Epi	pedon (A2)			L Thir	n Dark Surf	face (S9) (I	LRR S, T, L	J)	2 cm Muck (A10)) (LRR S)
Black Hist	ic (A3)			Loa	my Mucky	Mineral (F	1) (LRR O)		Reduced Vertic	(F18) (outside MLRA 150A,B)
U Hydrogen	Sulfide (A4)			Loa	my Gleyed	Matrix (F2	2)		Piedmont Flood	plain Soils (F19) (LRR P, S, T)
Stratified	Layers (A5)			Dep	leted Matr	ix (F3)			Anomalous Brig	ht Loamy Soils (F20) (MLRA 153B)
Crganic B	odies (A6) (L	.RR P, T, L	J)	Red	ox Dark Sı	urface (F6)			Red Parent Mat	erial (TF2)
5 cm Muc	ky Mineral (A	47) (LRR P	, T, U)	Dep	leted Dark	Surface (F	7)		Very Shallow Da	ark Surface (TF12)
Muck Pres	sence (A8) (L	.RR U)		Red	ox Depres	sions (F8)			Other (Explain i	n Remarks)
1 cm Muc	k (A9) (LRR	P, T)		Mar	I (F10) (LR	RRU)				
	Below Dark S	Surface (A	11)	🗌 Dep	leted Ochr	ric (F11) (N	ILRA 151)			
Thick Dar	k Surface (A	12)		L Iron	n-Mangane	se Masses	(F12) (LRR	2 O, P, T)		
Coast Pra	irie Redox (A	16) (MLRA	A 150A)		bric Surfac	e (F13) (LF	RR P, T, U)			
Sandy Muck Mineral (S1) (LRR O, S)						³ Indicator	a of hydrophytic vegetation and			
Sandy Gleyed Matrix (S4)					150B)	wetland hydrology must be present,				
Sandy Redox (S5)						RA 149A)	unles	ss disturbed or problematic.		
Stripped N	Matrix (S6)			🗌 Ano	malous Bri	ight Loamy	Soils (F20) (MLRA 149	9A, 153C, 153D)	
Dark Surf	ace (S7) (LRI	R P, S, T, I	U)							
								1		
Restrictive L	ayer (if obs	erved):								
Туре:				_						
Depth (inches):							Hydric Soil Present	$r \to res \cup ro \bullet$		
Remarks:										

Project/Site: Coburn Lakes Subdivision	City/County: Tangipah	08	Sampling Date: 26-Oct-1	6	
Applicant/Owner: Robert Maurin	State: L	A Sampling	Point: 19		
Investigator(s): Hydrik-Kelly Turk	Section, Township, Ra	ange: S 28 T	6 S R 8 E		
Landform (hillslope, terrace, etc.): Flat	Local relief (concave, co	onvex, none): None	Slope: 0.0 % /	0.0 °	
Subregion (LRR or MLRA): MLRA 133A in LRR P Lat.:	30.499652	Long.: -90.40156	9 Datum: WGS84	4	
Soil Map Unit Name: (Go) Guyton silt loam, 0-1% slopes, rarely floode	b	NWI class	sification: None		
Are climatic/hydrologic conditions on the site typical for this time of ye	Yes 🖲 No		in Remarks)		
Are Vegetation Soil or Hydrology significant	lv disturbed? Are '	'Normal Circumstances	" present? Yes No		
	roblemetic?				
SUMMARY OF FINDINGS - Attach site map showing sa	mpling point locati	ons, transects, im	portant features, etc.		
Hydrophytic Vegetation Present? Ves 🔍 No			<u> </u>		
Hydric Soil Procent? Ves \bigcirc No \bigcirc	Is the Sampled	l Area	N		
Wetland Hydrology Present?	within a Wetla	nd? Yes \cup No $lacksquare$)		
	L				
Plot taken in an upland pine area.					
HYDROLOGY					
Wetland Hydrology Indicators:		Secondary India	cators (minimum of 2 required)		
Primary Indicators (minimum of one required; check all that apply)		Surface Soil	I Cracks (B6)		
Surface Water (A1)	3)	Sparsely Ve	getated Concave Surface (B8)		
High Water Table (A2) Marl Deposits (B1	5) (LRR U)	Drainage Pa	atterns (B10)		
Saturation (A3)	Odor (C1)	Moss Trim I	Lines (B16)		
Water Marks (B1)	eres along Living Roots (C3	3) Dry Season	Water Table (C2)		
Sediment Deposits (B2)	ed Iron (C4)	Crayfish Bu	rrows (C8)		
Drift Deposits (B3)	tion in Tilled Soils (C6)	Is (C6) Saturation Visible on Aerial Imagery (C9)			
Algal Mat or Crust (B4)	(C7) Geomorphic Position (D2)				
Iron Deposits (B5) Other (Explain in	≀emarks)	Shallow Aqu	uitard (D3)		
Inundation Visible on Aerial Imagery (B7)		FAC-Neutra	l Test (D5)		
Water-Stained Leaves (B9)		Sphagnum	moss (D8) (LRR T, U)		
Field Observations:					
Surface Water Present? Yes V No Depth (inches):					
Water Table Present? Yes O No O Depth (inches):					
Saturation Present? (includes capillary fringe) Yes O No O Depth (inches):	Wetla	and Hydrology Present?	' Yes ∪ INO ⊕		
Describe Recorded Data (stream gauge, monitoring well, aerial phot	os, previous inspections)), if available:			
Remarks:					

VEGETATION (Five/Four Strata) -	Use scientific names of pla	nts.
-------------------------------------	-----	-----------------------------	------

