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SENT VIA EMAIL

May 15, 2018

Mr. Taylor Gravois CSRS, Inc. 6767 Perkins Road, Suite 200 Baton Rouge, Louisiana 70808

RE: Wetland Delineation Report Beauregard Regional Airport Site Beauregard Parish, Louisiana

Dear Mr. Gravois:

Arabie Environmental Solutions, LLC is pleased to provide this electronic copy of the Wetland Delineation Report for the referenced property. A copy of this Delineation report can be submitted to the Corps of Engineers with a request for a preliminary wetland determination upon your review and approval.

If you have any questions or need a bound copy of the report, please do not hesitate to contact us. We appreciate the opportunity to provide this service for you.

Sincerely,

C. Blaine Johnson, P.E. Senior Engineer

Attachment

cc: Elliott Boudreaux, CSRS, Inc.

### WETLAND DELINEATION BEAUREGARD REGIONAL AIRPORT SITE BEAUREGARD PARISH, LOUISIANA

Prepared for:

CSRS, Inc. 6767 Perkins Road, Suite 200 Baton Rouge, Louisiana 70808

May 15, 2018

C. Blaine Johnson P.E. Senior Engineer

Cleveland R Hoffpauir

Environmental Scientist

Prepared by:

Arabie Environmental Solutions, LLC P.O. Box 928 Lake Charles, Louisiana 70602 (337) 436-3248

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### SUMMARY

A tract of land totaling approximately 521 acres located south of Highway 190, north of Graybow Road, and west of Old Airport Road in DeRidder, Beauregard Parish, Louisiana was evaluated for the presence of jurisdictional wetlands. The wetland delineation was performed in accordance with the procedures and methods as described in the U.S. Department of the Army Corps of Engineers (COE) 1987 Manual for Wetland Delineations and the Atlantic and Gulf Coastal Plain Regional Supplement 2010. Based on the Soil Survey of Beauregard Parish, soils present on the property consists of Beauregard silt loam, 1 to 3 percent slopes, Beauregard silt loam, 3 to 5 percent slopes, Blevins very fine sandy loam, 1 to 3 percent slopes, Caddo-Messer complex, 0 to 1 percent slopes, Guyton-Ouachita silt loams, frequently flooded, Malbis fine sandy loam, 1 to 3 percent slopes. The vast majority of the property consists of pine plantation in various stages of maturity. Brushy Branch is located near the western boundary of the property and a pond is located in the southwestern corner of the tract.

Based on the results of this delineation approximately 441.5 acres of non-wetlands and 79.5 acres of forested wetlands were identified on the tract. 71.9 acres of these wetlands consists of pine plantation, and 7.6 acres are bottomland hardwood forest. It should be noted that the mixed wetland/non-wetland areas encompass approximately 175 acres. Of these 175 acres, 68 acres are wetlands and 107 acres are non-wetland. Eight small 100% wetland areas were identified and total 11.5 acres. In addition to wetlands, portions of Brushy Branch and a 0.4-acre pond are located within the property boundaries. The pond and creek will likely be considered Section 404 non-wetland waters by the Corps of Engineers.

### **1.0 INTRODUCTION**

Arabie Environmental Solutions, LLC. (Arabie Environmental) was retained by CSRS, Inc. to conduct a wetland delineation of property located west of the Beauregard Regional Airport in DeRidder, Beauregard Parish, Louisiana. The tract is located in Sections 1, 2, 11, 12, and 14; Township 03 South, Range 10 West. The center of the property is located at Latitude 30° 49' 5.30" Longitude 93° 21' 19.68". The purpose of the delineation was to evaluate the tract for the potential presence of wetlands. A site location map is included as **Figure 1** and a site diagram is included as **Figure 2**. LIDAR imagery was also reviewed and is included as **Figure 3**. LIDAR is a remote sensing method that uses a near-infrared laser to map changes in elevation of the surface of the Earth.

Cleve Hoffpauir of Arabie Environmental performed the field evaluations. Mr. Hoffpauir has a Bachelors of Science Degree in Environmental Science and has experience in wetland ecosystem evaluation and wetland vegetation identification, in addition to specialized training in performing wetland delineations. Mr Hoffpauir has been performing wetland delineations for approximately ten years. Blaine Johnson managed the project. Mr. Johnson has over twenty-five years experience in environmental investigation and permitting, with over fifteen years experience in wetland permitting. Copies of the applicable Certificates of Training are included as **Attachment A**.

### 2.0 METHODOLOGY

The wetland delineation performed by Arabie Environmental was conducted in accordance with technical guidelines and methods for wetland delineations set forth by the U.S. Department of the Army Corps of Engineers (COE) in the 1987 Manual for Wetland Delineations and the Atlantic and Gulf Coastal Plains Regional Supplement 2010. These technical guidelines and methods utilize a multi-parameter approach to identify and delineate wetlands for the purposes of Section 404 of the Clean Water Act.

According to the COE 1987 Manual for Wetland Delineations, a site must have hydrophytic vegetation, hydric soils, and wetland hydrology in order for it to be classified as a wetland.

The following definitions are from the COE 1987 Manual for Wetland Determinations:

- **Hydrophytic vegetation** the sum total of macrophytic plant life growing in water or on a substrate that is at least periodically deficient in oxygen as a result of excessive water content. When hyrophytic vegetation comprises a community where indicators of hydric soils and wetland hydrology also occur, the area has wetland vegetation.
- Wetland soils a soil that is saturated, flooded, ponded long enough during the growing season to develop anaerobic conditions that favor the growth and regeneration of hydrophytic vegetation (US Department of Agriculture Soil Conservation Service 1985). Hydric soils that occur in areas having positive indicators of hydrophytic vegetation and wetland hydrology are wetland soils.
- **Wetland hydrology** the sum total of wetness characteristics in areas that are inundated or have saturated soils for sufficient duration to support hydrophytic vegetation.

Prior to the site visit, the Web Soil Survey prepared by the United States Department of Agriculture-Natural Resources Conservation Service (USDA-NRCS) was reviewed. The purpose of that review was to determine the soil types as mapped by USDA. As indicated by the Web Soil Survey, soils on the delineated site include seven soil types: Beauregard silt loam, 1 to 3 percent slopes (BdB), Beauregard silt loam, 3 to 5 percent slopes (BdC), Blevins very fine sandy loam, 1 to 3 percent slopes (BpB), Caddo-Messer complex, 0 to 1 percent slopes (CdA), Guyton-Ouachita silt loams, frequently flooded (GYA), Malbis fine sandy loam, 1 to 3 percent slopes (MbB), and Malbis fine sandy loam, 3 to 5 percent slopes (MbC). CdA and GYA soil types are listed as hydric Beauregard Parish. In addition to the soils map, an infrared aerial photograph from 2004 was also reviewed. The soils map and infrared photograph reviewed is included as **Attachment B**.

The delineation was begun by traversing the site and making a general evaluation of the topography and drainage features. After a general evaluation of the tract, four transects were traversed in the areas mapped CdA to determine the percentage of wetlands in these areas. These soils exhibited a "pimple mounded" topography with wetlands and non-wetlands so intermingled that they could not be mapped separately.

Transects 1, 2 and 3 were traversed in the central and southern portions of the property. This area exhibited a "pimple mounded" topography which is typical of this soil type. This area was determined to be 38% wetlands based on the results of these transects.

Transect 4 was traversed in the northern portion of the property. This area also exhibited a "pimple mounded" topography which is typical of this soil type. This area was determined to be 52% wetlands based on the results of this transect.

Along each transect, wetlands and non-wetlands were measured. The percentage of wetlands found within these "pimple mounded" areas was determined from the results. The Transect Data Form is included as **Attachment C**.

The remainder of the wetlands on the site are associated with creeks and drainage features. The majority of the northwestern portion of the property, adjacent to Brushy Branch consisted of high banks that are well drained. The southern area adjacent to Brushy Branch consist of floodplains and were determined to be wetlands. Several drainage swales are present on the tract. These drainage swales were determined to be 100% wetlands.

Sample points were selected at appropriate locations to properly characterize the soil, vegetation, and hydrology. Sixteen representative sample points were selected and detailed evaluations were conducted at these locations. The data collected at these sample points were recorded on Wetland Data Forms. The Wetland Data Forms are included as **Attachment D**.

### 3.0 SITE DESCRIPTION

The delineated tract is irregular in shape and encompasses approximately 521 acres. The property is located approximately 4 miles west of DeRidder, along and west of Old Airport Road. The vast majority of the tract consists of pine plantation in various stages of maturity with some areas recently clear cut. Brushy Branch is located near the western property boundary. Drainage swales associated with the nearby creeks are scattered throughout the property. The majority of the portions of the property mapped BdB, BdC, BpB, BpC, MbB, and MbC are moderately well drained, to well drained and did not demonstrate wetland characteristics. These areas generally sloped towards the creeks and/or drainage swales. The majority of the CdA soils on the site exhibit a "pimple mounded" topography with wetlands in the intermound areas and non-wetlands are so intermingled that they could not be mapped separately. Transects were traversed to estimate the percentage of wetlands in these areas mapped CdA. Eight small areas were determined

to contain 100% wetlands. These areas stay inundated and or saturated for long periods of time. A small pond is located on the tract and is shown on Figure 2.

Photographs of site features and data points were taken and are included as **Attachment E**.

### 4.0 FINDINGS

The tract of land was inspected with respect to the potential presence of wetlands. Sixteen sample points were selected to characterize both upland and wetland areas. At these sample points, the soils, hydrology and vegetation were characterized and the information recorded on Wetland Data Forms. The findings of the delineation are described in the following sections.

### 4.1 VEGETATION

The typical dominant plant species that were encountered at the site included the following:

### UPLAND

Rhus copallinium (Winged Sumac)

### FACULTATIVE UPLAND

Prunus serotine (Black Cherry) Plantago virginica (Pale Seed Plantain) Rubus trivialis (Southern Dew Berry) Callicarpa americana (American Beautyberry) Muhlenbergia capillaris (Gulf Coast Muhly) Vaccinium arboreum (Tree Sparkle Berry) Eupatorium capillifolium (Dogfennel) Schizachyrium scoparium (Little Bluestem)

### FACULTATIVE

Ilex vomitoria (Yaupon) Triadica sebifera (Chinese Tallow) Vitis rotundifolia (Muscadine) Pinus taeda (Loblolly Pine) Liquidambar styraciflua (Sweetgum) Smilax glauca (Cat Greenbrier) Morella cerifera (Wax Myrtle) Amplopsis arboreum (Peppervine) Rubus argutus (Saw tooth Blackberry) Pinus palustris (Longleaf Pine) Muhlenbergia capillaris (Hair Awn Muhly) Gelsemium sempervirens (Evening Trumpet Flower) Andropogon virginicus (Broomsedge) Toxicodendron radicans (Poison Ivy) Smilax rotundifolia (Greenbrier) Lygodium japonicum (Japanese Climbing Fern) Acer rubrum (Red Maple) Symplocos tinctoria (Sweetleaf) Ilex opaca (American Holly) Athyrium filix-femina (Ladyfern)

### FACULTATIVE WET

Pinus elliottii (Slash Pine) Juncus marginatus (Grassleaf Rush) Platanus occidentalis (American Sycamore) Cyperus acuminatus (Tapertip Flatsedge) Smilax laurifolia (Laurel Leaf Greenbier)

OBLIGATE WETLAND

*Hyptis alata* (Cluster Bush Mint) *Panicum hemitomon* (Maidencane)

### 4.2 SOILS

The review of the Soil Survey indicated that the delineated tract is located on nine soil types. Below is a description, from the Beauregard Parish Soil Survey prepared by the United States Department of Agriculture-Natural Resources Conservation Service (USDA-NRCS), of the soils present on the property.

- BdB soils are gently sloping and moderately well drained. They are on broad, slightly concave ridgetops. Areas are irregular in shape and range from 20 to 100 acres. Slopes range from 1 to 3 percent. This soil is not listed as hydric in Beauregard Parish.
- BdC soils are moderately sloping and moderately well drained. They are on slightly concave side slopes. Areas are long and narrow and range from 20 to 85 acres. Slopes are short and smooth and range from 3 to 5 percent. This soil is not listed as hydric in Beauregard Parish.
- BpB soils gently sloping and well drained. They are on convex ridgetops. Areas are irregular in shape and range from 20 to 300 acres. Slopes are generally long and smooth and range from 1 to 3 percent. A few small areas have mounded surfaces. This soil is not listed as hydric in Beauregard Parish.

- BpC soils are moderately sloping and well drained. They are on convex ridgetops and side slopes. Areas are irregular in shape and range from 20 to 300 acres. Slopes are generally long and smooth and range from 3 to 5 percent. This soil is not listed as hydric in Beauregard Parish.
- CdA soils are level to gently sloping and poorly drained to moderately well drained. The Caddo soil is on broad flats and the Messer soil is on small, convex mounds. The mounds are generally circular in shape and range from 30 to 150 feet across and from 1 to 6 feet in height. The mounds have been smoothed for cultivation in some areas. Areas are irregular in shape and range from 30 to 1,500 acres. Slopes are 0 to 1 percent. This soil is listed as hydric in Beauregard Parish.
- GYA soils are level to nearly level and are poorly drained and well drained. The Guyton soil is on low flats; the Ouachita soil is on low ridges. These soils are located in flood plains. Areas are elongated and can be up to several thousand acres. This soil is listed as hydric in Beauregard Parish.
- MbB soils are gently sloping and are moderately well drained. They are on broad convex ridgetops. Slopes generally are long and smooth and range from 1 to 3 percent. Areas are irregular in shape and range from 20 to 300 acres. This soil is not listed as hydric in Beauregard Parish.

### 4.3 HYDROLOGY

General observations and inspections of soil samples were performed to evaluate for wetland hydrology. Potential primary indicators include inundated areas, saturated soil in the upper 12 inches, free water in the soil, water marks, drainage patterns of wetlands, and sediment deposits. One primary indicator or two secondary indicators must be present for an area to have wetland hydrology. Sample plots 1, 5, 6, 13, 14 and 16 exhibited wetland hydrology indicators. In the remainder of the sample plots wetland hydrology indicators were absent.

### 5.0 CONCLUSIONS

A 521.4-acre tract located along Old Airport Road in DeRidder, Beauregard Parish, Louisiana was evaluated for the presence of jurisdictional wetlands. The wetland delineation was performed in accordance with the procedures and methods as described in the COE 1987 Manual for Wetland Delineations. Based on the results of this delineation, wetlands were identified on portions of the property.