		Dominant Species?		Sampling Point: <u>19</u>		
	Absolute	Rel.Strat.	Indicator	Dominance Test worksheet:		
Tree Stratum (Plot size: <u>30</u>)	% Cover	Cover	Status	Number of Dominant Species		
Pinus taeda		95.0%	FAC	That are OBL, FACW, or FAC:6(A)		
		<u> </u>	FAC	Total Number of Dominant		
·				Species Across All Strata: <u>6</u> (B)		
·			·	Percent of dominant Species		
				That Are OBL, FACW, or FAC:(A/B)		
			- <u>-</u>	Provolonco Index workshoot		
				Total % Cover of Multiply by		
	100		- <u> </u>			
Combine on Some (Church Streeture (Plot size: 20	<u> </u>			$\begin{bmatrix} ACW \text{ species} & 0 & x^2 = 0 \end{bmatrix}$		
apling or Sapling/Shrub Stratum (Plot Size: 30)	1 02 49/	FAC	FAC expectes $0 \times 2 = 0$		
		11 00/		FAC species $243 \times 3 = 733$		
	<u>_</u>	<u> </u>		FACU species $10 \times 4 = 40$		
Nyssa sylvalica			FAC	$\begin{bmatrix} UPL \text{ specilles} & \underline{0} & x \text{ 5} = \underline{0} \\ \hline \end{bmatrix}$		
		0.0%		Column Totals: <u>255</u> (A) <u>775</u> (B)		
		0.0%		Prevalence Index = $B/A = 3.039$		
		0.0%		Hydrophytic Vegetation Indicators:		
		0.0%				
		- Total C		1 - Rapid Test for Hydrophytic Vegetation		
	85	= Total Cove		✓ 2 - Dominance Test is > 50%		
hrub Stratum (Plot size:)		_		3 - Prevalence Index is $\leq 3.0^{1}$		
	0	0.0%		Problematic Hydrophytic Vegetation ¹ (Explain)		
	0	0.0%				
	0	0.0%		Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.		
	0	0.0%				
·	0	0.0%		Definition of Vegetation Strata:		
·	0	0.0%	· <u></u>	Tree - Woody plants, excluding woody vines,		
50% of Total Cover: 0 20% of Total Cover: 0	0	= Total Cove	r	(7.6 cm) or larger in diameter at breast height (DBH).		
Herb Stratum (Plot size: <u>30</u>)						
1 <u>Rubus argutus</u>	15	30.0%	FAC	Sapling - Woody plants, excluding woody vines,		
2. Smilax glauca	15	30.0%	FAC	than 3 in. (7.6 cm) DBH.		
3. Gelsemium sempervirens	20	40.0%	FAC			
1	0	0.0%		Sapling/Shrub - Woody plants, excluding vines, less		
5	0	0.0%		than 3 in. DBH and greater than 3.28 ft (1m) tall.		
6	0	0.0%				
7	0	0.0%		approximately 3 to 20 ft (1 to 6 m) in height.		
3	0	0.0%				
9	0	0.0%		Herb - All herbaceous (non-woody) plants, including		
Э	0	0.0%	. <u>.</u>	plants, except woody vines, less than approximately		
1	0	0.0%	. <u>.</u>	3 ft (1 m) in height.		
2	0	0.0%				
50% of Total Cover:25 20% of Total Cover:10	50	= Total Cove	r	Woody vine - All woody vines, regardless of height.		
Noody Vine Stratum (Plot size: 30)						
Vitis rotundifolia	20	100.0%	FAC			
	0	0.0%				
		0.0%				
	0	0.0%				
		0.0%		Hydrophytic		
	0			Vegetation \frown		
•		- Total Cover	r	Present? Yes 🔍 No 🔾		

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)											
Depth Matrix Redox Features							_				
(inches)	Color (moist)	%	Color ((moist)	%		Loc ²	Texture	Remarks	
0-4	10YR	5/3							Silt Loam		
4-9	10YR	5/2							Silt Loam		
9-16	10YR	6/2	60	10YR	4/3	40	D	Μ	Silt Loam		
		s									
					·						
¹ Type: C=Con	centration. D	=Depletio	n. RM=Red	uced Matrix,	CS=Covere	ed or Coate	d Sand Gra	ains ² Loca	ation: PL=Pore Lining. M	=Matrix	
Hydric Soil I	ndicators:								Indicators for Pro	blematic Hydric Soils ³ :	
	A1)			Pol	yvalue Bel	ow Surface	(S8) (LRR	S, T, U)	1 cm Muck (A9)	(LRR O)	
	pedon (A2)			L Thi	in Dark Sur	face (S9) (I	LRR S, T, L	J)	2 cm Muck (A1	D) (LRR S)	
Black Hist	(A3)				amy Mucky	Mineral (F	1) (LRR O)		Reduced Vertic	(F18) (outside MLRA 150A,B)	
Hydrogen					amy Gleyeo	d Matrix (F2	2)		Piedmont Flood	plain Soils (F19) (LRR P, S, T)	
	Layers (A5)		I)		pleted Mat	rix (F3)			Anomalous Brig	ht Loamy Soils (F20) (MLRA 153B)	
	odies (A6) (L	.KK P, I, U	J)		dox Dark S	urface (F6)			Red Parent Mat	erial (TF2)	
		(7) (LKK P	, I, U)		pleted Darl	k Surface (H	-7)		Very Shallow D	ark Surface (TF12)	
		.КК U) D T)			aox Depres	ssions (F8)			Other (Explain	n Remarks)	
	Relow Dark S	Surface (A	11)		nlatad Och	KK U) ric (E11) (N					
Thick Dar	k Surface (A1	12)	,		pieted Och		(E12) (IDE				
	irie Redox (A	16) (MI RA	150A)		hric Surfac		(FIZ) (LKF DDD T II)	(U, P, T)			
Sandy Mu	ick Mineral (S	51) (LRR O), S)		Ita Ochric ((F17) (MLR)	(((1 , 1 , 0) \ 151)				
Sandy Gle	eved Matrix (S	S4)			duced Vert	ic (F18) (M	RA 150A	150B)	³ Indicators of hydrophytic vegetation and		
Sandy Re	dox (S5)			Pie	dmont Flor	odplain Soil	s (F19) (MI	RA 149A)	wetland hydrology must be present, unless disturbed or problematic		
Stripped N	Matrix (S6)				omalous Br	right Loamy	Soils (F20) (MLRA 14	9A. 153C. 153D)		
Dark Surf	Dark Surface (S7) (LRR P, S, T, U)										
Destrictive	over (if ehe										
	ayer (ii obs	erved):									
Depth (inc	hes).								Hydric Soil Present	? Yes 🔿 No 🖲	
Remarks:											
Reffidiks.											
l											

Project/Site: Coburn Lakes Subdivision	City/County: Tangipahoa Sampling Date: 26-Oct-16				
Applicant/Owner: Robert Maurin	State: LA Sampling Point: 20				
Investigator(s): Hydrik-Kelly Turk	Section, Township, Range: S 28 T 6 S R 8 E				
Landform (hillslope, terrace, etc.): Swale	Local relief (concave, convex, none): CONCAVE Slope: 6.0 % / 3.4 °				
Subregion (LRR or MLRA): MLRA 133A in LRR P Lat.:	30.499710 Long.: -90.399931 Datum: WGS84				
Soil Map Unit Name: (Go) Guyton silt loam, 0-1% slopes, rarely flooded	d NWI classification: None				
Are climatic/hydrologic conditions on the site typical for this time of yea	ar? Yes 🖲 No 🔿 (If no, explain in Remarks.)				
Are Vegetation 🗌 , Soil 🗌 , or Hydrology 🗌 significantl	ly disturbed? Are "Normal Circumstances" present? Yes $ullet$ No $igodot$				
Are Vegetation 🗌 , Soil 🗌 , or Hydrology 🗌 naturally p	roblematic? (If needed, explain any answers in Remarks.)				
SUMMARY OF FINDINGS - Attach site map showing sar	mpling point locations, transects, important features, etc.				
Hydrophytic Vegetation Present? Yes $ullet$ No $igodot$	Is the Sampled Area				
Hydric Soil Present? Yes 💿 No 🔿	$\frac{1}{2}$ We sampled Alca				
Wetland Hydrology Present? Yes $oldsymbol{O}$ No $igodoldsymbol{O}$	within a Wetland?				
Remarks: Plot taken in a hardwood wetland habitat. The area is a forested drat terminating at Selser's Creek	inage swale that meanders north to south on the project area ultimately				
HYDROLOGY					
Wetland Hydrology Indicators:	Secondary Indicators (minimum of 2 required)				
Primary Indicators (minimum of one required; check all that apply)	Surface Soil Cracks (B6)				
Surface Water (A1) Aquatic Fauna (B1) Aquatic Fauna (B1) Mart Deposite (D1)	3) ✓ Sparsely Vegetated Concave Surface (B8)				
Saturation (A3)	Drainage Patterns (B10)				
☐ Saturdation (x3) ☐ Nyarogen Saturdation (x3) ☐ Water Marks (B1) ✓ Oxidized Rhizosphe	eres along Living Roots (C3)				
Sediment Deposits (B2)	red Iron (C4) \checkmark Cravfish Burrows (C8)				
Drift Deposits (B3)	tion in Tilled Soils (C6) Saturation Visible on Aerial Imagery (C9)				
Algal Mat or Crust (B4) Thin Muck Surface	e (C7) Geomorphic Position (D2)				
Iron Deposits (B5) Other (Explain in R	Remarks) Shallow Aquitard (D3)				
Inundation Visible on Aerial Imagery (B7)	FAC-Neutral Test (D5)				
Water-Stained Leaves (B9)	Sphagnum moss (D8) (LRR T, U)				
Field Observations:					
Surface Water Present? Yes Vo Vo Depth (inches):					
Water Table Present? Yes Vo O Depth (inches):					
Saturation Present? Yes No O Depth (inches):					
Describe Recorded Data (stream gauge, monitoring well, aerial photo Remarks:	os, previous inspections), if available:				
VEGETATION (Five/Four Strata) - Use scientific names of plants.

		D	ominant		Sampling Point: 20		
	Absolute	_ 3	el.Strat.	Indicator	Dominance Test worksheet:		
<u>Tree Stratum</u> (Plot size: <u>30</u>)	% Cover		Cover	Status	Number of Dominant Species		
1. Magnolia virginiana	15		16.7%	FACW	That are OBL, FACW, or FAC:		
2. Nyssa biflora	60	✓	66.7%	OBL			
3. Quercus laurifolia	15		16.7%	FACW	Total Number of Dominant Species Across All Strata: 5 (B)		
4.	0		0.0%				
5	0	\square	0.0%		Percent of dominant Species		
8	0	\square	0.0%		That Are OBL, FACW, or FAC:(A/B)		
7			0.0%	·			
0			0.0%				
			0.0%		Iotal % Cover of: Multiply by:		
50% of lotal Cover: 45 20% of lotal Cover: 18	90	= 10	otal Cover	-	OBL species 75 x 1 = 75		
Sapling or Sapling/Shrub Stratum (Plot size: 30	_)	_			FACW species <u>120</u> $x 2 = 240$		
1. Cyrilla racemifiora	50		71.4%	FACW	FAC species $0 \times 3 = 0$		
2. Itea virginica	20		28.6%	FACW	FACU species $0 \times 4 = 0$		
3	0		0.0%		UPL species $0 \times 5 = 0$		
4	0		0.0%		Column Totals: 195 (A) 315 (B)		
5	0		0.0%				
6	0		0.0%		Prevalence Index = B/A = <u>1.615</u>		
7.	0		0.0%		Hydrophytic Vegetation Indicators:		
8	0	\square	0.0%				
	70	-			■ 1 - Rapid Test for Hydrophytic Vegetation		
50% of 10tal cover: 35 20% of 10tal cover: 14	/0	= 10	otal Cover	7	✓ 2 - Dominance Test is > 50%		
Shrub Stratum (Plot size:)					✓ 3 - Prevalence Index is \leq 3.0 ¹		
1	0		0.0%		Problematic Hydrophytic Vegetation ¹ (Explain)		
2	0		0.0%				
3	0		0.0%		¹ Indicators of hydric soil and wetland hydrology must		
4.	0		0.0%		be present, unless disturbed or problematic.		
5		\square	0.0%		Definition of Vegetation Strata:		
6		\square	0.0%		Tree - Woody plants, excluding woody vines,		
50% of Total Cover: 0 20% of Total Cover: 0		_ т	otal Cove		approximately 20 ft (6 m) or more in height and 3 in.		
					(7.6 cm) or larger in diameter at breast height (DBH).		
<u>Herb Stratum</u> (Plot size: <u>30</u>)							
1. Woodwardia areolata	15	✓	100.0%	OBL	Sapling - Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less		
2	0		0.0%		than 3 in. (7.6 cm) DBH.		
3.	0		0.0%				
4.	0		0.0%		Sapling/Shrub - Woody plants, excluding vines, less		
5	0	\square	0.0%		than 3 in. DBH and greater than 3.28 ft (1m) tall.		
6	0		0.0%				
7			0.0%		Shrub - Woody plants, excluding woody vines,		
8	- <u> </u>		0.0%				
0			0.0%		Herb - All herbaceous (non-woody) plants, including		
10			0.00/		herbaceous vines, regardless of size, and woody		
			0.0%		plants, except woody vines, less than approximately		
11	0		0.0%				
12	0		0.0%		Weady vina All woody vinage recordings of beight		
50% of Total Cover: <u>7.5</u> 20% of Total Cover: <u>3</u>	15	= T(otal Cover	-	woody vine - All woody vines, regardless of neight.		
Woody Vine Stratum (Plot size: 30)							
1 Smilax laurifolia	20		100.0%	FACW			
2	0		0.0%				
3			0.0%				
Δ.	- <u> </u>		0.0%				
۲۰ ۶			0.0%	· — —	Hydrophytic		
			0.0%	·	Vegetation		
50% of Total Cover: 10 20% of Total Cover: 4		= T(otal Cover	-			
Remarks: (If observed, list morphological adaptations below).							
*Indicator suffix = National status or professional decision assigned because R	egional status	not	defined by F	WS.			