A large portion of the tract, approximately 175 acres, contains CdA soil type. The majority of the CdA soils on the investigated property exhibits a "pimple mounded" topography with non-wetlands on the mound areas and wetland in the intermound areas. Four transects were traversed in these mounded areas. The results of these transects were used to determine the percentage of wetlands and non-wetlands in the areas observed to have similar characteristics (See Figure 2). Approximately 68 acres of wetlands are

located in the areas made up of CdA soil. Eight small areas, totaling 11.5 acres, were identified to contain 100% wetlands. The remainder of the tract appeared to be well drained and did not demonstrate characteristics typical of a wetland.

Based on the results of this delineation, approximately 79.5 acres of wooded wetlands were identified on the property. 71.9 acres of these wetlands are pine plantation, and 7.6 acres are bottomland hardwood forest. This resulted in approximately 441.5 acres of non-wetland acres, 334.6 acres which are not intermingled with wetlands. Approximately 408 linear feet of Brushy Branch and a 0.4 acre pond is located on the property. This pond and creek will likely be considered Section 404 non-wetland waters by the Corps of Engineers.

### FIGURE 1

Site Location Map



### FIGURE 2

Site Diagram



### FIGURE 3

LIDAR Imagery



### ATTACHMENT A

Certificates of Training

### Richard Chinn Environmental Training, Inc.

certifies that

# Cleve Hoffpauir

has successfully completed a

4 day 38 hour Army Corps of Engineers Wetland Delineation Training Program

issued Certificate No. 4666 and 3.8 CEUs on this first day of June, 2007, in Austin, Texas



Richard Chinn, PWS, CET,

Richard Chinn Environmental Training, Inc. 804 Cottage Hill Way, Brandon, FL 33511-8098 1.800.427.0307 • FAX: 1.888.457.6331 • info@richardchinn.com • http://www.richardchinn.com

This training has been based in part on the U.S. Army Corps of Engineers Wetlands Delineation Manual Technical Report Y-87-1 (1987 manual), as provided for in the training materials developed in conjunction with Section 307(e) of the Water Resources Development Act of 1990 for the Wetland Delineator Certification Program.



EWOLCOTTS INC. 1988 LITHO IN U.S.A.

# Certificate of Training Hydric Soil Updates

This certifies that

## **Cleveland Hoffpauir**

has participated in 2 hours of instruction.

Date: March 22, 2018



RALEIGH, NC 27603 1-877-479-2673

www.SwampSchool.org



Many +

SIGNATURE OF AUTHORIZATION

### ATTACHMENT B

Infrared and Soil Maps



### ATTACHMENT C

Transect Data

PROJECT/SITE:	Beauregard Airport Site	APPLICANT/OWNER:	CSRS, Inc.
TRANSECT ID #:	1	INVESTIGATOR(S):	C. Hoffpauir
LOCATION:	CdA soil type, traversing from easi	t to west.	

### **Counter Numbers:**

				Total Feet
0	to	16	wet	16
16	to	133	up	117
133	to	160	wet	27
160	to	216	up	56
216	to	258	wet	42
258	to	298	up	40
298	to	342	wet	44
342	to	460	up	118
460	to	510	wet	50
510	to	568	up	58
568	to	610	wet	42
610	to	634	up	24
634	to	643	wet	9
643	to	722	up	79
722	to	754	wet	32
754	to	789	up	35
789	to	800	wet	11
800	to	831	up	31
831	to	854	wet	23
854	to	885	up	31
885	to	951	wet	66
951	to	1002	up	51
1002	to	1049	wet	47
1049	to	1067	up	18
1067	to	1082	wet	15
1082	to	1124	up	42
1124	to	1167	wet	43
1167	to	1201	up	34
1201	to	1223	wet	22
1223	to	1278	up	55
1278	to	1320	wet	42
1320	to	1343	up	23

Total Upland Linear Feet	812
Total Wetland Linear Feet	531
% UPLAND	60%
% WETLAND	40%

Total:

1343

PROJECT/SITE:	Beauregard Airport Site	APPLICANT/OWNER:	CSRS, Inc.
TRANSECT ID #:	2	INVESTIGATOR(S):	C. Hoffpauir
LOCATION:	CdA soil type, traversing south to	north.	

### **Counter Numbers:**

				Total Feet
0	to	21	wet	21
21	to	61	up	40
61	to	85	wet	24
85	to	149	up	64
149	to	220	wet	71
220	to	364	up	144
364	to	398	wet	34
398	to	445	up	47
445	to	474	wet	29
474	to	502	up	28
502	to	520	wet	18
520	to	579	up	59
579	to	606	wet	27
606	to	704	up	98
704	to	742	wet	38
742	to	817	up	75
817	to	844	wet	27
844	to	882	up	38
882	to	896	wet	14
896	to	1019	up	123
1019	to	1047	wet	28
1047	to	1063	up	16
1063	to	1074	wet	11
1074	to	1092	up	18
1092	to	1118	wet	26
1118	to	1155	up	37
1155	to	1180	wet	25
1180	to	1242	up	62
1242	to	1285	wet	43

849
436
66%
34%

Total:

1285

PROJECT/SITE:	Beauregard Airport Site	APPLICANT/OWNER:	SJB Group LLC
TRANSECT ID #:	3	INVESTIGATOR(S):	C. Hoffpauir
LOCATION:	CdA soils, traversing from souther	ast to northwest.	

**Total Upland Linear Feet** 

**Total Wetland Linear Feet** 

% UPLAND

% WETLAND

939

630

60%

40%

### **Counter Numbers:**

				Total Feet
0	to	62	wet	62
62	to	89	up	27
89	to	120	wet	31
120	to	172	up	52
172	to	258	wet	86
258	to	303	up	45
303	to	371	wet	68
371	to	441	up	70
441	to	457	wet	16
457	to	510	up	53
510	to	529	wet	19
529	to	605	up	76
605	to	634	wet	29
634	to	719	up	85
719	to	736	wet	17
736	to	757	up	21
757	to	773	wet	16
773	to	857	up	84
857	to	889	wet	32
889	to	987	up	98
987	to	1001	wet	14
1001	to	1099	up	98
1099	to	1113	wet	14
1113	to	1152	up	39
1152	to	1173	wet	21
1173	to	1274	up	101
1274	to	1354	wet	80
1354	to	1413	up	59
1413	to	1428	wet	15
1428	to	1459	up	31
1459	to	1569	wet	110

Total:

1569

PROJECT/SITE:	Beauregard Airport Site	APPLICANT/OWNER:	CSRS, Inc.	
TRANSECT ID #:	4	INVESTIGATOR(S):	C. Hoffpauir	
LOCATION:	CdA soils, traversing northwest to	o southeast		
Counter Numbers:				

				Total Feet		
0	to	0	wet	0	Total Upland Linear Feet	61
0	to	6	up	6		
6	to	15	wet	9	Total Wetland Linear Feet	65
15	to	18	up	3		
18	to	20	wet	2		
20	to	31	up	11	% UPLAND	48%
31	to	42	wet	11		
42	to	83	up	41		
83	to	126	wet	43	% WETLAND	52%
126	to	455	up	329		
	-		_			

Total:

126

Area not used in percent calculations.

### ATTACHMENT D

Wetland Data Forms

### WETLAND DETERMINATION DATA FORM – Atlantic and Gulf Coastal Plain Region

Project/Site: Beauregard Airport Site	City/County: DeRidder/Beauregard Sampling Date: 5/2/18
Applicant/Owner: CSRS, Inc.	State: LA Sampling Point: 1-A
Investigator(s): C. Hoffpauir	Section, Township, Range: S11 T3S R10W
Landform (hillslope, terrace, etc.): Flat/Intermound Subregion (LRR or MLRA): LRR-T Lat: 3408 Soil Map Unit Name: Caddo-Messer complex (CdA)	Local relief (concave, convex, none): None Slope (%): 0 8816.80 Long: 465971.74 Datum: UTM NAD 83 NWI classification: None
Are climatic / hydrologic conditions on the site typical for this time of	year? Yes <u>A</u> No (If no, explain in Remarks.)
Are Vegetation No , Soil No , or Hydrology NO significant	tly disturbed? Are "Normal Circumstances" present? Yes X No
Are Vegetation NO_, Soil NO_, or Hydrology NO_ naturally p	problematic? (If needed, explain any answers in Remarks.)
SUMMARY OF FINDINGS – Attach site map showin	ng sampling point locations, transects, important features, etc.
Hydrophytic Vegetation Present?     Yes     X     No       Hydric Soil Present?     Yes     X     No       Wetland Hydrology Present?     Yes     X     No       Remarks:     Diagonal     Diagonal     Diagonal	─ Is the Sampled Area ─ within a Wetland? Yes X No
Pine Forest	
HYDROLOGY	
Primary Indicators (minimum of one is required; check all that apply         Surface Water (A1)       Aquatic Fauna (E         High Water Table (A2)       Marl Deposits (B         Saturation (A3)       Hydrogen Sulfide         Vater Marks (B1)       Oxidized Rhizosp         Sediment Deposits (B2)       Presence of Red         Algal Mat or Crust (B4)       Thin Muck Surface         Iron Deposits (B5)       Other (Explain in         Inundation Visible on Aerial Imagery (B7)       Water-Stained Leaves (B9)	y)       Surface Soil Cracks (B6)         B13)       Sparsely Vegetated Concave Surface (B8)         b15) (LRR U)       Drainage Patterns (B10)         e Odor (C1)       Moss Trim Lines (B16)         pheres along Living Roots (C3)       Dry-Season Water Table (C2)         duced Iron (C4)       Crayfish Burrows (C8)         uction in Tilled Soils (C6)       Saturation Visible on Aerial Imagery (C9)         ce (C7)       Geomorphic Position (D2)         n Remarks)       Shallow Aquitard (D3)         f AC-Neutral Test (D5)       Sphagnum moss (D8) (LRR T, U)
Field Observations:         Surface Water Present?       Yes No X Depth (inche Water Table Present?       Yes No X Depth (inche Saturation Present?       Yes X No Depth (inche (includes capillary fringe)         Description Present?       Yes X No Depth (inche (includes capillary fringe)	es): es): es): es): Wetland Hydrology Present? Yes _X No
Describe Recorded Data (Stream gauge, monitoring weil, aenai pric	
Remarks:	

### VEGETATION (Four Strata) – Use scientific names of plants.

00		Absolute	Dominant	Indicator	Dominance Test worksheet		
Tree Stratum (Plot size: 30	)	<u>% Cover</u>	Species?	Status	Number of Dominant Species	7	
1. Liquidember eturopiflue		10			That Are OBL, FACW, or FAC	/	(A)
		10	NO	FAC	Total Number of Dominant	_	
3					Species Across All Strata:	7	(B)
4					Percent of Dominant Species		
5					That Are OBL, FACW, or FAC	; 100	(A/B)
6					Provalence Index workshee	+-	
7					Total % Cover of	Multiply by:	
8						<u></u>	-
		60	= Total Cov	er		x 2 =	_
	50% of total cover: 30	20% of	total cover:	12		x 2 =	-
Sapling/Shrub Stratum (Plot siz	.e: <u>30</u> )					x 3 =	-
1. Liquidambar styraciflua		10	YES	FAC		x 4 =	-
2. Symplocos tinctoria		5	YES	FAC		x 5 =	— (D)
3. Morella cerifera		5	YES	FAC	Column Totals:	(A)	(B)
4					Prevalence Index = B/A	x =	
5					Hydrophytic Vegetation Indi	icators:	
6					1 - Rapid Test for Hydron	hytic Vegetation	
7					$\square$ 2 - Dominance Test is $>5$	0%	
8.					$\boxed{2}$ 2 - Dominance rest is >0	3 0 <sup>1</sup>	
		20	= Total Cov	er		Vogotation <sup>1</sup> (Eval	uin)
	50% of total cover: 10	20% of	total cover:	4			ui i <i>)</i>
Herb Stratum (Plot size: <sup>30</sup>	)				<sup>1</sup> Indiactors of hydric coil and y	uctional budrology	munt
1 Panicum hemitomon	/	50	YES	OBL	be present. unless disturbed of	or problematic.	must
2 Ampelopsis arboreum		20	YES	FAC	Definitions of Four Vegetati	on Strata	
3 Rhynchospora gracilenta		10	NO	OBL	Deminions of Four Vegetati	on onata.	
A Xvris caroliniana		5	NO	OBL	Tree – Woody plants, excludin	ng vines, 3 in. (7.6	cm) or
<ul> <li>Sisvrinchium atlanticum</li> </ul>		2	NO	FACW	height.	gni (DBH), regard	less of
c Hypericum hypericoides		2	NO	FAC			
8: <u></u>					than 3 in DBH and greater the	ts, excluding vines	s, less
7					and to m. DBH and greater and		
8					Herb – All herbaceous (non-w	voody) plants, rega	ardless
9					or size, and woody plants less	, than 3.26 it tail.	
10					Woody vine - All woody vine	s greater than 3.28	3 ft in
11					height.		
12							
		89	= Total Cov	er			
	50% of total cover: 44.5	20% of	total cover:	17.8			
Woody Vine Stratum (Plot size:	30 )						
1. Ampelopsis arboreum		5	YES	FAC			
2							
3							
4							
5					Hydrophytic		
		5	= Total Cov	er	Vegetation		
	50% of total cover: 2.5	20% of	total cover:	1	Present? Yes <u>*</u>	No	
Remarks: (If observed, list more	phological adaptations belo	w).			I		
		,					