Profile Descr	ription: (De	scribe to	the depth	needed to d	locument	t the indic	ator or co	onfirm the	absence of indicators.)			
Depth		Matrix		_								
(inches)	Color (moist)	%	Color (moist)	%		Loc ²	Texture Remarks			
0-3	10YR	3/2	100						Peat			
3-7	10YR	4/1	100						Silt Loam			
7-16	10YR	6/1	90	10YR	5/6	10	D	М	Silty Clay Loam			
			·	·								
	u	8	- <u></u>	·								
¹ Type: C=Concentration. D=Depletion. RM=Reduced Matrix, CS=Covered or Coated Sand Grains ² Location: PL=Pore Lining. M=Matrix												
Hydric Soil I	ndicators:								Indicators for Problematic Hydric Soils ³ :			
Histosol (A1)			Poly	value Bel	ow Surface	(S8) (LRR	S, T, U)	1 cm Muck (A9) (LRR O)			
Histic Epi	pedon (A2)			🗌 Thir	n Dark Sur	face (S9) (LRR S, T, I	J)	2 cm Muck (A10) (LRR S)			
Black Hist	ic (A3)			Loa	my Mucky	Mineral (F	1) (LRR O)		Reduced Vertic (F18) (outside MLRA 150A,B)			
Hydrogen	Sulfide (A4)			Loa	my Gleyeo	d Matrix (F2	?)		Piedmont Floodplain Soils (F19) (LRR P, S, T)			
Stratified	Layers (A5)			🗹 Dep	leted Mat	rix (F3)			Anomalous Bright Loamy Soils (F20) (MLRA 153B)			
Organic B	odies (A6) (L	.RR P, T, L	J)	Red	lox Dark S	urface (F6)			Red Parent Material (TF2)			
5 cm Muc	ky Mineral (A	(LRR P	, T, U)	Dep	leted Darl	k Surface (I	7)		Very Shallow Dark Surface (TF12)			
Muck Presence (A8) (LRR U)									Other (Explain in Remarks)			
1 cm Muc	k (A9) (LRR	P, T)		Mar	I (F10) (LI	rr U)						
	Below Dark S	Surface (A	11)		leted Och	ric (F11) (N	/LRA 151)					
Thick Dar	k Surface (A1	12)		L Iror	n-Mangane	ese Masses	(F12) (LRI	R O, P, T)				
Coast Pra	irie Redox (A	16) (MLRA	A 150A)	Um Um	bric Surfac	ce (F13) (LI	RR P, T, U)	1				
Sandy Muck Mineral (S1) (LRR O, S)									³ Indicators of hydrophytic vegetation and			
Sandy Gle	eyed Matrix (54)		Red	luced Vert	ic (F18) (M	LRA 150A,	150B)	wetland hydrology must be present,			
	dox (S5)				dmont Floo	odplain Soil	s (F19) (M	LRA 149A)	unless disturbed or problematic.			
	Vatrix (S6)		N.		malous Br	right Loamy	Soils (F20) (MLRA 14	9A, 153C, 153D)			
	ace (S7) (LRI	< Ρ, 5 , Ι, ι	U)									
Restrictive L	ayer (if obs	erved):										
Туре:												
Depth (inc	hes):								Hydric soli Present? Yes S NO C			
Remarks:												
I												

WETLAND DETERMINATION DATA FORM - Atlantic and Gulf Coastal Plain Region

Project/Site: Coburn Lakes Subdivision	City/County: Tangipahoa Sampling Date: 26-C	Oct-16
Applicant/Owner: Robert Maurin	State: LA Sampling Point: 21	
Investigator(s): Hydrik-Kelly Turk	Section, Township, Range: S 28 T 6 S R 8 E	
Landform (hillslope, terrace, etc.): Flat	Local relief (concave, convex, none): none Slope: 0.0 %	/ 0.0 °
Subregion (LRR or MLRA): MLRA 133A in LRR P Lat.:	30.500717 Long.: -90.404566 Datum: W	/GS84
Soil Map Unit Name: (Go) Guyton silt loam, 0-1% slopes, rarely flood	ed NWI classification: None	
Are climatic/hydrologic conditions on the site typical for this time of y	ar? Yes • No · (If no, explain in Remarks.)	
Are Vegetation Soil or Hydrology significant	tly disturbed? Are "Normal Circumstances" present? Yes 🔍 No	0
Are Vegetation, Soil, or Hydrology naturally	problematic? (If needed, explain any answers in Remarks.)	
SUMMARY OF FINDINGS - Attach site map showing s	impling point locations, transects, important features, etc.	
Hydrophytic Vegetation Present? Yes $ullet$ No $igodot$	Is the Sampled Area	
Hydric Soil Present? Yes No		
Wetland Hydrology Present? Yes O No 💿	within a Wetland?	
Remarks: Plot taken in an upland pine habitat.		
Wetland Hydrology Indicators:	Secondary Indicators (minimum of 2 required)	_
Primary Indicators (minimum of one required; check all that apply	Surface Soil Cracks (B6)	
Surface Water (AT) Aquatic Fauna (E Aq	Sparsely vegetated Concave Surface (B8) Drainage Datterps (B10)	
Saturation (A3)	Odor (C1) Moss Trim Lines (B16)	
Water Marks (B1)	heres along Living Roots (C3)	
Sediment Deposits (B2)	iced Iron (C4) \Box Cravfish Burrows (C8)	
Drift Deposits (B3)	iction in Tilled Soils (C6)	
Algal Mat or Crust (B4)	e (C7) Geomorphic Position (D2)	
Iron Deposits (B5) Other (Explain ir	Remarks) Shallow Aquitard (D3)	
Inundation Visible on Aerial Imagery (B7)	FAC-Neutral Test (D5)	
Water-Stained Leaves (B9)	Sphagnum moss (D8) (LRR T, U)	
Field Observations:		
Surface Water Present? Yes O No O Depth (inches)		
Water Table Present? Yes O No O Depth (inches)		
Saturation Present? Yes O No O Depth (inches)	Wetland Hydrology Present? Yes V No •	
Describe Recorded Data (stream gauge, monitoring well, aerial pho	os, previous inspections), if available:	
Remarks:		

VEGETATION (Five/Four Strata) - Use scientific names of plants.

		Dom	ninant		Sampling Point: 21			
	Absolute	Rel.	Strat.	Indicator	Dominance Test worksheet:			
(Plot size: _30)	% Cover	<u> </u>	over	Status	Number of Dominant Species			
1. Pinus taeda	90		100.0%	FAC	That are OBL, FACW, or FAC:6 (A)			
2	0	<u> </u>	0.0%		Total Number of Dominant			
3	0		0.0%		Species Across All Strata: 7 (B)			
4	0		0.0%					
5	0		0.0%		Percent of dominant Species			
6	0	\Box_{-}	0.0%		That are OBL, FACW, OF FAC:			
7	0		0.0%		Prevalence Index worksheet:			
8	0		0.0%		Total % Cover of: Multiply by:			
50% of Total Cover: 20% of Total Cover: 18	90 =	= Tota	al Cover		OBL species x 1 =			
Sapling or Sapling/Shrub Stratum (Plot size: 30	_)				FACW species x 2 =			
1. Ilex vomitoria	75		88.2%	FAC	FAC species245 x 3 =735			
2. Quercus nigra	10		11.8%	FAC	FACU species20 x 4 =80			
3	0		0.0%		UPL species x 5 =			
4	0		0.0%		Column Totals: 265 (A) 815 (B)			
5	0		0.0%					
6	0		0.0%		Prevalence Index = B/A = <u>3.075</u>			
7	0		0.0%		Hydrophytic Vegetation Indicators:			
8	0		0.0%		1 Daniel Toot for Hudronbutic Variation			
50% of Total Cover: 42.5 20% of Total Cover: 17	85 -	- Tota	al Cover					
		- 1010			✓ 2 - Dominance Test is > 50%			
Shrub Stratum (Plot size:)					\square 3 - Prevalence Index is \leq 3.0 ¹			
1	0		0.0%		Problematic Hydrophytic Vegetation ¹ (Explain)			
2	0		0.0%		1			
3	0		0.0%		¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.			
4	0	\square_{-}	0.0%		be present, unless distarbed of problematic.			
5	0	\Box_{-}	0.0%		Definition of Vegetation Strata:			
6	0	\Box_{-}	0.0%		Tree - Woody plants, excluding woody vines,			
50% of Total Cover: 20% of Total Cover:0	=	= Tota	al Cover		(7.6 cm) or larger in diameter at breast height (DBH).			
Herb Stratum (Plot size: <u>30</u>)								
1. Rubus argutus	15		21.4%	FAC	Sapling - Woody plants, excluding woody vines,			
2. Gelsemium sempervirens	35		50.0%	FAC	than 3 in. (7.6 cm) DBH.			
3. Lonicera japonica	20		28.6%	FACU				
4	0		0.0%		Sapling/Shrub - Woody plants, excluding vines, less			
5	0		0.0%		than 3 in. DBH and greater than 3.28 ft (1m) tall.			
6			0.0%					
7			0.0%		Shrub - Woody plants, excluding woody vines,			
8			0.0%					
0	- <u> </u>		0.0%		Herb - All herbaceous (non-woody) plants, including			
10			0.0%		herbaceous vines, regardless of size, and woody			
11			0.0%		plants, except woody vines, less than approximately 3 ft (1 m) in height.			
12			0.0%					
IC.			0.0%		Woody vine - All woody vines, regardless of height.			
		- 1012	ai cover					
Woody Vine Stratum (Plot size: <u>30</u>)								
1. Smilax rotundifolia	10		50.0%	FAC				
2. Vitis rotundifolia	10		50.0%	FAC				
3	0		0.0%					
4	0		0.0%					
5	0	\Box	0.0%		Hyarophytic Vegetation — — —			
50% of Total Cover: 20% of Total Cover:		= Tota	al Cover		Present? Yes $ullet$ No $igcup$			
Demarks: (If observed, list morphological adaptations bolow)					l			
Remarks: (11 observed, list morphological adaptations below).								
*Indicator suffix = National status or professional decision assigned because Re	egional status	not def	fined by FV	/S.				

Profile Desc	ription: (De	scribe to	the depth	needed to d	locument	the indic	ator or co	onfirm the	absence of indicators.)		
Depth		Matrix			_							
(inches)	<u>Color (</u>	moist)	%	<u>Color (</u>	moist)	%	Tvpe	Loc ²	Texture	Remarks		
0-4	10YR	4/2	100						Silt Loam			
4-8	10YR	6/3	75	10YR	4/6	15	RM	М	Silt Loam			
8-16	10YR	6/4	65	10YR	5/6	35	RM	М	Silt Loam			
									<u></u>			
				-	-			-	- <u>-</u>	· · · ·		
		-	-									
¹ Type: C=Concentration. D=Depletion. RM=Reduced Matrix, CS=Covered or Coated Sand Grains ² Location: PL=Pore Lining. M=Matrix												
Hydric Soil	Hydric Soil Indicators: Indicators for Problematic Hydric Soils ³ :											
Histosol (A1)			Pol	vvalue Belo	ow Surface	(S8) (LRR	S, T, U)				
Histic Epi	pedon (A2)			Thi	n Dark Sur	face (S9) (LRR S, T, I	J)) (LRR S)		
Black Hist	tic (A3)			Loa	imy Mucky	Mineral (F	1) (LRR O)		Reduced Vertic	(F18) (outside MLRA 150A B)		
Hydrogen	n Sulfide (A4)			Loa	imy Gleyed	d Matrix (F2	2)		Piedmont Flood	plain Soils (F19) (LRR P. S. T)		
Stratified	Layers (A5)			🗸 De	pleted Mat	rix (F3)			Anomalous Brig	ht Loamy Soils (F20) (MLRA 153B)		
Organic E	Bodies (A6) (L	.RR P, T, L	J)	Red	dox Dark S	urface (F6)			Red Parent Mat	erial (TF2)		
5 cm Muc	ky Mineral (A	47) (LRR P	, T, U)	🗌 De	pleted Dark	< Surface (I	7)		Very Shallow Da	ark Surface (TF12)		
Muck Presence (A8) (LRR U)									Other (Explain i	n Remarks)		
□ 1 cm Muck (A9) (LRR P, T) □ Marl (F10) (LRR U)												
Depleted Below Dark Surface (A11)												
hick Dar	k Surface (A1	12) 4 () (NH DA	4504)	L Iro	n-Mangane	ese Masses	(F12) (LRI	R O, P, T)				
Coast Pra	iirie Redox (A	16) (MLRA	A 150A)	Um Um	bric Surfac	ce (F13) (LI	RR P, T, U)					
	ICK Mineral (S	51) (LRR U 54)	(, 5)		ta Ochric (F17) (MLR	A 151)		³ Indicator	s of hydrophytic vegetation and		
	dov (SE)	54)			Juced Vert	ic (F18) (M	LRA 150A,	150B)	wetland hydrology must be present,			
	Matrix (S6)				dmont Floo	odplain Soil	s (F19) (M	LRA 149A)	unle:	ss disturbed or problematic.		
	ace (S7) (LR	грути	D		omaious Br	ight Loamy	Solis (F2U)) (IVILRA 14	9A, 153C, 153D)			
		(1,0,1,	5)									
	(16.1											
Restrictive L	ayer (if obs	ervea):										
Dopth (inc	hoc).								Hydric Soil Present? Yes No			
Deptil (Inc	nes).								-			
Remarks:												