Profile Desc	ription: (Describe	to the dep	th needed to docun	nent the	indicator	or confirm	the absence	of indicate	ors.)	
Depth	Matrix		Redox	x Feature	S1	. 2	_			
(inches)	Color (moist)	<u>%</u>	Color (moist)		Type'			Caturata	Remarks	
0-0	10 YR 5/1	95	51R 4/6	5	<u> </u>	M, PL	Sill Loam Saturated		u	
6-16	10 YR 5/2	95	5YR 4/6	5	С	M, PL	Silt Loam	Saturate	d	
		·			. <u> </u>					
					·					
		·								
1 <del></del>							21			
Type: C=Co	ncentration, D=Dep	able to all	Reduced Matrix, MS	s=Masked	d Sand Gr	ains.	Location:	PL=Pore L	ining, M=Matr	IX. Soils <sup>3</sup>
				low Surfa	eu.)	DDCTU				50113 .
	(AT) bipedon (A2)		Thin Dark Su	rface (S9	) (I RR S	T. U)	$\int \frac{1}{2} \operatorname{cm} N$	/luck (A9) (I		
Black His	stic (A3)			/ Mineral	(F1) (LRF	R O)		ed Vertic (F	(18) (outside	MLRA 150A.B)
Hydroge	n Sulfide (A4)		Loamy Gleye	d Matrix	(F2)	- /	D Piedm	ont Floodpl	ain Soils (F19)	) (LRR P, S, T)
Stratified	Layers (A5)		Depleted Mat	rix (F3)			Anoma	alous Bright	Loamy Soils	(F20)
Organic	Bodies (A6) (LRR P	, T, U)	Redox Dark S	Surface (F	=6)			RA 153B)		
5 cm Mu	cky Mineral (A7) (LF	RR P, T, U)	Depleted Dar	k Surface	e (F7)			arent Mater	ial (TF2)	
Muck Pre	esence (A8) (LRR U	)		ssions (F	8)			Shallow Darl	k Surface (TF	12)
	CK (A9) <b>(LRR P, I)</b> Below Dark Surfac	o (A11)		<b>KK U)</b> pric (E11)		51)		(Explain in I	Remarks)	
	rk Surface (A12)	0 (/(11)	Iron-Mangane	ese Mass	es (F12) (	LRR O. P.	T) <sup>3</sup> India	ators of hvo	drophytic veae	tation and
Coast Pr	airie Redox (A16) (N	/LRA 150	A) Umbric Surfa	ce (F13)	(LRR P, 1	, U)	wet	land hydrol	ogy must be p	present,
🔲 Sandy M	lucky Mineral (S1) (I	_RR O, S)	Delta Ochric	(F17) <b>(M</b>	RA 151)		unle	ess disturbe	ed or problema	atic.
Sandy G	leyed Matrix (S4)		Reduced Ver	tic (F18)	(MLRA 15	60A, 150B)				
Sandy R	edox (S5)		Piedmont Flo	odplain S	oils (F19)	(MLRA 14	9A)			
	Matrix (S6)		Anomalous B	right Loa	my Soils (	F20) <b>(MLR</b>	A 149A, 153C	, 153D)		
Dark Sur	face (S7) (LRR P, S	5, I, U)								
Type:										
Depth (inc	ches):						Hydric Soil	Present?	Yes X	No
Remarks:	,									

### WETLAND DETERMINATION DATA FORM – Atlantic and Gulf Coastal Plain Region

Project/Site: Beauregard Airport Site	_ City/County: DeRidder/Beauregard Sampling Date: 5/2/18						
Applicant/Owner: CSRS, Inc.	State: LA Sampling Point: 2-A						
Investigator(s); C. Hoffpauir	Section Townshin Range: S11 T3S R10W						
Landform (billslope terrace etc.). Mound/Ridge	Local relief (concave, convex, none): Convex Slope (%): 1-3						
Subrasian (LDD or MLDA), LRR-T	2036.48 Loos: 46611.49 Dotum: UTM NAD 83						
Caldo-Messer complex (CdA)	Long: Datum Datum.						
Soil Map Unit Name: <u>Solution incoder complete (complete</u> )	NVVI classification:						
Are climatic / hydrologic conditions on the site typical for this time or y	year? Yes <u>^</u> No (If no, explain in Remarks.)						
Are Vegetation <u>INU</u> , Soil <u>INU</u> , or Hydrology <u>INU</u> significant	ly disturbed? Are "Normal Circumstances" present? Yes <u>^</u> No						
Are Vegetation <u>NO</u> , Soil <u>NO</u> , or Hydrology <u>NO</u> naturally p	problematic? (If needed, explain any answers in Remarks.)						
SUMMARY OF FINDINGS – Attach site map showin	ig sampling point locations, transects, important features, etc.						
Hydrophytic Vegetation Present? Yes X No	Is the Sampled Area						
Wetland Hydrology Present? Yes No X	within a Wetland? Yes No A						
Remarks:	-						
Pine Forest							
HYDROLOGY							
Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)						
Primary Indicators (minimum of one is required; check all that apply	/) Surface Soil Cracks (B6)						
Surface Water (A1)	313) Sparsely Vegetated Concave Surface (B8)						
High Water Table (A2)	15) <b>(LRR U)</b> Drainage Patterns (B10)						
Saturation (A3)	e Odor (C1) Moss Trim Lines (B16)						
Water Marks (B1)	heres along Living Roots (C3)						
Sediment Deposits (B2)	uced Iron (C4)						
Drift Deposits (B3)	uction in Tilled Soils (C6)						
Algal Mat or Crust (B4)	ce (C7)						
Iron Deposits (B5)	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 No X Depth (inche	s):						
Water Table Present? Yes No X Depth (inche	s):						
Saturation Present? Yes No X Depth (inche	es): Wetland Hydrology Present? Yes No x						
Describe Recorded Data (stream gauge, monitoring well, aerial pho	otos, previous inspections), if available:						
Remarks:							

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

	Absolute	Dominant	Indicator	Dominance Test worksheet
Tree Stratum (Plot size: <u>30</u> )	% Cover	Species?	Status	Number of Dominant Species
1. Pinus palustris	50	YES	FAC	That Are OBL, FACW, or FAC: <sup>5</sup> (A)
2.				
3				Total Number of Dominant Species Across All Strata: 5 (B)
4	·			
5	·			Percent of Dominant Species
	·			That Are OBL, FACW, or FAC: (A/B)
0	·			Prevalence Index worksheet:
/	- <u> </u>			Total % Cover of: Multiply by:
8				OBL species x 1 =
	50	= Total Cov	rer	
50% of total cover: 25	20% of	total cover	10	
Sapling/Shrub Stratum (Plot size: <u>30</u> )				
1. Liquidambar styraciflua	60	YES	FAC	FACU species         x 4 =           UDL species         x 5
2. Triadica sebifera	10	NO	FAC	UPL species x 5 =
3. Pinus palustris	5	NO	FAC	Column Totals: (A) (B)
4. Callicarpa americana	2	NO	FACU	Prevalence Index - B/A -
5. Symplocos tinctoria	2	NO	FAC	
6 Sassafras albidum	2	NO	FACU	Hydrophytic vegetation indicators:
<ul> <li>Morella cerifera</li> </ul>	2	NO	FAC	1 - Rapid Test for Hydrophytic Vegetation
Ouercus nigra	2	NO	FAC	$\square$ 2 - Dominance Test is >50%
8. deblodo higid	85			✓   3 - Prevalence Index is ≤3.0 <sup>1</sup>
40.5	00	= Total Cov	ver	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
50% of total cover: $\frac{42.5}{2}$	20% of	total cover		
Herb Stratum (Plot size: 30 )				<sup>1</sup> Indicators of hydric soil and wetland hydrology must
1. Andropogon virginicus	20	YES	FAC	be present, unless disturbed or problematic.
2. Triadica sebifera	10	NO	FAC	Definitions of Four Vegetation Strata:
3. Smilax glauca	10	NO	FAC	<b>Tree</b> Weedy plants, evoluting vince, 2 in (7.6 cm) or
4. Smilax rotundifolia	10	NO	FAC	more in diameter at breast height (DBH), regardless of
5. Juncus marginatus	5	NO	FACW	height.
6. Muhlenbergia capillaris	5	NO	FACU	Sapling/Shrub Woody plants, avaluding vines, loss
7 Eupatorium rotundifolium	2	NO	FAC	than 3 in. DBH and greater than 3.28 ft (1 m) tall.
8 Rubus argutus	2	NO	FAC	
0	·			Herb – All herbaceous (non-woody) plants, regardless
9	·			or size, and woody plants less than 5.20 it tail.
10	·			Woody vine - All woody vines greater than 3.28 ft in
11	·			height.
12				
	64	= Total Cov	rer	
50% of total cover: <u>32</u>	20% of	total cover	12.8	
Woody Vine Stratum (Plot size: 30 )				
1. Smilax rotundifolia	10	YES	FAC	
2. Smilax glauca	10	YES	FAC	
3				
4.				
5				the bound of a
···	20	- Total Cov		Hydropnytic Vegetation
50% of total cover: 10			. 5	Present? Yes X No
	20% 01			
Remarks: (If observed, list morphological adaptations belo	ow).			

Profile Desc	ription: (Describe	to the dep	th needed to docur	nent the i	indicator	or confirm	the absence	of indicate	ors.)	
Depth	Matrix		Redo	x Feature	s	0				
(inches)	Color (moist)		Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture		Remarks	
0-6	10 YR 3/2	100					Silt Loam			
6-16	10 YR 6/4	98	10YR 5/6	2	С	Μ	Silt Loam			
			-		·					
					·		<u> </u>			
1					·					
Type: C=Co	oncentration, D=Dep	letion, RM	Reduced Matrix, MS	S=Masked	d Sand Gr	ains.	<sup>2</sup> Location:	PL=Pore L	ining, M=Ma	trix.
Hyaric Soli I	ndicators: (Applic	able to all	LRRS, unless other	wise not	ea.)					: 50IIS :
	(A1) Vinadan (A2)		Thin Dark Su	urface (So	ICE (58) (L ) /I PP S	.RR 5, 1, U T II)	$\frac{1}{12}$ $\frac{1}{2}$ $1$	luck (A9) <b>(I</b> luck (A10)		
Black His	stic (A3)			v Mineral	(ERK 3,	1, 0) ? (0)		ed Vertic (F	(LKK S) (Outside	MI RA 150A B)
	n Sulfide (A4)		Loamy Gleve	d Matrix (	(F2)	,		ont Floodpl	ain Soils (F19	9) (LRR P, S, T)
Stratified	Layers (A5)		Depleted Ma	trix (F3)	<b>`</b> ,		🔲 Anoma	Ilous Bright	Loamy Soils	s (F20)
Organic	Bodies (A6) (LRR P	, T, U)	Redox Dark	Surface (F	-6)			RA 153B)		
5 cm Mu	cky Mineral (A7) <b>(Ll</b>	RR P, T, U)	Depleted Dar	rk Surface	e (F7)			arent Mater	ial (TF2)	
Muck Pre	esence (A8) (LRR L	J)	Redox Depre	essions (F	8)		U Very S	hallow Dar	k Surface (TF	-12)
	ck (A9) <b>(LRR P, T)</b>	a (A11)	Marl (F10) (L	.RR U)		E4)	U Other (	Explain in	Remarks)	
	rk Surface (A12)	e (ATT)			(IVILKA 1		T) <sup>3</sup> Indic	ators of hy	dronhytic yea	netation and
Coast Pr	airie Redox (A12)	MLRA 150	A) Umbric Surfa	ce (F13)	(LRR P. T	.U)	wet	and hvdrol	oav must be	present.
Sandy M	lucky Mineral (S1) (	LRR O, S)	Delta Ochric	(F17) <b>(ML</b>	_RA 151)	, -,	unle	ess disturbe	ed or problem	natic.
Sandy G	leyed Matrix (S4)		Reduced Ver	tic (F18)	(MLRA 15	60A, 150B)				
Sandy R	edox (S5)		Piedmont Flo	odplain S	Soils (F19)	(MLRA 14	9A)			
Stripped	Matrix (S6)		Anomalous E	Bright Loa	my Soils (	F20) <b>(MLR</b>	A 149A, 153C,	, 153D)		
Dark Sur	face (S7) (LRR P, S	5, T, U)								
Type	ayer (il observed)	•								
Depth (inc	thes):						Hydric Soil	Procont?	Vos	No X
Pemarke:							Tiyune Son	r resent :	163	
Remarks.										

### WETLAND DETERMINATION DATA FORM – Atlantic and Gulf Coastal Plain Region

Project/Site: Beauregard A	C	<sub>City/County:</sub> De	Ridder/Bea	auregard	Sampling Date:	5/2/18			
Applicant/Owner: CSRS, Ir		State: LA Sampling Point: 3-A				3-A			
Investigator(s): C. Hoffpauin	r		S	Section Township Range: S12 T3S R10W					
Landform (hillslope, terrace, e	etc.): Moun	d/Ridge		ocal relief (conc	ave. convex. i	none): Convex	Slor	<sub>be (%):</sub> 1-3	
Subregion (LRP or MLPA): L	Lat: 340925	5.15	Long: 4	66340.13	0.0p	UTM NAD 83			
Soil Man Linit Name. Caddo	-Messer c	omplex (Cd/	Lat A)		Long	NIW/L classific	ation: None		
Are climatic / hydrologic condi	itions on the	cito tunical fe	yr this time of you	r2 Voc X	No (		omarke )		
Are Verentetion NO Seil N				listurbed	NU (	Circumotonoco" r	ernarks.)	No	
Are Vegetation <u>NO</u>	<u>, or n</u>	No	significantly d		Are Normai		resent? res <u>.x</u>	NO	
Are Vegetation 100, Soil 1	<u>,</u> or H	ydrology 100	naturally prob	plematic?	(If needed, e	xplain any answe	rs in Remarks.)		
SUMMARY OF FINDIN	GS – Att	ach site m	ap showing	sampling po	oint locatio	ns, transects	, important fe	eatures, etc.	
Hydrophytic Vegetation Pres	sent?	<sub>Yes</sub> X	No	la tha Car					
Hydric Soil Present?		Yes	No X	is the Sar	Notland2	Vos	No X		
Wetland Hydrology Present?	?	Yes	No X	within a v	vetianu:	165		-	
Remarks:									
Pine Forest									
	tors:					Secondary Indica	tors (minimum of	two required)	
Primary Indicators (minimum	n of one is r	auirad: chacl	call that apply)				Cracks (B6)	two required)	
Surface Water (A1)			uatic Fauna (B13)	)		Sparsely Ver	retated Concave	Surface (B8)	
High Water Table (A2)			rl Deposits (B15)	(5) (LRR U)					
Saturation (A3)		🔲 нус	drogen Sulfide Oc	dor (C1)		Moss Trim Li	nes (B16)		
Water Marks (B1)		Oxi	dized Rhizospher	wheres along Living Roots (C3) Dry-Season Water Table (C2)					
Sediment Deposits (B2)	1	Pre	sence of Reduce	d Iron (C4)		Crayfish Buri	ows (C8)		
Drift Deposits (B3)			cent Iron Reduction	uction in Tilled Soils (C6) Saturation Visible on Aerial Imagery (C					
Algal Mat or Crust (B4)		📙 Thi	n Muck Surface (	ce (C7)					
Iron Deposits (B5)		L Oth	er (Explain in Re	Remarks) Shallow Aquitard (D3)					
Inundation Visible on A	erial Imager	y (B7)		FAC-Neutral Test (D5)					
Water-Stained Leaves (	B9)			Sphagnum moss (D8) (LRR T, U)					
Field Observations:	N/s s	м. Х	Death (askes)						
Surface Water Present?	Yes	NO <u>//</u>	Deptn (inches):						
Seturation Present?	Yes	No <u>X</u>	Depth (inches):		Wotland H		+2 Voc	No X	
(includes capillary fringe)	165		Deptil (ilicites).	<u></u>	Wetlanu n	yulology Flesen		NO	
Describe Recorded Data (st	ream gauge	, monitoring v	vell, aerial photos	s, previous inspe	ctions), if avai	lable:			
Remarks:									