WETLAND DETERMINATION DATA FORM - Atlantic and Gulf Coastal Plain Region

Project/Site: Coburn Lakes Subdivision	City/County: Tangipahoa Sampling Date: 26-Oct-16
Applicant/Owner: Robert Maurin	State: LA Sampling Point: 22
Investigator(s): Hydrik-Kelly Turk	Section, Township, Range: S 28 T 6 S R 8 E
Landform (hillslope, terrace, etc.): Flat	Local relief (concave, convex, none): None Slope: 0.0 % / 0.0 °
Subregion (LRR or MLRA): MLRA 133A in LRR P Lat.:	30,499384 Long.: -90,405178 Datum: WGS84
Soil Man Unit Name: (Go) Guyton silt loam, 0-1% slopes, rarely floode	ed NWL classification: None
Are climatic /bydrologic conditions on the site typical for this time of ye	$\frac{1}{2}$
Are Vegetation Soil or Hydrology significant	$\frac{1}{100} = \frac{1}{100} = \frac{1}$
SUMMARY OF FINDINGS - Attach site map showing sa	ampling point locations, transects, important features, etc.
Hydrophytic Vegetation Present? Yes No O	Is the Sampled Area
Hydric Soil Present? Yes Vo V	within a Wetland? Yes $ullet$ No $igloodow$
Wetland Hydrology Present? Yes Volume No	
Remarks: Plottaken in a watland mixed nino/bardwood babitat	
Plottaken in a wetiand mixed pine/nardwood habitat.	
L HYDROLOGY	
Wetland Hydrology Indicators:	Cocondony Indicators (minimum of 2 required)
Primary Indicators (minimum of one required; check all that apply)) Surface Soil Cracks (B6)
Surface Water (A1)	313) Sparsely Vegetated Concave Surface (B8)
High Water Table (A2)	15) (LRR U) Drainage Patterns (B10)
Saturation (A3)	e Odor (C1) Moss Trim Lines (B16)
Water Marks (B1) Vidized Rhizospl	wheres along Living Roots (C3) Dry Season Water Table (C2)
Sediment Deposits (B2)	uced Iron (C4) Crayfish Burrows (C8)
Drift Deposits (B3)	uction in Tilled Soils (C6) Saturation Visible on Aerial Imagery (C9)
Algal Mat or Crust (B4)	ce (C7) Geomorphic Position (D2)
Iron Deposits (B5) Other (Explain in	I Remarks) Shallow Aquitard (D3)
Inundation Visible on Aerial Imagery (B7)	✓ FAC-Neutral Test (D5)
Water-Stained Leaves (B9)	Sphagnum moss (D8) (LRR T, U)
Field Observations:	
Surface water Present? Tes C NO C Depth (inches):	·]
Water Table Present? Yes V No Depth (inches):	: Wetland Hydrology Present? Yes O No O
(includes capillary fringe) Yes No Depth (inches):	·
Describe Recorded Data (stream gauge, monitoring well, aerial phot	tos, previous inspections), if available:
Remarks:	

VEGETATION (Five/Four Strata) - Use scientific names of plants.

		Do	ominant		Sampling Point: 22		
	Absolute	_ > Re	el.Strat.	Indicator	Dominance Test worksheet:		
Tree Stratum (Plot size: <u>30</u>)	% Cover		Cover	Status	Number of Deminant Species		
1. Nyssa sylvatica	35	✓	46.7%	FAC	That are OBL, FACW, or FAC: 9 (A)		
2. Magnolia virginiana	25		33.3%	FACW			
3 Acer rubrum	15		20.0%	FAC	Total Number of Dominant		
Δ		\square	0.0%		Species Across All Strata: <u>9</u> (b)		
т Б			0.0%	·	Percent of dominant Species		
6			0.0%	·	That Are OBL, FACW, or FAC:(A/B)		
0			0.0%	·			
7			0.0%		Prevalence Index worksheet:		
8	0	Ш.	0.0%		Total % Cover of: Multiply by:		
50% of Total Cover: <u>37.5</u> 20% of Total Cover: <u>15</u>	75	= Tc	otal Cove	-	OBL species <u>65</u> x 1 = <u>65</u>		
Sapling or Sapling/Shrub Stratum (Plot size: 30	_)				FACW species x 2 = 80		
1. Pinus taeda	15	∕.	33.3%	FAC	FAC species x 3 =375		
2. Acer rubrum	15		33.3%	FAC	FACU species $0 \times 4 = 0$		
3. Nyssa sylvatica	15	\checkmark	33.3%	FAC	$\frac{1}{100} \times 5 = 0$		
4			0.0%				
5	0		0.0%		$(a) = \frac{520}{520}$		
5			0.0%		Prevalence Index = B/A = 2.261		
7			0.0%		Hydrophytic Vegetation Indicators:		
0			0.0%				
0		ш.	0.0%		1 - Rapid Test for Hydrophytic Vegetation		
50% of Total Cover: 22.5 20% of Total Cover:9	45	= Tc	otal Cove	-	✓ 2 - Dominance Test is > 50%		
Shrub Stratum (Plot size:)					✓ 3 - Prevalence Index is \leq 3.0 ¹		
1. Morella cerifera	30	\checkmark	100.0%	FAC	Problematic Hydrophytic Vegetation ¹ (Explain)		
2	0		0.0%				
3			0.0%		¹ Indicators of hydric soil and wetland hydrology must		
δ			0.0%	·	be present, unless disturbed or problematic.		
4			0.070	·	Definition of Vegetation Strata:		
5			0.0%	·	Tree Weedy plants, evaluating weedy vince		
0	0	Ш.	0.0%	·	approximately 20 ft (6 m) or more in height and 3 in.		
50% of Total Cover: <u>15</u> 20% of Total Cover: <u>6</u>	30	= Tc	otal Cove	r	(7.6 cm) or larger in diameter at breast height (DBH).		
Herb Stratum (Plot size: <u>30</u>)							
1. Carex glaucescens	35	✓	43.8%	OBL	Sapling - Woody plants, excluding woody vines,		
2. Eleocharis parvula	20		25.0%	OBL	than 3 in. (7.6 cm) DBH.		
3 Saccharum giganteum	15		18.8%	FACW			
4 Friocaulon decangulare	10		12.5%	OBI	Sapling/Shrub - Woody plants, excluding vines, less		
5			0.0%		than 3 in. DBH and greater than 3.28 ft (1m) tall.		
5 6			0.0%				
7			0.0%		Shrub - Woody plants, excluding woody vines,		
/			0.0%		approximately 3 to 20 it (1 to 6 m) in height.		
0			0.0%		Herb - All herbaceous (non-woody) plants, including		
9			0.0%		herbaceous vines, regardless of size, and woody		
10	0		0.0%		plants, except woody vines, less than approximately		
11	0		0.0%		3 ft (1 m) in height.		
12	0	\square	0.0%				
50% of Total Cover: 20% of Total Cover:16	80	= To	otal Cove	r -	Woody vine - All woody vines, regardless of height.		
Woody Vine Stratum (Plot size:)							
1	0	\square	0.0%				
2	0		0.0%				
3	- <u> </u>		0.0%				
Λ			0.0%	·			
Б.			0.0%	·	Hydrophytic		
J		ш.	0.0%		Vegetation		
50% of Total Cover: 0 20% of Total Cover: 0	0	= To	otal Cove	-			
Remarks: (If observed, list morphological adaptations below)							

*Indicator suffix = National status or professional decision assigned because Regional status not defined by FWS.