### VEGETATION (Four Strata) – Use scientific names of plants.

, , , , , , , , , , , , , , , , , , ,	Absoluto	Dominant	Indicator	Dominance Test worksheet:
Tree Stratum (Plot size: <sup>30</sup> )	% Cover	Species?	Status	Number of Deminant Species
1. Pinus palustris	50	YES	FAC	That Are OBL, FACW, or FAC: 4 (A)
<ul> <li>Liquidambar styraciflua</li> </ul>	5	NO	FAC	
2 Triadica sebifera	5	NO	FAC	Total Number of Dominant
3	·			Species Across All Strata: (B)
4	·			Percent of Dominant Species
5	·			That Are OBL, FACW, or FAC: <u>80</u> (A/B)
6	·			Prevalence Index worksheet
7				Total % Cover of: Multiply by:
8				
	60	= Total Cov	er	
50% of total cover: <u>30</u>	20% of	f total cover:	12	FACW species x 2 =
Sapling/Shrub Stratum (Plot size: 30 )				FAC species x 3 =
1. Liquidambar styraciflua	40	YES	FAC	FACU species x 4 =
2 Triadica sebifera	10	NO	FAC	UPL species x 5 =
2 Sassafras albidum	10	NO	FACU	Column Totals: (A) (B)
Callicarpa americana	5	NO	FACU	
- Phus conallinum	5			Prevalence Index = B/A =
	5			Hydrophytic Vegetation Indicators:
6. Ilex vomitoria	5	NO	FAC	1 - Rapid Test for Hydrophytic Vegetation
7				2 - Dominance Test is >50%
8				3 - Prevalence Index is ≤3.0 <sup>1</sup>
	75	= Total Cov	er	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
50% of total cover: 37.5	20% of	f total cover:	15	
Herb Stratum (Plot size: <sup>30</sup> )				<sup>1</sup> Indianters of hydric coll and watland hydrology must
1 Schizachyrium scoparium	30	YES	FACU	be present, unless disturbed or problematic.
2 Rubus argutus	10	NO	FAC	Definitions of Four Vegetation Strata:
2. Callicarpa americana	5	NO	FACU	Demittoris of Four Vegetation Strata.
Helianthus angustifolius	2		FACW	Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or
4. Trenantinus angustionus	2			more in diameter at breast height (DBH), regardless of
5. Toxicodendron radicans	2			neight.
6. Eupatorium rotundifolium	2	NO	FAC	Sapling/Shrub – Woody plants, excluding vines, less
7. Gelsemium sempervirens	2	NO	FAC	than 3 in. DBH and greater than 3.28 ft (1 m) tall.
8	·			Herb – All herbaceous (non-woody) plants, regardless
9				of size, and woody plants less than 3.28 ft tall.
10.				Weedy vine All weedy vince greater than 2.20 ft in
11.				height.
12				
·	53	- Total Cov	or	
50% of total acuary 26.5	200/ 24	f total cover	10.6	
$\frac{30}{30}$ or total cover. $\frac{-30}{30}$	20 % 01			
<u>woody vine Stratum</u> (Plot size:)	F	VEC	EAC	
	5			
	5	YES	FAC	
3	·			
4				
5				Hydrophytic
	10	= Total Cov	er	Vegetation
50% of total cover: <sup>5</sup>	20% of	f total cover:	2	Present? Yes <u>×</u> No
Remarks: (If observed list morphological adaptations belo				l
nomano. In observou, not morphological adaptations beit				
#### SOIL

Profile Desc	ription: (Describe	to the dep	th needed to docun	nent the i	ndicator	or confirm	the absence of it	ndicators.)	
Depth	Matrix		Redo	x Feature	s				
(inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks	
0-6	10 YR 5/3	95	5YR 4/6	5	С	M, PL	Silt Loam		
6-16	10 YR 6/4	98	5YR 4/6	2	С	Μ	Silt Loam		
						·			
		·		·		·			
		·		·			<u> </u>		
				·					
<sup>1</sup> Type: C=Co	oncentration, D=Dep	letion, RM	=Reduced Matrix, MS	S=Masked	Sand Gr	ains.	<sup>2</sup> Location: PL=	Pore Lining, M=Ma	trix.
Hydric Soil I	ndicators: (Applic	able to all	LRRs, unless other	wise not	ed.)		Indicators for	Problematic Hydric	c Solls":
	(A1)		Polyvalue Be	low Surfa	ce (S8) <b>(L</b>	.RR S, T, U		(A9) <b>(LRR O)</b>	
Black His	stic (A3)			Mineral	) (LKK 3, (F1) <b>(I R</b> F	1, U) 2 O)		(A10) <b>(LKK 5)</b> /ertic (F18) <b>(outside</b>	MI RA 150A B)
	n Sulfide (A4)			d Matrix (	(F2)	(0)		Floodplain Soils (F1	9) (LRR P. S. T)
Stratified	Layers (A5)		Depleted Mat	trix (F3)	/			s Bright Loamy Soils	s (F20)
Organic	Bodies (A6) (LRR P	, T, U)	Redox Dark	Surface (F	-6)		(MLRA 1	53B)	
5 cm Mu	cky Mineral (A7) (LF	RR P, T, U	) 🔲 Depleted Dar	k Surface	e (F7)		Red Paren	t Material (TF2)	
Muck Pre	esence (A8) (LRR U	)	Redox Depre	ssions (F	8)		Very Shallo	ow Dark Surface (TF	-12)
1 cm Mu	ck (A9) <b>(LRR P, T)</b> I Polow Dork Surfoo	o (A11)	Marl (F10) (L	RRU)		<b>5</b> 4)	U Other (Exp	lain in Remarks)	
	ark Surface (A12)	e (ATT)		ese Mass	(INILKA I es (F12) (		T) <sup>3</sup> Indicator	s of hydrophytic yea	etation and
Coast Pr	airie Redox (A16) (N	/LRA 150	A) Umbric Surfa	ce (F13) (	(LRR P, T	.U)	wetland	l hydrology must be	present,
Sandy M	lucky Mineral (S1) (L	.RR O, S)	Delta Ochric	(F17) <b>(ML</b>	RA 151)		unless o	disturbed or problem	hatic.
Sandy G	leyed Matrix (S4)		Reduced Ver	tic (F18) (	MLRA 15	60A, 150B)			
Sandy R	edox (S5)		Piedmont Flo	odplain S	oils (F19)	(MLRA 14	9A)		
Stripped	Matrix (S6)	<b>. .</b>	Anomalous B	right Loai	my Soils (	F20) <b>(MLR</b>	A 149A, 153C, 153	3D)	
Restrictive L	ayer (if observed):	, 1, 0)							
Туре:									
Depth (inc	ches):						Hydric Soil Pres	sent? Yes	X
Remarks:									

Project/Site: Beauregard A	irport Site			City/County:	DeRidder/Be	eauregard	Sampling Date:	5/2/18
Applicant/Owner: CSRS, Ir	State: LA Sampling Point: 4-A				4-A			
Investigator(s): C. Hoffpauin	Section, Township, Range: S11 T3S R10W							
Landform (hillslope, terrace, e	etc.): Moun	d/Ridge		Local relief (c	oncave, convex	none): Convex	Slor	<sub>e (%):</sub> 1-3
Subregion (I RR or MI RA): L	.RR-T		Lat: 34094	159.58		465888.81	0.0p	tum. UTM NAD 83
Soil Man Linit Name. Caddo	-Messer c	omplex (Cd	Lat A)		Long	NW/L classific	Da	
Are climatic / hydrologic condi	itions on the	sito typical f	or this time of ve	ar2 Vac X	No		Comarka )	
Are Verentetion NO Seil N				disturbed	NU			No
Are Vegetation <u>NO</u>	<u>, or n</u>	No	significantiy		Are Norma	a Circumstances p	bresent? Yes <u>x</u>	NO
Are vegetation <u>110</u> , Soll <u>1</u>	•••, or H	yarology <u>re</u>	naturally pro	oblematic?	(If needed,	explain any answe	ers in Remarks.)	
SUMMARY OF FINDIN	GS – Att	ach site n	nap showing	g sampling	point locati	ons, transects	s, important fe	eatures, etc.
Hydrophytic Vegetation Pres	sent?	<sub>Yes</sub> X	No	la tha	Compled Area			
Hydric Soil Present?		Yes	No X	is the	Sampled Area	Vos	No X	
Wetland Hydrology Present?	?	Yes	NoX	within		165	NO	-
Remarks:								
Pine Forest								
	ors:					Secondary Indica	ators (minimum of	two required)
Primary Indicators (minimum	of one is r	auirad: char	k all that apply)				Cracks (B6)	two required)
Surface Water (A1)			uatic Fauna (B1	3)			netated Concave	Surface (B8)
High Water Table (A2)			arl Deposits (B15	5) (LRR U)		Drainage Pa	tterns (B10)	Sunace (BO)
Saturation (A3)		Пну	drogen Sulfide (	Odor (C1) Moss Trim Lines (B16)				
Water Marks (B1)			dized Rhizosph	eres along Liv	ving Roots (C3)	Dry-Season	Water Table (C2)	
Sediment Deposits (B2)		Pro Pro	esence of Reduc	ced Iron (C4)		Crayfish Bur	rows (C8)	
Drift Deposits (B3)			cent Iron Reduc	tion in Tilled S	Soils (C6)	Saturation V	isible on Aerial Im	agery (C9)
Algal Mat or Crust (B4)		<u>П</u> Тh	in Muck Surface	(C7)		Geomorphic	Position (D2)	
Iron Deposits (B5)		L Ot	her (Explain in R	(emarks)		Shallow Aqu	itard (D3)	
Inundation Visible on A	erial Imager	y (B7)		FAC-Neutral Test (D5)				
Water-Stained Leaves (	B9)				1	Sphagnum r	noss (D8) <b>(LRR T</b>	, U)
Field Observations:		N. X	Denth (inches	<b>`</b>				
Surface Water Present?	Yes	No <u></u>	_ Depth (inches	):	<u> </u>			
Seturation Present?	Yes	NoX	_ Depth (Inches	):	Wotland		at2 Vac	No X
(includes capillary fringe)	165	NO	_ Depth (inches	)		nyulology Flesel		
Describe Recorded Data (st	ream gauge	, monitoring	well, aerial photo	os, previous ir	spections), if av	ailable:		
Remarks:								

Tree Stratum (Plot size: 30)       Dosider Species?       Status       Number of Dominant Species         1.       Pinus palustris       50       YES       FAC         2.	(A) (B) (A/B)
Initial formation       Protection       Protec	(A) (B) (A/B)
1.       Interview       <	(A) (A/B)
2.	(B) (A/B)
3.	(B) (A/B)
4.	(A/B)
5.	(A/B)
6.	
7.	-
Total % Cover of:       Multiply by:         8.	-
8.       50       = Total Cover         50% of total cover:       25       20% of total cover:       10         Sapling/Shrub Stratum (Plot size:       30       )       1         1.       Liquidambar styraciflua       30       YES       FAC         2.       Rhus copallinum       10       NO       FAC         3.       Sassafras albidum       5       NO       FACU         4.       Triadica sebifera       2       NO       FACU         5.       Morella cerifera       5       NO       FACU         6.       Ilex opaca       2       NO       FAC	
Subscription       Subscription <td< td=""><td></td></td<>	
Sapling/Shrub Stratum (Plot size: 30 )       20% of total cover: 10 FACW species 2 x 2 =         1. Liquidambar styraciflua       30 YES       FAC         2. Rhus copallinum       10 NO       FAC         3. Sassafras albidum       5 NO       FACU         4. Triadica sebifera       2 NO       FACU         5. Morella cerifera       5 NO       FACU         6 llex opaca       2 NO       FAC	
Sapling/Shrub Stratum (Plot size: 30 )       30 YES       FAC species x 3 =         1. Liquidambar styraciflua       30 YES       FAC         2. Rhus copallinum       10 NO       FAC         3. Sassafras albidum       5 NO       FACU         4. Triadica sebifera       2 NO       FACU         5. Morella cerifera       5 NO       FACU         6 llex opaca       2 NO       FACU	·
1. Liquidambar styraciflua       30       YES       FAC       FAC       Vestical section of the	
2.       Rhus copallinum       10       NO       FAC       UPL species       x 5 =         3.       Sassafras albidum       5       NO       FACU       Column Totals:       (A)         4.       Triadica sebifera       2       NO       FACU       Prevalence Index = B/A =         5.       Morella cerifera       5       NO       FAC       UPL         6       Ilex opaca       2       NO       FAC       UPL	
2.	
3.     Outcounter unitarity       4.     Triadica sebifera       5.     Morella cerifera       5.     NO       6.     Ilex opaca         A.     Triadica sebifera       7.     Prevalence Index = B/A =   Hydrophytic Vegetation Indicators:	(B)
4.     Triadica sebirera     2     NO     FACU     Prevalence Index = B/A =       5.     Morella cerifera     5     NO     UPL     Hydrophytic Vegetation Indicators:       6     Ilex opaca     2     NO     FAC     The second s	. ,
5.     Morella ceritera     5     NO     UPL       6     Ilex opaca     2     NO     FAC	_
6 llex opaca 2 NO FAC	
1 V I. I. I. I. Banid Test for Hydrophytic Vegetation	
0	
$54$ = I otal Cover $\square$ Problematic Hydrophytic Vegetation <sup>1</sup> (Explain	)
50% of total cover: $27$ 20% of total cover: $10.8$	
Herb Stratum (Plot size: <u>30</u> )	ust
1. Schizachyrium scoparium 30 YES FACU be present, unless disturbed or problematic.	
2 Dichanthelium sphaerocarpon 10 NO FACU Definitions of Four Vegetation Strata	
2 Bubus argutus 5 NO FAC	
$\frac{5}{100}$ $\frac{100}{100}$ $$	m) or
4. <u>Euparonal in local division 2</u> <u>NO</u> <u>TAO</u> more in diameter at breast height (DBH), regardle	ss of
5. <u>10xicodendron radicans</u> <u>2</u> <u>NO</u> FAC height.	
6. Callicarpa americana <u>2</u> <u>NO</u> <u>FACU</u> Sapling/Shrub – Woody plants, excluding vines,	ess
7. Tephrosia onobrychoides 2 NO NI than 3 in. DBH and greater than 3.28 ft (1 m) tall.	
8 Herb - All herbaceous (non-woody) plants, regar	المعد
9. of size, and woody plants less than 3.28 ft tall.	1000
10	
Woody vine – All woody vines greater than 3.28	t in
12	
53 = Total Cover	
50% of total cover: 26.5 20% of total cover: 10.6	
Woody Vine Stratum (Plot size: <sup>30</sup> )	
1 None	
·· <u> </u>	
3	
4	
5. Undershutia	
= Total Cover Vegetation	
= Total Cover Vegetation 50% of total cover: 20% of total cover: Yes X No	
= Total Cover Vegetation Present? Yes X No	
= Total Cover 50% of total cover: 20% of total cover: Present? Yes X No Remarks: (If observed, list morphological adaptations below).	

Profile Desc	ription: (Describe	to the depth	n needed to docum	nent the i	ndicator	or confirm	the absence	of indicato	ors.)	
Depth	Matrix		Redox	K Features	5					
(inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture		Remarks	6
0-8	10 YR 5/3	100					Silt Loam			
8-16	10 YR 6/4	100					Silt Loam			
		·								
	-					<u> </u>	·			
<sup>1</sup> Type: C=Co	ncentration. D=Dec	letion. RM=F	Reduced Matrix, MS	S=Masked	Sand Gra	ains.	<sup>2</sup> Location:	PL=Pore L	ining. M=Ma	trix.
Hydric Soil I	ndicators: (Applic	able to all L	RRs, unless other	wise note	ed.)		Indicators	for Proble	matic Hydri	c Soils <sup>3</sup> :
	(A1)		Polvvalue Bel	low Surfa	, ce (S8) <b>(L</b>	RR S. T. L	<b>J)</b> 1 cm M	uck (A9) <b>(I</b>	_RR O)	
Histic Ep	vipedon (A2)		Thin Dark Su	rface (S9)	(LRR S,	T, U)	2 cm M	uck (A10)	(LRR S)	
Black His	stic (A3)		Loamy Mucky	/ Mineral (	(F1) (LRR	0)	Reduce	ed Vertic (F	18) <b>(outsid</b>	e MLRA 150A,B)
Hydroge	n Sulfide (A4)		Loamy Gleye	d Matrix (	F2)			nt Floodpla	ain Soils (F1	9) (LRR P, S, T)
Stratified	l Layers (A5)		Depleted Mat	rix (F3)			L Anoma	lous Bright	Loamy Soils	s (F20)
Organic	Bodies (A6) <b>(LRR P</b>	, T, U)	Redox Dark S	Surface (F	6)		(MLR	A 153B)		
5 cm Mu	cky Mineral (A7) <b>(Ll</b>	RR P, T, U)	Depleted Dar	k Surface	(F7)			rent Mater	ial (TF2)	
Muck Pre	esence (A8) (LRR L	J)	Redox Depre	ssions (F8	3)		Very Sł	allow Darl	< Surface (TI	=12)
	CK (A9) <b>(LRR P, I)</b> L Dalaw Dark Surface	a (A11)	Mari (F10) <b>(L</b>			-4)	U Other (I	Explain in I	Remarks)	
	rk Surface (A12)	e (ATT)			(IVILKA I;		T) <sup>3</sup> Indica	ators of hyp	trophytic ver	netation and
	airie Redox (A16) (I	MI RA 150A)		ce (F13) <b>(</b>		U)	wetl:	and hydrol	nav must be	present
Sandy M	lucky Mineral (S1) (	LRR O. S)	Delta Ochric	(F17) <b>(ML</b>	RA 151)	, 0)	unle	ss disturbe	ed or problen	natic.
Sandy G	leyed Matrix (S4)	, _, _,	Reduced Ver	tic (F18) (	MLRA 15	0A, 150B)				
Sandy R	edox (S5)		Piedmont Flo	odplain S	oils (F19)	(MLRA 14	9A)			
Stripped	Matrix (S6)		Anomalous B	right Loar	ny Soils (I	- 20) <b>(MLR</b>	A 149A, 153C,	153D)		
Dark Sur	face (S7) <b>(LRR P, S</b>	S, T, U)								
Restrictive L	ayer (if observed)	:								
Туре:										X
Depth (inc	ches):						Hydric Soil	Present?	Yes	No
Remarks:							_			

Project/Site: Beauregard Airport Site	City/County: DeRidder/Bea	uregard	Sampling Date: 5/2/18
Applicant/Owner: CSRS, Inc.	, , <u> </u>	tate: LA	Sampling Point: 5-A
Investigator(s): C. Hoffpauir	Section, Township, Range: S1	1 T3S R10W	
Landform (hillslope, terrace, etc.): Intermound/Flat Subregion (LRR or MLRA): LRR-T Lat: 34098 Soil Map Unit Name: Caddo-Messer complex (CdA)	Local relief (concave, convex, r 07 Long: 40	none): <u>None</u> 65983 NWI classific	Slope (%): 0 Datum: UTM NAD 83
Are climatic / hydrologic conditions on the site typical for this time of ye	ar? Yes <u>^</u> No (	f no, explain in R	emarks.)
Are Vegetation <u>No</u> , Soil <u>No</u> , or Hydrology <u>No</u> significantly	disturbed? Are "Normal	Circumstances" p	present? Yes <u>^</u> No
SUMMARY OF FINDINGS – Attach site map showing	sampling point locatio	rpiain any answe	, important features, etc.
Hydrophytic Vegetation Present?       Yes X       No         Hydric Soil Present?       Yes X       No         Wetland Hydrology Present?       Yes X       No         Remarks:       Pine Forest       Vestart	Is the Sampled Area within a Wetland?	Yes X	No
HYDROLOGY			
Wetland Hydrology Indicators:         Primary Indicators (minimum of one is required; check all that apply)         Surface Water (A1)       Aquatic Fauna (B13)         High Water Table (A2)       Marl Deposits (B15)         Saturation (A3)       Hydrogen Sulfide C         Water Marks (B1)       Oxidized Rhizosphu         Sediment Deposits (B2)       Presence of Reduce         Drift Deposits (B3)       Recent Iron Reduce         Iron Deposits (B5)       Other (Explain in R)         Inundation Visible on Aerial Imagery (B7)       Other (Explain in R)         Water Table Present?       Yes X       No         Water Table Present?       Yes X       No         Depth (inches)       Saturation Present?       Yes X       No         Depth (inches)       Depth (inches)       Saturation Present?       Yes X       No         Describe Recorded Data (stream gauge, monitoring well, aerial photo       Describe Recorded Data (stream gauge, monitoring well, aerial photo	3) ) <b>(LRR U)</b> Ddor (C1) eres along Living Roots (C3) ed Iron (C4) tion in Tilled Soils (C6) (C7) emarks) : <u>0-3</u> : <u>0-3</u> : <u>0-14"</u> Wetland Hard rs, previous inspections), if avai	Secondary Indica Surface Soil Sparsely Veg Drainage Pa Moss Trim L Dry-Season Crayfish Bur Saturation V Geomorphic Shallow Aqu FAC-Neutral Sphagnum n ydrology Preser able:	ttors (minimum of two required) Cracks (B6) getated Concave Surface (B8) tterns (B10) ines (B16) Water Table (C2) rows (C8) isible on Aerial Imagery (C9) Position (D2) itard (D3) Test (D5) noss (D8) <b>(LRR T, U)</b>
Area with surface water within plot 5-A			

	Absolute	Dominant	Indicator	Dominance Test worksheet:	
Tree Stratum (Plot size: 30 )	% Cover	Species?	Status	Number of Dominant Species	
1. Pinus elliottii	60	YES	FACW	That Are OBL, FACW, or FAC: 4	(A)
2. Nyssa sylvatica	10	NO	FAC	Tatal New Jones ( Developed	
3. Crataegus opaca	5	NO	FACW	Species Across All Strata: 4	(B)
4. Triadica sebifera	5	NO	FAC		(2)
5	·			Percent of Dominant Species	
	·			That Are OBL, FACW, or FAC: (	(A/B)
7	·			Prevalence Index worksheet:	
7	·			Total % Cover of:Multiply by:	
8	80			OBL species x 1 =	
40	80	= Total Cov	rer	FACW species x 2 =	
50% of total cover: 40	20% of	total cover	16	FAC species x 3 =	
Sapling/Shrub Stratum (Plot size: <u>30</u> )					
1. Morella cerifera	20	YES	FAC	FACO species            x 4 =	
2. Symplocos tinctoria	5	YES	FAC	UPL species X 5 =	
3				Column Totals: (A)	(B)
4.				Brovelence Index - B/A -	
5.				Hedrey by the Manual Albertane	
6				Hydrophytic Vegetation Indicators:	
0	·			1 - Rapid Test for Hydrophytic Vegetation	
<i>1</i>	·			2 - Dominance Test is >50%	
8	05			$\boxed{\checkmark}$ 3 - Prevalence Index is $\leq 3.0^1$	
10.5	20	= Total Cov	rer	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)	)
50% of total cover: <u>12.5</u>	20% of	total cover	5		
Herb Stratum (Plot size: 30 )				<sup>1</sup> Indicators of hydric soil and wetland hydrology mu	ust
1. Juncus marginatus	10	YES	FACW	be present, unless disturbed or problematic.	
2. Aristida purpurascens	5	NO	FACW	Definitions of Four Vegetation Strata:	
3. Andropogon virginicus	5	NO	FAC		`
4 Eupatorium rotundifolium	2	NO	FAC	Iree – Woody plants, excluding vines, 3 in. (7.6 cr	n) or
5 Rubus argutus	2	NO	FAC	height.	55 01
e Pluchea foetida	2	NO	OBL		
<ul> <li>Xvris caroliniana</li> </ul>	2	NO	OBI	than 3 in DBH and greater than 3 28 ft (1 m) tall	ess
- Hypericum densiflerum	2		EACW/		
8. <u>Hypericum densmorum</u>	2	NO	TAOW	Herb - All herbaceous (non-woody) plants, regard	lless
9	·			of size, and woody plants less than 3.28 ft tall.	
10				Woody vine – All woody vines greater than 3.28 ft	t in
11				height.	
12. Eupatorium rotundifolium					
	30	= Total Cov	rer		
50% of total cover: 15	20% of	total cover:	6		
Woody Vine Stratum (Plot size: 30					
1 None					
1:	·				
2	·				
3	·				
4					
5				Hydrophytic	
		= Total Cov	rer	Vegetation	
50% of total cover:	20% of	total cover:	:	Present? Yes <u>^ No</u>	
Remarks: (If observed, list morphological adaptations belo	) )				
50% of total cover: Remarks: (If observed, list morphological adaptations belo	20% of	total cover:		Present? Yes X No	

#### SOIL

Profile Desc	ription: (Describe	to the dep	th needed to docun	nent the	indicator	or confirm	n the absence	of indicate	ors.)	
Depth	Matrix		Redo	x Feature	s	2				
(inches)	Color (moist)	<u>%</u>	Color (moist)		Type'		Texture	0	Remarks	
0-8	10 YR 4/1	95	5YR 4/6	5	C	M, PL	Silt Loam	Saturate	d	
8-16	10 YR 5/2	90	5YR 4/6	10	С	M, PL	Silt Loam	Saturate	d	
				·						
				·	· · ·	·				
1										
Type: C=Co	ncentration, D=Dep	bletion, RM	=Reduced Matrix, MS	S=Masked	d Sand Gr	ains.	Location:	PL=Pore L	ining, M=Mat	rix.
				low Surfa	.co.(S8) <b>(I</b>	PPSTI				
Histic En	pipedon (A2)		Thin Dark Su	rface (S9	) (LRR S.	T. U)	$D_2 \text{ cm}$	/luck (A9) (I	(LRR S)	
Black His	stic (A3)		Loamy Mucky	y Mineral	(F1) (LRF	R O)	Reduc	ed Vertic (F	(18) (outside	MLRA 150A,B)
Hydroge	n Sulfide (A4)		Loamy Gleye	d Matrix	(F2)		D Piedm	ont Floodpl	ain Soils (F19	) (LRR P, S, T)
Stratified	I Layers (A5)		Depleted Mat	trix (F3)				alous Bright	Loamy Soils	(F20)
Organic	Bodies (A6) (LRR P	', T, U)	Redox Dark S	Surface (F	F6)			RA 153B)		
5 cm Mu	cky Mineral (A7) (Ll	RR P, T, U) N	Depleted Dar	k Surface	e (F7)			arent Mater	ial (TF2) k Surfood (TE	(10)
	ck (A9) <b>(I RR P. T)</b>	"	Marl (F10) (I	RR U)	0)			(Explain in	Remarks)	12)
	Below Dark Surfac	e (A11)	Depleted Och	nric (F11)	(MLRA 1	51)		(=,,p.a	(containe)	
Thick Da	ark Surface (A12)		Iron-Mangane	ese Mass	ses (F12)	(LRR O, P,	T) <sup>3</sup> India	ators of hydratic contract of the second sec	drophytic veg	etation and
Coast Pr	airie Redox (A16) (I	MLRA 150	A) 📃 Umbric Surfa	ce (F13)	(LRR P, 1	', U)	wet	land hydrol	ogy must be	present,
Sandy M	lucky Mineral (S1) <b>(</b> I	LRR O, S)	Delta Ochric	(F17) <b>(MI</b>	LRA 151)		unl	ess disturbe	ed or problem	atic.
Sandy G	edox (S5)			(F18) odplain S	(IVILKA 1:	(MI RA 14	Ι٥Δ)			
Stripped	Matrix (S6)		Anomalous B	right Loa	mv Soils (	F20) (MLR	A 149A. 153C	. 153D)		
Dark Sur	face (S7) (LRR P, S	6, T, U)	<u> </u>			, (	,	,,		
Restrictive L	ayer (if observed)	:								
Туре:									X	
Depth (inc	ches):						Hydric Soil	Present?	Yes X	No
Remarks:										