Profile Descr	ription: (De	scribe to	the depth	needed to d	locument	the indic	ator or co	onfirm the	absence of indicators.)			
Depth		Matrix				_						
(inches)	Color (moist)	%	Color (moist)	%	Tvpe ¹	Loc ²	Texture	Remarks		
0-4	10YR	4/1	100						Silt Loam			
4-7	10YR	5/1	100						Silt Loam			
7-16	10YR	6/1	90	10YR	6/8	10	RM	М	Silty Clay			
н		-		-					·			
									·			
¹ Type: C=Con	¹ Type: C=Concentration. D=Depletion. RM=Reduced Matrix, CS=Covered or Coated Sand Grains ² Location: PL=Pore Lining. M=Matrix											
Hydric Soil I	ndicators:								Indicators for Prob	plematic Hydric Soils ³ :		
	A1)			Pol	yvalue Bel	ow Surface	(S8) (LRR	2 S, T, U)	1 cm Muck (A9)	(LRR O)		
Histic Epip	pedon (A2)			🗌 Thi	n Dark Sur	face (S9) ((LRR S, T,	U)	2 cm Muck (A10) (LRR S)		
Black Hist	tic (A3)			Loa	imy Mucky	Mineral (F	1) (LRR 0)	Reduced Vertic	(outside MLRA 150A,B)		
Hydrogen	Sulfide (A4)			Loa	imy Gleyed	d Matrix (F	2)		Piedmont Flood	plain Soils (F19) (LRR P, S, T)		
Stratified	Layers (A5)			🖌 De	pleted Mat	rix (F3)			Anomalous Brigh	nt Loamy Soils (F20) (MLRA 153B)		
Organic B	Bodies (A6) (L	RR P, T, U	J)	Red	dox Dark S	urface (F6))		Red Parent Mate	rial (TF2)		
5 cm Muc	ky Mineral (A	47) (LRR P	P, T, U)	🗌 De	pleted Darl	k Surface (F7)		Verv Shallow Da	rk Surface (TF12)		
Muck Pres	sence (A8) (L	RR U)		Rec	lox Depres	sions (F8)			Other (Evalain in Remarks)			
1 cm Muck (A9) (LRR P, T) Marl (F10) (LRR U)												
Depleted	Below Dark S	Surface (A	11)	🗌 De	pleted Och	ric (F11) (I	MLRA 151)					
Thick Dar	k Surface (A	12)		Iro	n-Mangane	ese Masses	(F12) (LR	R O, P, T)				
Coast Prai	irie Redox (A	.16) (MLR/	A 150A)	🗌 Um	bric Surfac	ce (F13) (L	RR P, T, U)				
Sandy Mu	ick Mineral (S	61) (LRR C), S)	🗌 Del	ta Ochric ((F17) (MLR	A 151)		³ Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.			
Sandy Gle	eyed Matrix (S4)		Red	duced Vert	ic (F18) (N	ILRA 150A	, 150B)				
Sandy Ree	dox (S5)			Pie	dmont Floo	odplain Soi	ls (F19) (N	1LRA 149A)				
Stripped M	Matrix (S6)			🗌 And	omalous Br	ight Loam	y Soils (F2	0) (MLRA 14	49A, 153C, 153D)			
Dark Surfa	ace (S7) (LRI	R P, S, T,	U)									
Restrictive La	ayer (if obs	erved):										
Type:	,											
Depth (incl	hes):								Hydric Soil Present? Yes 💿 No 🔿			
Remarks:	- M-											
rtomartor												

WETLAND DETERMINATION DATA FORM - Atlantic and Gulf Coastal Plain Region

Project/Site: Coburn Lakes Subdivision	City/County: Tangi	pahoa	Sampling Date:	26-Oct-16
Applicant/Owner: Robert Maurin	State:	LA Samp	oling Point: 23	
Investigator(s): Hydrik-Kelly Turk	Section, Township,	, Range: S 28	T ₆ S R	8 E
Landform (hillslope, terrace, etc.): Hillside	Local relief (concave	e, convex, none):	nvex Slope:	6.0 % / 3.4 °
Subregion (LRR or MLRA): MLRA 133A in LRR P Lat.:	30.498696	Long.: -90.4()4441 D :	atum: WGS84
Soil Map Unit Name: (Go) Guyton silt loam, 0-1% slopes, rarely floode	d	NWI	classification: None	
Are climatic/hydrologic conditions on the site typical for this time of year	ar? Yes 🔍	No O (If no, exp	plain in Remarks.)	
Are Vegetation, Soil, or Hydrology significant	ly disturbed? A	re "Normal Circumsta	inces" present? Yes	• _{No} O
Are Vegetation Soil or Hydrology naturally r	roblematic? (If needed explain any	, v answers in Remarks)	
SUMMARY OF FINDINGS - Attach site map showing sa	mpling point loca	ations, transects	, important feature	es, etc.
Hydrophytic Vegetation Present? Yes \odot No \bigcirc	le the Comm			
Hydric Soil Present? Yes O No 🖲	is the samp			
Wetland Hydrology Present? Yes O No •	within a We	tland?		
Remarks:				
Plot taken in an upland pine habitat.				
HYDROLOGY				
Wetland Hydrology Indicators:		Secondary	/ Indicators (minimum of 2	required)
Primary Indicators (minimum of one required; check all that apply)		Surfac	e Soil Cracks (B6)	
Surface Water (A1)	3)	Sparse	ely Vegetated Concave Surfa	ace (B8)
High Water Table (A2) Marl Deposits (B1	5) (LRR U)	Draina	ige Patterns (B10)	
Saturation (A3) Hydrogen Sulfide	Odor (C1)		Trim Lines (B16)	
Water Marks (B1) Oxidized Rhizospr Oxidized Rhizospr	eres along Living Roots	(C3) Dry Se	ason Water Table (C2)	
Drift Deposits (B2)	ction in Tilled Soils (C6)		sn Burrows (C8)	on (CO)
Algal Mat or Crust (B4)			orphic Position (D2)	эгу (С9)
Iron Deposits (B5)	Remarks)	Shallo	w Aquitard (D3)	
Inundation Visible on Aerial Imagery (B7)	(emarks)	FAC-N	eutral Test (D5)	
Water-Stained Leaves (B9)		Sphag	num moss (D8) (LRR T, U)	
Field Observations:				
Surface Water Present? Yes O No O Depth (inches):				
Water Table Present? Yes O No O Depth (inches):				\sim
Saturation Present? Ves No Depth (inches):	W	etland Hydrology Pres	sent? Yes \bigcirc No	
(includes capillary fringe) 100 0 100 0 Depth (includes).		ns) if available:		
Describe Recorded Data (stream gauge, monitoring weil, aenai priot	os, previous inspectio	ins), il avaliable.		
Demonto				
Remarks:				

VEGETATION (Five/Four Strata) -	Use scientific names of pla	nts.
-------------------------------------	-----	-----------------------------	------