Project/Site. Beauregard Air	port Site		City/C	ounty: DeF	lidder/Beau	regard	Sampling Date:	5/2/18
Applicant/Owner: CSRS. Inc	 D.			ounty	Sto	to. LA	Sampling Date: _	6-A
Invostigator(c). C. Hoffpauir	<u>.</u>		Soctio	on Townshin	31a	T3S R10W	Sampling Fold.	
Landform (hillsland, torraco, otc	Depressi	on		roliof (conco		. Concave	Slop	(0/). 0
	;.): <u></u> ≀R-T		LUCa	relier (conca	ve, convex, nor	928.73	0iupt	e (%). UTM NAD 83
Subregion (LRK or WILKA):	Messer com	olex (CdA	Lat: <u>00</u>		Long:			um:
Soil Map Unit Name:				Υ.		NWI classifica	ation:	
Are climatic / hydrologic conditi	ons on the site	typical for No.	this time of year? Y	'es <u>^</u> N	√o (lt r	no, explain in Re	emarks.)	
Are Vegetation <u>INO</u> , Soil <u>INO</u>	), or Hydro	logy No	significantly distur	bed?	Are "Normal Cir	rcumstances" pr	resent? Yes <u>^</u>	No
Are Vegetation <u>INO</u> , Soil <u>INC</u>	), or Hydro	ology NO	naturally problema	atic? (	If needed, expl	lain any answer	s in Remarks.)	
SUMMARY OF FINDING	S – Attacl	h site ma	ap showing sam	npling poi	nt locations	s, transects,	important fe	atures, etc.
Hydrophytic Vegetation Prese Hydric Soil Present? Wetland Hydrology Present? Remarks:	nt? Ye Ye Ye	es X es X es X	No No No	Is the Sam within a We	pled Area etland?	Yes X	No	
Pine Forest								
HYDROLOGY								
Wetland Hydrology Indicato	rs:				Se	condary Indicat	ors (minimum of t	wo required)
Primary Indicators (minimum	of one is requi	red; check	all that apply)		[	Surface Soil C	Cracks (B6)	
Surface Water (A1)			atic Fauna (B13)			Sparsely Veg	etated Concave S	Surface (B8)
High Water Table (A2)			Deposits (B15) (LRI	R U)		Drainage Patt	terns (B10)	
Saturation (A3)			rogen Sulfide Odor (	C1)			nes (B16)	
$\bigcup_{n \in \mathbb{N}} \text{Water Marks (B1)}$			lized Rhizospheres a	long Living K	loots (C3)	Dry-Season v	Vater Table $(C_2)$	
$\square Drift Deposite (B3)$			Sence of Reduced no	n (U4) Tillad Sails (			OWS (UX) Sible on Aerial Ima	
$\square \Delta Intermodel Matter Crust (B4)$			Muck Surface (C7)			Comornhic F	Position (D2)	
Iron Deposits (B5)			r (Explain in Remark	(2)		Shallow Aquit	ard (D3)	
Inundation Visible on Aer	ial Imagery (B	7)		,		FAC-Neutral	Test (D5)	
Water-Stained Leaves (B	9)	.,			Ē	Sphagnum m	oss (D8) <b>(LRR T,</b>	U)
Field Observations:	<u>.</u>							
Surface Water Present?	Yes	No X	Depth (inches):					
Water Table Present?	Yes	No X	Depth (inches):					
Saturation Present? (includes capillary fringe)	Yes X	No	Depth (inches): 0-16	6"	Wetland Hyd	rology Present	? Yes X	No
Describe Recorded Data (stre	am gauge, mo	onitoring we	ell, aerial photos, pre	vious inspect	tions), if availab	ole:		
Domorko								
Remarks.								

Sampling	Point:	6-A
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00.00	Absolute	Dominant	Indicator	Dominance Test worksheet:
Tree Stratum (Plot size: 20x30 )	<u>% Cover</u>	Species?	<u>Status</u>	Number of Dominant Species
1. Iriadica sebitera	5	YES	FAC	That Are OBL, FACW, or FAC: (A)
2. Platanus occidentalis	2	YES	FACW	Total Number of Dominant
3				Species Across All Strata: <u>6</u> (B)
4				
5.				Percent of Dominant Species
6				
7				Prevalence Index worksheet:
0				Total % Cover of: Multiply by:
o	7			OBL species x 1 =
		= Total Cov	er	FACW species x 2 =
50% of total cover: 3.5	20% of	total cover:	1.4	
Sapling/Shrub Stratum (Plot size: 20x30 )				
1. Pinus elliottii	2	YES	FACW	FACU species x 4 =
2. Triadica sebifera	2	YES	FAC	UPL species X 5 =
3				Column Totals: (A) (B)
4.				Brovalance Index - B/A -
5				
6				Hydrophytic Vegetation Indicators:
0				1 - Rapid Test for Hydrophytic Vegetation
7				2 - Dominance Test is >50%
8	- <u> </u>			$\boxed{\checkmark}$ 3 - Prevalence Index is ≤3.0 <sup>1</sup>
	4	= Total Cov	er	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
50% of total cover: 2	20% of	total cover	0.8	
Herb Stratum (Plot size: 20x30 )				<sup>1</sup> Indicators of hydric soil and wetland hydrology must
1. Andropogon virginicus	10	YES	FACW	be present, unless disturbed or problematic.
2. Cyperus acuminatus	5	NO	OBL	Definitions of Four Vegetation Strata:
3 Ampelopsis arboreum	10	YES	FAC	, , , , , , , , , , , , , , , , , , ,
A Eleocharis microcarpa	5	NO	OBI	<b>Tree</b> – Woody plants, excluding vines, 3 in. (7.6 cm) or
4	2	NO	OBL	height.
5	<u></u>			noight
6			<u> </u>	Sapling/Shrub – Woody plants, excluding vines, less
7				than 3 in. DBH and greater than 3.28 ft (1 m) tall.
8				Herb – All herbaceous (non-woody) plants, regardless
9				of size, and woody plants less than 3.28 ft tall.
10				Weedy vine All woody vines greater than 2.28 ft in
11.				height.
12.				
	32	- Total Cov	er	
50% of total cover: 16	20% of	total covor	6.4	
Wester View Obstance (Platising 20x30	20 % 01			
Nono				
1				
2				
3				
4				
5				Hydrophytic
		= Total Cov	er	Vegetation
50% of total cover:	20% of	total cover		Present? Yes X No
Pomarke: (If observed list morphological adaptations hol				
Remarks. (If observed, list morphological adaptations bein	JW).			

#### SOIL

Profile Desc	ription: (Describe	to the dep	th needed to docum	nent the	indicator	or confirm	n the absence	of indicators.)
Depth	Matrix		Redo	x Feature	s1	. 2		
(inches)	Color (moist)		Color (moist)	<u>%</u>	Type'			Remarks
0-8	10 YR 5/1	90	5YR 4/6	10	<u> </u>	M, PL	Slit Loam	Saturated
8-16	10 YR 6/2	70	7.45YR 5/8	30	С 	M, PL	Silt Loam	Saturated
<sup>1</sup> Type: C=Co	oncentration. D=Der	letion. RM	=Reduced Matrix. MS	S=Maske	d Sand Gr	ains.	<sup>2</sup> Location:	PL=Pore Lining, M=Matrix,
Hydric Soil I Histosol Histic Ep Black Hi Hydroge Stratified Organic 5 cm Mu Muck Pr 1 cm Mu Depleted Thick Da Coast Pr Sandy M Sandy G Sandy R Stripped Dark Sui	Indicators: (Applic (A1) bipedon (A2) stic (A3) in Sulfide (A4) d Layers (A5) Bodies (A6) (LRR P icky Mineral (A7) (L1 esence (A8) (LRR L ick (A9) (LRR P, T) d Below Dark Surface ark Surface (A12) rairie Redox (A16) (I fucky Mineral (S1) (I Bieyed Matrix (S4) tedox (S5) Matrix (S6) rface (S7) (LRR P, S	able to all r, T, U) RR P, T, U) e (A11) MLRA 150 LRR O, S)	LRRs, unless other Polyvalue Be Thin Dark Su Loamy Mucky Loamy Gleyer ✓ Depleted Mat Redox Dark S Depleted Dar Redox Depre Marl (F10) (L Depleted Oct Iron-Mangan Umbric Surfa Delta Ochric Reduced Ver Piedmont Flo Anomalous B	wise not low Surfa rface (S9 y Mineral d Matrix trix (F3) Surface (I k Surface (F3) Surface (F1) ese Mass ce (F13) (F17) (MI tic (F18) odplain S sright Loa	eed.) ace (S8) (L (LRR S, (F1) (LRF (F2) F6) e (F7) (8) (MLRA 1 (LRR P, T LRA 151) (MLRA 15 Soils (F19) my Soils (	ERR S, T, U T, U) 2 O) 51) LRR O, P, 50A, 150B) (MLRA 14 F20) (MLR	J) Indicators J) I cm N 2 cm N Reduc Piedm Anoma (MLI Red P: Very S Other T) <sup>3</sup> Indic wef unle LIPA) A 149A, 153C	for Problematic Hydric Soils <sup>3</sup> : Auck (A9) (LRR O) Auck (A10) (LRR S) ed Vertic (F18) (outside MLRA 150A,B) ont Floodplain Soils (F19) (LRR P, S, T) alous Bright Loamy Soils (F20) RA 153B) arent Material (TF2) shallow Dark Surface (TF12) (Explain in Remarks) cators of hydrophytic vegetation and tland hydrology must be present, ess disturbed or problematic. 5, 153D)
Type:							Hydric Soil	Prosent? Vos X No
Depth (int							Hyuric Soli	

Project/Site: Beauregard Airp	ort Site	City/County:	DeRidder/Bea	uregard	Sampling Date: 5/2	/18		
Applicant/Owner: CSRS, Inc			S	<sub>tate:</sub> LA	Sampling Point: 7-A	4		
Investigator(s): C. Hoffpauir		Section, To	Section Township Range: S11 T3S R10W					
Landform (hillslope terrace etc.	<sub>)</sub> . Ridge	Local relief (	concave convex n	one). Convex	Slope (%	<sub>(4)</sub> . 1-3		
Subragian (LDD at MLDA), LBI	R-T		Longe 46	6105.73		. UTM NAD 83		
Subregion (LRR of MLRA):	La lesser complex (CdA)		Long.		Datum	•		
Soli Map Unit Name: <u>Cadad II</u>		X			ation:			
Are climatic / hydrologic conditio	ns on the site typical for this t	ime of year? Yes X	No (li	f no, explain in R	emarks.)			
Are Vegetation NO, Soil NO	, or Hydrology <u>NO</u> sig	nificantly disturbed?	Are "Normal (	Circumstances" p	resent? Yes X	_ No		
Are Vegetation <u>NO</u> , Soil <u>NO</u>	, or Hydrology <u>No</u> na	urally problematic?	(If needed, ex	plain any answe	rs in Remarks.)			
SUMMARY OF FINDING	S – Attach site map s	nowing sampling	g point location	ns, transects	, important featu	ures, etc.		
Hydrophytic Vegetation Preser Hydric Soil Present? Wetland Hydrology Present? Remarks:	nt? Yes X No Yes No Yes No	X Is the within	e Sampled Area n a Wetland?	Yes	No <u>X</u>			
Pine Forest								
HYDROLOGY								
Wetland Hydrology Indicator	'S:		<u>,</u>	Secondary Indica	tors (minimum of two	required)		
Primary Indicators (minimum o	f one is required; check all the	at apply)		Surface Soil	Cracks (B6)			
Surface Water (A1)	Aquatic Fa	auna (B13)	l	Sparsely Veg	getated Concave Surf	ace (B8)		
High Water Table (A2)	Harl Depo	osits (B15) <b>(LRR U)</b>	l	Drainage Pat	tterns (B10)			
Saturation (A3)	Hydrogen	Sulfide Odor (C1)		Moss Trim Li	nes (B16)			
Water Marks (B1)		Rhizospheres along L	iving Roots (C3)	Dry-Season	Water Table (C2)			
Sediment Deposits (B2)		of Reduced Iron (C4)	ced Iron (C4) Trayfish Burrows (C8)					
		n Reduction in Tilled	tion in Tilled Soils (C6) $\Box$ Saturation Visible on Aerial Imagery (C9)					
		Surface (C7)	l ſ		Position (D2)			
Iron Deposits (B5)		plain in Remarks)	T L		tard (D3)			
	ai imagery (D7)		1					
Field Observations:	))		I		1055 (D6) (LKK 1, 0)			
Surface Water Present?	Vec No X Dept	(inches);						
Water Table Present?	Vea No X Dept		—					
Seturation Present?	Yes No X Depti		Wotland Hy		t2 Voc N	a X		
(includes capillary fringe)		I (Inches).		alology Plesen		<u> </u>		
Describe Recorded Data (strea	am gauge, monitoring well, ae	rial photos, previous i	nspections), if avail	able:				
Remarks:								

	Absolute	Dominant	Indicator	Dominance Test worksheet:		
Tree Stratum (Plot size: 30 )	% Cover	Species?	Status	Number of Dominant Species		
1. Pinus palustris	40	YES	FAC	That Are OBL, FACW, or FAC: $\underline{6}$ (A)		
2. Pinus taeda	40	YES	FAC	Tatal Number of Daminant		
3. Triadica sebifera	5	NO	FAC	Species Across All Strata: 8 (B)		
4. Quercus nigra	2	NO	FAC	(=)		
5.				Percent of Dominant Species		
6	·			That Are OBL, FACW, OF FAC. (A/B)		
7	·			Prevalence Index worksheet:		
8	·			Total % Cover of: Multiply by:		
0	87	– Total Cov	or	OBL species x 1 =		
50% of total cover: 43.5	20% of	total cover	17.4	FACW species x 2 =		
Sapling/Shrub Stratum (Plot size: 30	20 % 01			FAC species x 3 =		
<u>Saping/Sinub Stratum</u> (Flot size)	60	YES	FAC	FACU species x 4 =		
Vaccinium arboreum	10	NO	FAC	UPL species x 5 =		
2. Phus copollinum	5			Column Totals: (A) (B)		
	5		EACU			
4. Uanicarpa amendana	0			Prevalence Index = B/A =		
5. Morella cerifera	2	NO		Hydrophytic Vegetation Indicators:		
6		NO	FAC	1 - Rapid Test for Hydrophytic Vegetation		
7				2 - Dominance Test is >50%		
8				$\boxed{2}$ 3 - Prevalence Index is $\leq 3.0^1$		
	82	= Total Cov	er	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)		
50% of total cover: 41	20% of	total cover:	16.4	<u> </u>		
Herb Stratum (Plot size: <sup>30</sup> )				<sup>1</sup> Indicators of hydric soil and wetland hydrology must		
1. Callicarpa americana	5	YES	FACU	be present, unless disturbed or problematic.		
2. Muhlenbergia capillaris	5	YES	FACU	Definitions of Four Vegetation Strata:		
3 Vaccinium arboreum	5	YES	FAC			
<ul> <li><u>Tephrosia onobrychoides</u></li> </ul>	5	YES	FAC	<b>Tree</b> – Woody plants, excluding vines, 3 in. (7.6 cm) or		
5 Rubus argutus	2	NO	FAC	height.		
o Vernonia gigantea	2	NO	FACU			
<ul> <li>Andropogon virginicus</li> </ul>	2	NO	NI	Sapling/Shrub – Woody plants, excluding vines, less than 3 in DBH and greater than 3 28 ft (1 m) tall		
8	·			Herb – All herbaceous (non-woody) plants, regardless		
9	·		·	or size, and woody plants less than 3.28 it tall.		
10	·		<u> </u>	Woody vine - All woody vines greater than 3.28 ft in		
11	·			height.		
12			·			
	26	= Total Cov	er			
50% of total cover: <u>13</u>	20% of	total cover:	5.2			
Woody Vine Stratum (Plot size: <u>30</u> )						
1. Smilax glauca	5	YES	FAC			
2						
3						
4						
5				Hydrophytic		
	5	= Total Cov	er	Vegetation		
50% of total cover: 2.5	20% of	total cover:	1	Present? Yes X No		
Remarks: (If observed, list morphological adaptations belo	ow).			1		
	/-					

SUL
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Profile Desc	ription: (Describe	to the dep	th needed to docum	nent the	indicator	or confirm	n the absence	of indicators.)
Depth	Matrix		Redox	<pre>k Feature</pre>	S			
(inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks
0-7	10 YR 6/3	100					Silt Loam	
7-11	10 YR 5/3	100					Silt Loam	
11-16	10yr 6/3	95	5yr 5/8	5	С	М	Silt Loam	
		·			·			
11-16         11-16         "Type: C=Cc         Hydric Soil I         Histosol         Histosol         Histic Ep         Black His         Hydroge         Stratified         Organic         5 cm Mu         Depleted         Thick Da         Coast Pr         Sandy M         Sandy R         Stripped         Dark Sun         Restrictive L         Type:         Depth (inc         Remarks:	10 ITTO/O 10yr 6/3 10yr	, T, U) , T, U) able to all (All)	5yr 5/8	5 Masked wise not low Surfa frace (S9 / Mineral d Matrix (F3) Surface (I k Surface (S9 / Mineral d Matrix (F1) Surface (I k Surface (S9 / Mineral d Matrix (F1) Surface (S9 / Mineral d Matrix (F1) Surface (S1) (F17) (MI tic (F18) odplain S right Loa	C d Sand Gra ed.) ace (S8) (L ) (LRR S, (F1) (LRR (F2) =6) e (F7) 8) (MLRA 15 ces (F12) ( (LRR P, T LRA 151) (MLRA 15 Soils (F19) my Soils (l	M 	Silt Loam Silt Loam 2Location: Indicators U) 1 cm M 2 cm M Reduce Piedmo Anoma (MLR Red Pa Very SI Other ( , T) <sup>3</sup> Indica wett unle AA 149A, 153C, Hydric Soil	PL=Pore Lining, M=Matrix. for Problematic Hydric Soils <sup>3</sup> : luck (A9) (LRR O) luck (A10) (LRR S) ed Vertic (F18) (outside MLRA 150A,B) ont Floodplain Soils (F19) (LRR P, S, T) lous Bright Loamy Soils (F20) A 153B) arent Material (TF2) hallow Dark Surface (TF12) Explain in Remarks) ators of hydrophytic vegetation and and hydrology must be present, ass disturbed or problematic. 153D) Present? Yes <u>No X</u>

Project/Site. Beauregard Airport Site	City/County: DeF	Ridder/Beaurega	ard s	ampling Date. 5/3/18		
Applicant/Owner: CSRS, Inc.	Only/Obdanty	State: L	A s	ampling Point: 8-A		
Investigator(s). C. Hoffpauir	Section Townshir	Range: S11 T3S	R10W			
Landform (billslope terrace etc.). Ridge	Local relief (conca	ive convex none). (	Convex	Slope (%). 1-3		
Subregion (LRB or MLRA): LRR-T	409594	Long: 466147		Olops (70) Datum: UTM NAD 83		
Soil Map Linit Name. Caddo-Messer complex (CdA)			VI classificati	on. None		
Are climatic / hydrologic conditions on the site typical for this time	of year? Vec X		volain in Par	on:		
Are Vegetetion NO soil NO or Liverslam, NO signifi	or year? res		atonooo" nro	anto Vac X Na		
Are vegetation <u></u> , Soil <u></u> , or Hydrology <u></u> signifi	cantiy disturbed?	Are Normal Circums	stances pre	sent? Yes <u>//</u> No		
Are Vegetation <u>100</u> , Soil <u>100</u> , or Hydrology <u>100</u> natura	lly problematic?	(If needed, explain a	any answers	in Remarks.)		
SUMMARY OF FINDINGS – Attach site map sho	wing sampling poi	nt locations, tra	ansects, i	mportant features, etc.		
Hydrophytic Vegetation Present?       Yes       No         Hydric Soil Present?       Yes       No       X         Wetland Hydrology Present?       Yes       No       X         Remarks:       Ketter       Ketter       Ketter       Ketter	Is the Sam within a W	pled Area /etland?	Yes	No <u>X</u>		
Non-wet Ridge Pine Forest						
HYDROLOGY						
Wetland Hydrology Indicators:		Second	ary Indicato	rs (minimum of two required)		
Primary Indicators (minimum of one is required; check all that a	pply)	🗌 Sui	rface Soil Cr	acks (B6)		
Surface Water (A1)	a (B13)	🔲 Spa	arsely Veget	ated Concave Surface (B8)		
High Water Table (A2)	s (B15) <b>(LRR U)</b>	🔲 Dra	ainage Patte	rns (B10)		
Saturation (A3)	lfide Odor (C1)	<u> </u> Мо	oss Trim Line	s (B16)		
Water Marks (B1)	zospheres along Living F	Roots (C3) 🛛 🔲 Dry	y-Season Wa	ater Table (C2)		
Sediment Deposits (B2)	Reduced Iron (C4)	ed Iron (C4)				
Drift Deposits (B3)	Reduction in Tilled Soils	(C6) 🔟 Sat	turation Visit	ble on Aerial Imagery (C9)		
Algal Mat or Crust (B4)	Irface (C7)		omorphic Po	osition (D2)		
Iron Deposits (B5)	n in Remarks)	Sha	allow Aquita	rd (D3)		
Inundation Visible on Aerial Imagery (B7)			C-Neutral Te	est (D5)		
Water-Stained Leaves (B9)		Spl	hagnum mos	ss (D8) <b>(LRR T, U)</b>		
Field Observations:	vehee).					
Weter Table Present? Yes No Depth (in	ches):					
Saturation Present? Yes No X Depth (ii	iches).	Wetland Hydrolog	ny Present?	Yes No X		
(includes capillary fringe)		Wetland Hydrolog	gyrresenti			
Describe Recorded Data (stream gauge, monitoring well, aerial	photos, previous inspec	tions), if available:				
Pomarka:						
Remains.						

Sampling	Point:	8-A
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	Absolute	Dominant	Indicator	Dominance Test worksheet		
Tree Stratum (Plot size: 30 )	<u>% Cover</u>	Species?	Status	Number of Dominant Species		
1 Pinus palustris	50	YES	FAC	That Are OBL, FACW, or FAC: $^3$ (A)		
2						
2				Total Number of Dominant		
3	·		<u> </u>	Species Across All Strata: <u>5</u> (B)		
4				Percent of Dominant Species		
5				That Are OBL, FACW, or FAC: $60$ (A/B)		
6.						
7				Prevalence Index worksheet:		
0				Total % Cover of: Multiply by:		
o	50			OBL species x 1 =		
05	50	= Total Cov	rer	FACW species x 2 =		
50% of total cover: 25	20% of	total cover	10			
Sapling/Shrub Stratum (Plot size: <u>30</u> )						
1. Liquidambar styraciflua	30	YES	FAC	FACU species x 4 =		
2. Rhus copallinum	20	YES	UPL	UPL species x 5 =		
3 Callicarpa americana	10	NO	FACU	Column Totals: (A) (B)		
Ilex vomitoria	10	NO	FAC			
- Prunus constina	10		EACU	Prevalence Index = B/A =		
5. Fluids serolina			FACU	Hydrophytic Vegetation Indicators:		
6. Vaccinium arboreum	5	NO	FACU	1 - Rapid Test for Hydrophytic Vegetation		
7. Pinus palustris	5		FAC	$\square$ 2 - Dominance Test is >50%		
8. Morella cerifera	2		FAC	$\boxed{2}$ 2 Providence Index is $\leq 2.0^{1}$		
	94	= Total Cov	er	$\square$ Buckle and in the decision is $23.0$		
E0% of total accurate 47	200/ of		. 18.8	Problematic Hydrophytic Vegetation (Explain)		
50% 01 total cover.	20% 01					
Herb Stratum (Plot size: 50 )				<sup>1</sup> Indicators of hydric soil and wetland hydrology must		
1. Schizachyrium scoparium	70	YES	FACU	be present, unless disturbed or problematic.		
2. Rhus copallinum	10	NO	UPL	Definitions of Four Vegetation Strata:		
3. Mimosa hystricina	5	NO	FACU			
A Rubus argutus	5	NO	FAC	Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or		
- Eupatorium rotundifolium	2	NO	FAC	height.		
5. Lygodium ianonicum			FAC			
6. Lygoulum japonicum		NO	FAC	Sapling/Shrub – Woody plants, excluding vines, less		
7				than 3 in. DBH and greater than 3.28 ft (1 m) tall.		
8				Herb – All herbaceous (non-woody) plants, regardless		
9				of size, and woody plants less than 3.28 ft tall.		
10.						
11				Woody vine – All woody vines greater than 3.28 ft in		
10				neight.		
12						
	94	= Total Cov	rer			
50% of total cover: 47	20% of	total cover	18.8			
Woody Vine Stratum (Plot size: 30 )						
1. Smilax glauca	5	YES	FAC			
2						
2						
S						
4						
5				Hydrophytic		
	5	= Total Cov	rer	Vegetation		
50% of total cover: 2.5	20% of	total cover	1	Present? Yes <u>^</u> No		
Remarks: (If observed, list morphological adaptations belo	()					
Remarks. (If observed, list morphological adaptations bein	Jvv).					

Profile Desc	ription: (Describe	to the depth	needed to docum	nent the i	ndicator	or confirm	the absence	of indicators.)
Depth	Matrix		Redox	K Features	S1	. 2	_	
(inches)	Color (moist)		Color (moist)	%	Туре		Citt Learn	Remarks
0-9	10 YR 5/3						Sill Loam	
9-16	10 YR 6/4	100					Silt Loam	
		lation PM-F	aduaad Matrix MS	-Maakad			<sup>2</sup> L contion:	DI - Doro Lining M-Motrix
Hvdric Soil	ndicators: (Applic	able to all L	RRs. unless other	wise note	ed.)	airis.	Indicators	for Problematic Hydric Soils <sup>3</sup> :
	(A1)		Polyvalue Bel	low Surfa	ce (S8) <b>(L</b>	RR S. T. U		Auck (A9) (LRR O)
Histic Ep	pipedon (A2)		Thin Dark Su	rface (S9)	(LRR S,	T, U)	2 cm N	/luck (A10) (LRR S)
Black Hi	stic (A3)		Loamy Mucky	/ Mineral	(F1) <b>(LRR</b>	0)	Reduc	ed Vertic (F18) (outside MLRA 150A,B)
Hydroge	n Sulfide (A4)		Loamy Gleye	d Matrix (	F2)			ont Floodplain Soils (F19) (LRR P, S, T)
	Layers (A5)	· <b>T</b> II)	Depleted Mat	rix (F3)	·(c)			alous Bright Loamy Soils (F20)
	cky Mineral (A7) <b>(LRR F</b>	, Ι, Ο) RR Ρ Τ ΙΙ)		k Surface	(F7)			<b>XA 1336)</b> arent Material (TE2)
Muck Pr	esence (A8) (LRR L	J)	Redox Depre	ssions (F	(i / ) B)		Very S	hallow Dark Surface (TF12)
🔲 1 cm Mu	ck (A9) (LRR P, T)		Marl (F10) (L	RR U)			Other (	(Explain in Remarks)
Depleted	Below Dark Surfac	e (A11)	Depleted Och	nric (F11)	(MLRA 1	51)	2	
Thick Da	ark Surface (A12)		Iron-Mangane	ese Masse	es (F12) <b>(</b> 1 PP P T	LRR O, P,	T) Indic	ators of hydrophytic vegetation and
Sandy M	lucky Mineral (S1) (	RR O. S)	Delta Ochric (	(F17) <b>(MI</b>	RA 151)	, 0)	unle	ess disturbed or problematic
Sandy G	leyed Matrix (S4)		Reduced Ver	tic (F18) <b>(</b>	MLRA 15	0A, 150B)	ci i i	
Sandy R	edox (S5)		Piedmont Flo	odplain S	oils (F19)	(MLRA 14	9A)	
Stripped	Matrix (S6)		Anomalous B	right Loar	ny Soils (I	=20) <b>(MLR</b>	A 149A, 153C	, 153D)
Dark Su	face (S7) (LRR P, S	S, T, U)					1	
Tupo	ayer (if observed)							
Dopth (in	shoc):						Hydric Soil	Prosent? Vas No X
Deptil (int							Hyune Son	
Remarks.								