· · · · · · · · · · · · · · · · · · ·		D	ominant		Sampling Point: 23		
	Absolute	R	el.Strat.	Indicator	Dominance Test worksheet:		
Tree Stratum (Plot size: <u>30</u>)	% Cover		Cover	Status	Number of Dominant Species		
Pinus taeda	90	✓	90.0%	FAC	That are OBL, FACW, or FAC: <u>6</u> (A)		
Ilex opaca	10		10.0%	FAC			
	0		0.0%		Species Across All Strata: 6 (B)		
	0		0.0%				
	0		0.0%		Percent of dominant Species		
	0		0.0%		That Are OBL, FACW, or FAC:		
	0		0.0%		Prevalence Index worksheet:		
	0		0.0%		Total % Cover of: Multiply by:		
50% of Total Cover: 50 20% of Total Cover: 20	100 :	= то	otal Cove	-	OBL species 0 x 1 = 0		
Sapling or Sapling/Shrub Stratum (Plot size: 30)				FACW species $0 \times 2 = 0$		
liex vomitoria	65	\checkmark	86.7%	FAC	FAC species 245 x 3 = 735		
Liquidambar styraciflua	10	\square	13.3%	FAC	$\mathbf{FACII} \mathbf{species} \qquad 10 \qquad \mathbf{x} \mathbf{A} = 40$		
			0.0%				
			0.0%				
			0.0%		Column Totals: <u>255</u> (A) <u>775</u> (B)		
			0.0%		Prevalence Index = B/A = <u>3.039</u>		
			0.0%	·	Hydrophytic Vegetation Indicators:		
·			0.0%	·			
			0.0%	·	☐ 1 - Rapid Test for Hydrophytic Vegetation		
50% of Total Cover: <u>37.5</u> 20% of Total Cover: <u>15</u>		= To	otal Cove	-	✓ 2 - Dominance Test is > 50%		
Shrub Stratum (Plot size: <u>30</u>)					□ 3 - Prevalence Index is \leq 3.0 ¹		
Morella cerifera	10	✓	100.0%	FAC	Problematic Hydrophytic Vegetation ¹ (Explain)		
	0		0.0%				
	0		0.0%		¹ Indicators of hydric soil and wetland hydrology mus		
	0		0.0%		be present, unless disturbed or problematic.		
	0		0.0%		Definition of Vegetation Strata:		
	0		0.0%		Tree - Woody plants, excluding woody vines,		
50% of Total Cover: 5 20% of Total Cover: 2	 10 :	= To	otal Cove	<u>.</u>	approximately 20 ft (6 m) or more in height and 3 in.		
					(7.6 cm) or larger in diameter at breast height (DBH).		
Herb Stratum (Plot Size. 30)					Sapling - Woody plants, excluding woody vines.		
1. Lonicera japonica	10		18.2%	FACU	approximately 20 ft (6 m) or more in height and less		
2. Smilax glauca	10		18.2%	FAC	than 3 in. (7.6 cm) DBH.		
3. Rubus argutus	15		27.3%	FAC			
4. Gelsemium sempervirens	20		36.4%	FAC	Sapling/Shrub - Woody plants, excluding vines, less than 3 in DBH and greater than 3 28 ft (1m) tall		
5	0		0.0%				
6	0		0.0%		Shrub - Woody plants, excluding woody vines,		
7	0		0.0%		approximately 3 to 20 ft (1 to 6 m) in height.		
8	0		0.0%				
9	0		0.0%		Herb - All herbaceous (non-woody) plants, including		
0	0		0.0%		plants, except woody vines, less than approximately		
1.	0		0.0%		3 ft (1 m) in height.		
2.	0		0.0%				
50% of Total Cover: 27.5 20% of Total Cover: 11	55 :	= To	otal Cove		Woody vine - All woody vines, regardless of height.		
Woody Vine Stratum (Plot Size: 30)							
	15		100.0%	FAC			
	0		0.0%				
·	0		0.0%		Hudrophytic		
	0		0.0%				
•	0	\Box	0.0%	·	Vegetation		
50% of Total Cover: 7.5 20% of Total Cover: 3	15 ==	= To	otal Cove		Present? Yes $ullet$ No $igcup$		
omarke: (If observed list merobalagical adaptations below)							
emains. (It observed, list morphological adaptations below).							
Indicator suffix = National status or professional decision assigned because l	Regional status	not	defined by F	WS.			
S Army Corps of Engineers			-		Atlantic and Gulf Coastal Plain Region - Version 2.		
					5		

Profile Descr	iption: (De	scribe to	the depth	needed to document	the indic	ator or co	nfirm the a	absence of indicators.)			
Depth		Matrix										
(inches)	Color (moist)	_%	Color (moist)	_%		Loc ²	Texture	Remarks			
0-4	10YR	4/3	100					Silt Loam				
4-7	10YR	6/3	100					Silt Loam				
7-16	10YR	5/4	100					Silt Loam				
				· ·								
			- <u>-</u>	·								
				·								
¹ Type: C=Cond	centration. D	=Depletio	n. RM=Red	uced Matrix, CS=Covere	d or Coate	ed Sand Gra	ins ² Loca	tion: PL=Pore Lining. M	=Matrix			
Hydric Soil I	ndicators:							Indicators for Pro	blematic Hydric Soils ³ :			
Histosol (A	A1)			Polyvalue Bel	ow Surface	(S8) (LRR	S, T, U)	1 cm Muck (A9) (IRR O)			
Histic Epip	pedon (A2)			Thin Dark Sur	face (S9) ((LRR S, T, U	I)	\square 2 cm Muck (A1)	0) (LRR S)			
Black Hist	ic (A3)			Loamy Mucky	Mineral (F	1) (LRR O)		Reduced Vertic	(F18) (outside MLRA 150A,B)			
Hydrogen	Sulfide (A4)			Loamy Gleyed	l Matrix (F	2)		Piedmont Flood	lplain Soils (F19) (LRR P, S, T)			
Stratified	Layers (A5)			Depleted Mat	ix (F3)			Anomalous Brig	ht Loamy Soils (F20) (MLRA 153B)			
Organic B	odies (A6) (L	.RR P, T, I	J)	Redox Dark S	urface (F6))		Red Parent Mat	erial (TF2)			
5 cm Muc	ky Mineral (A	47) (LRR P	, T, U)	Depleted Dark	Surface (F7)		Very Shallow D	ark Surface (TF12)			
Muck Presence (A8) (LRR U)								$\Box \text{ Other (Explain in Remarks)}$				
1 cm Muc	k (A9) (LRR	P, T)		Marl (F10) (LF	RR U)							
Depleted	Below Dark S	Surface (A	11)	Depleted Och	ric (F11) (M	MLRA 151)						
Thick Darl	k Surface (A1	12)		Iron-Mangane	se Masses	(F12) (LRR	0, P, T)					
Coast Prai	irie Redox (A	16) (MLR/	A 150A)	Umbric Surfac	e (F13) (L	RR P, T, U)						
Sandy Mu	ck Mineral (S	51) (LRR C), S)	Delta Ochric (F17) (MLR	A 151)		³ Indicator	s of hydrophytic vegetation and			
Sandy Gle	eyed Matrix (S4)		Reduced Vert	c (F18) (N	ILRA 150A,	150B)	wetland hydrology must be present,				
Sandy Red	dox (S5)			Piedmont Floo	dplain Soi	ls (F19) (ML	RA 149A)	unless disturbed or problematic.				
	Vatrix (S6)			Anomalous Br	ight Loam	y Soils (F20)) (MLRA 149	9A, 153C, 153D)				
	ace (S7) (LRI	κ Ρ, 5 , Ι,	0)									
Restrictive La	ayer (if obs	erved):										
Туре:					_			Hudric Soil Procent? Vec No				
Depth (incl	hes):				_			Hyune Jon Fresent				
Remarks:												