Project/Site: Beauregard Airport Site		City/County: DeF	Ridder/Beauregard	Sampling Date: 5/3/18
Applicant/Owner: CSRS, Inc.			State: LA	Sampling Point: 9-A
Investigator(s): C. Hoffpauir		Section, Township	, Range: S11 T3S R10	W
Landform (hillslope, terrace, etc.): Slope		Local relief (conca	ve, convex, none): Conv	/ex Slope (%): 1-3
Subreaion (LRR or MLRA): LRR-T	Lat: 34102	214.02	Long: 465993.34	Datum: UTM NAD 83
Soil Map Unit Name: Caddo-Messer com	nplex (CdA)		NWI cla	ssification: None
Are climatic / hvdrologic conditions on the si	te typical for this time of ve	ear? Yes X	No (If no. explain	in Remarks.)
Are Vegetation No . Soil No . or Hvd	No significantly	v disturbed?	Are "Normal Circumstanc	es" present? Yes X No
Are Vegetation No Soil No or Hvd	rology No naturally pr	oblematic?	(If needed, explain any ar	nswers in Remarks.)
SUMMARY OF FINDINGS – Attac	ch site map showing	g sampling poi	nt locations, transe	ects, important features, etc.
Hydrophytic Vegetation Present?	res X No	Is the Sam	pled Area	
Hydric Soil Present?	res No X	within a W	etland? Yes	No <u>X</u>
Wetland Hydrology Present?	/es No			
Wall Drained Sloping				
Pine Forest				
HYDROLOGY				
Wetland Hydrology Indicators:			Secondary II	ndicators (minimum of two required)
Primary Indicators (minimum of one is requ	uired; check all that apply)		Surface	Soil Cracks (B6)
Surface Water (A1)	Aquatic Fauna (B1	3)	Sparsely	y Vegetated Concave Surface (B8)
High Water Table (A2)	Marl Deposits (B1	5) <b>(LRR U)</b>	Drainag	e Patterns (B10)
Saturation (A3)	Hydrogen Sulfide	Odor (C1)		im Lines (B16)
Vater Marks (B1)		eres along Living F	coots (C3) Dry-Sea	Son Water Table (C2)
Drift Deposits (B2)		ced from (C4)	$(C6)$ $\Box$ Crayiish	n Visible on Aerial Imageny (C9)
Algal Mat or Crust (B4)	Thin Muck Surface	2 (C7)		rohic Position (D2)
Iron Deposits (B5)	Other (Explain in F	Remarks)	Shallow	Aquitard (D3)
Inundation Visible on Aerial Imagery (I	37)	,	FAC-Ne	utral Test (D5)
Water-Stained Leaves (B9)			Sphagn	um moss (D8) <b>(LRR T, U)</b>
Field Observations:				
Surface Water Present? Yes	No X Depth (inches	s):		
Water Table Present? Yes	No X Depth (inches	s):		
Saturation Present? Yes	No X Depth (inches	s):	Wetland Hydrology Pr	esent? Yes <u>No <sup>X</sup></u>
Describe Recorded Data (stream gauge, n	nonitoring well, aerial phot	os, previous inspec	tions), if available:	
Remarks:				

Sampling	Point:	9-A
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	Absolute	Dominant	Indicator	Dominance Test worksheet
Tree Stratum (Plot size: 30 )	% Cover	Species?	Status	Number of Dominant Species
1. Pinus taeda	70	YES	FAC	That Are OBL, FACW, or FAC: <sup>4</sup> (A)
2 Nyssa sylvatica	10	NO	FAC	
3 Sassafras albidum	5	NO	FACU	Total Number of Dominant
Quercus nigra	2	NO	FAC	Species Across All Strata (B)
4. Liquidambar styraciflua	2	NO	FAC	Percent of Dominant Species
	<u> </u>		1710	That Are OBL, FACW, or FAC: 80 (A/B)
6				Prevalence Index worksheet:
7				Total % Cover of: Multiply by:
8				OBI species x 1 =
	89	= Total Cov	er	
50% of total cover: 44.5	20% of	total cover:	17.8	
Sapling/Shrub Stratum (Plot size: <u>30</u> )				FAC species x 3 =
1. Ilex vomitoria	40	YES	FAC	FACU species X 4 =
2. Prunus serotina	10	YES	FACU	UPL species x 5 =
3. Callicarpa americana	5	NO	FACU	Column Totals: (A) (B)
4. Sassafras albidum	5	NO	FACU	Drovelence Index - P/A -
5 Vaccinium arboreum	5	NO	FACU	
6 llex opaca	2	NO	FAC	Hydrophytic Vegetation Indicators:
7				1 - Rapid Test for Hydrophytic Vegetation
/				└── 2 - Dominance Test is >50%
8	67			3 - Prevalence Index is ≤3.0 <sup>1</sup>
00 5	07	= Total Cov	er	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
50% of total cover: 33.5	20% of	total cover	13.4	
Herb Stratum (Plot size: 30 )				<sup>1</sup> Indicators of hydric soil and wetland hydrology must
1. Athyrium filix-femina	40	YES	FAC	be present, unless disturbed or problematic.
2. Toxicodendron radicans	5	NO	FAC	Definitions of Four Vegetation Strata:
3. Vitis rotundifolia	5	NO	FAC	<b>Tree</b> – Woody plants, excluding vines, 3 in (7.6 cm) or
4. Rubus argutus	5	NO	FAC	more in diameter at breast height (DBH), regardless of
5.				height.
6.				Sanling/Shrub - Woody plants, evoluting vines, less
7				than 3 in. DBH and greater than 3.28 ft (1 m) tall.
8				
0				Herb – All herbaceous (non-woody) plants, regardless
3				
10				Woody vine – All woody vines greater than 3.28 ft in
11				height.
12				
	55	= Total Cov	rer	
50% of total cover: 27.5	20% of	total cover:		
<u>Woody Vine Stratum</u> (Plot size: <u>30</u> )				
1. Smilax glauca	10	YES	FAC	
2				
3				
4.				
5.				Hydrophytic
	10	- Total Cov	er	Vegetation
50% of total cover: 5	20% of	total cover	. 2	Present? Yes X No
	20 % 01		·	
Remarks: (If observed, list morphological adaptations belo	w).			

#### SOIL

Profile Desc	ription: (Describe	to the dep	th needed to docum	nent the	indicator	or confirm	n the absence	of indicators.)
Depth	Matrix		Redox	<u> Feature</u>	S 1	. 2	-	- ·
(inches)	LOVE 5/2		Color (moist)	<u>%</u>	<u>Type</u>		<u>l exture</u>	Remarks
0-0	10 TH 5/3	90	FVD 4/6	5	<u> </u>		Silt Loam	
11.10	10 TH 0/4	90	51 H 4/0	5	<u> </u>			
11-10	10 11 0/0	95	5TH 4/0	5	U	IVI	SIILLOAIII	
					·			
					·			
					·			
<sup>1</sup> T		lation DM	Deduced Metrix MC	Maalia			<sup>2</sup> l a satis a	
Hydric Soil	Indicators: (Applic	able to all	LRRs, unless other	wise not	ed.)	ains.	Location: Indicators	PL=Pore Lining, M=Matrix. for Problematic Hydric Soils <sup>3</sup> :
Histosol Histosol Histosol Histic Eg Black Hi Granic Stratified Organic Stratified Organic Stratified Cogat	(A1) pipedon (A2) stic (A3) en Sulfide (A4) d Layers (A5) Bodies (A6) (LRR P ucky Mineral (A7) (LF esence (A8) (LRR U uck (A9) (LRR P, T) d Below Dark Surface ark Surface (A12) rairie Redox (A16) (I Aucky Mineral (S1) (I Belyed Matrix (S4) Eedox (S5) Matrix (S6) rface (S7) (LRR P, S Layer (if observed):	, T, U) RR P, T, U) ) e (A11) MLRA 150/ _RR O, S) S, T, U)	Polyvalue Bel Thin Dark Sur Loamy Mucky Loamy Gleye Depleted Mat Redox Dark S Period Depleted Dar Redox Depre Marl (F10) (LI Depleted Och Iron-Mangane Olimitation Period	ow Surfa face (S9 / Mineral d Matrix (F3) Surface (F k Surface (F RR U) aric (F11) ase Mass ce (F13) (F17) (MI tic (F18) odplain S right Loa	(F2) (F1) (LRR S, (F1) (LRF (F2) (F2) (F7) (F7) (F7) (F7) (F7) (F7) (F7) (F7	51) (LRR O, P, U) (MLRA 14 F20) (MLR	J) 1 cm M 2 cm M Reduce Piedmo Anoma (MLR Red Pa Very St Other (1 T) <sup>3</sup> Indica wetl unle	luck (A9) (LRR O) luck (A10) (LRR S) ed Vertic (F18) (outside MLRA 150A,B) ont Floodplain Soils (F19) (LRR P, S, T) lous Bright Loamy Soils (F20) (A 153B) arent Material (TF2) hallow Dark Surface (TF12) Explain in Remarks) ators of hydrophytic vegetation and and hydrology must be present, ess disturbed or problematic. 153D)
Type:							Undria Cail	
Remarks:							Hydric Soli	

Project/Site: Beauregard Airport Site	City/County: DeR	lidder/Beauregard	Sampling Date: 5/3/18
Applicant/Owner: CSRS, Inc.		State: LA	Sampling Point: 10-A
Investigator(s). C. Hoffpauir	Section, Township	Range: S12 T3S R10W	
Landform (hillslope, terrace, etc.): Gentle Slope	Local relief (concav	ve, convex, none): Convex	Slope (%): 1-3
Subregion (LRR or MLRA): LRR-T	t. 3409482.21	Long: 466456.58	Datum: UTM NAD 83
Soil Map Unit Name: Caddo-Messer complex (CdA)		NWI classi	fication: None
Are climatic / hydrologic conditions on the site typical for this	time of year? Ves X	lo (If no explain in	Pemarks )
Are Vegetation No , Soil No , or Hydrology No sig	inificantly disturbed?	Are "Normal Circumstances"	, present? Yes X No
Are Vegetation No , Soil No , or Hydrology No na	turally problematic? (	If needed, explain any answ	vers in Remarks.)
SUMMARY OF FINDINGS – Attach site map s	howing sampling poin	nt locations, transect	s, important features, etc.
Hydrophytic Vegetation Present?       Yes X       No         Hydric Soil Present?       Yes No       No         Wetland Hydrology Present?       Yes No       No	x     Is the Sam       x     within a We	pled Area etland? Yes	No <u>X</u>
	biolity seedinings		
HYDROLOGY			
Wetland Hydrology Indicators:		Secondary Indi	cators (minimum of two required)
Primary Indicators (minimum of one is required; check all th	at apply)	Surface So	il Cracks (B6)
Surface Water (A1)	auna (B13)	Sparsely V	egetated Concave Surface (B8)
High Water Table (A2)	osits (B15) <b>(LRR U)</b>	Drainage F	Patterns (B10)
Saturation (A3)	Sulfide Odor (C1)	L Moss Trim	Lines (B16)
Water Marks (B1)	Rhizospheres along Living R	oots (C3)	n Water Table (C2)
Sediment Deposits (B2)	of Reduced Iron (C4)	Crayfish Bu	urrows (C8)
	on Reduction in Tilled Soils (	(1) $(1)$ $(2)$	Visible on Aerial Imagery (C9)
Algai Mat of Crust (B4)	K Sufface (C7)	Geomorphi	IC Position (D2)
Inundation Visible on Aerial Imagery (B7)			al Test (D5)
Water-Stained Leaves (B9)			moss (D8) (LRR T. U)
Field Observations:		<u> </u>	
Surface Water Present? Yes No X Dept	h (inches):		
Water Table Present? Yes No X Dept	h (inches):		
Saturation Present? Yes No X Dept	h (inches):	Wetland Hydrology Pres	ent? Yes <u>No <sup>X</sup></u>
(includes capillary fringe)	rial photos, previous inspect	ions) if available:	
beschibe Recorded Data (stream gauge, monitoring weil, at			
Remarks:			

Sampling Point: 10-A

	Absolute	Dominant	Indicator	Dominance Test worksheet:
Tree Stratum (Plot size: 30 )	% Cover	Species?	Status	Number of Dominant Species
1. None				That Are OBL, FACW, or FAC: 1 (A)
2				Tatal Number of Dania ant
3.				Species Across All Strata 3 (B)
4				
т Е				Percent of Dominant Species
5				That Are OBL, FACW, or FAC: <u>33</u> (A/B)
6				Prevalence Index worksheet:
7				Total % Cover of: Multiply by:
8				
		= Total Cov	rer	
50% of total cover:	20% of	total cover		FACW species x 2 =
Sapling/Shrub Stratum (Plot size: <sup>30</sup> )				FAC species x 3 =
1. Pinus taeda	30	YES	FAC	FACU species x 4 =
2 Morella cerifera	20	YES	FACU	UPL species x 5 =
2. Vaccinium arboreum	5	NO	FACU	Column Totals: (A) (B)
	<u> </u>		FACU	
4. Quercus stellata	2			Prevalence Index = B/A =
5		NO	FACU	Hydrophytic Vegetation Indicators:
6		NO	FAC	1 - Rapid Test for Hydrophytic Vegetation
7				$\square$ 2 - Dominance Test is >50%
8.				$\square$ 2 Browalance Index is <2 0 <sup>1</sup>
	57	= Total Cov	er	$\square$ Brackle matrix the decret of the V constant $\square$ (Function)
50% of total cover: 28.5	20% of	total cover	11.4	
Uterte Otratiere (Distration 30	2078 01		·	
Herb Stratum (Plot size:)	70	VEC	EACU	<sup>1</sup> Indicators of hydric soil and wetland hydrology must
	10			be present, unless disturbed or problematic.
2. Dichanthelium acuminatum	10	NO	FAC	Definitions of Four Vegetation Strata:
3. Pinus taeda	5	NO	FAC	<b>Tree</b> – Woody plants, excluding vines, 3 in, (7.6 cm) or
4. Muhlenbergia capillaris	5	NO	FACU	more in diameter at breast height (DBH), regardless of
5. Rubus argutus	2	NO	FAC	height.
6 Athyrium filix-femina	2	NO	FAC	Sapling/Shrub Woody planta avaluding vince loss
7 Sassafras albidum	2	NO	FACU	than 3 in. DBH and greater than 3.28 ft (1 m) tall.
A Eupatorium rotundifolium	2	NO	FAC	
8				<b>Herb</b> – All herbaceous (non-woody) plants, regardless
9				or size, and woody plants less than 3.28 ft tall.
10				Woody vine – All woody vines greater than 3.28 ft in
11				height.
12				
	98	= Total Cov	rer	
50% of total cover: 49	20% of	total cover	19.6	
Woody Vine Stratum (Plot size: 30				
A None				
1				
2				
3				
4				
5				Hydrophytic
		= Total Cov	rer	Vegetation
50% of total cover:	20% of	total cover		Present? Yes <u>No X</u>
Remarks: (If observed, list morphological adaptations held				
	vv).			

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Profile Desc	ription: (Describe	to the dep	oth needed to docun	nent the i	indicator	or confirm	n the absence	of indicators.)
Depth	Matrix		Redox	k Feature	s			
(inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks
0-8	10 YR 5/3	100			·		Silt Loam	
8-16	10 YR 6/4	95	5YR 4/6	5	С	Μ	Sandy Loam	
					·			
					·			
<sup>1</sup> Type: C=Co	ncentration, D=Dep	letion, RM	=Reduced Matrix, MS	S=Masked	d Sand Gr	ains.	<sup>2</sup> Location:	PL=Pore Lining, M=Matrix.
Hydric Soil I	ndicators: (Applic	able to all	LRRs, unless other	wise not	ed.)		Indicators	for Problematic Hydric Soils <sup>3</sup> :
Histosol	(A1)		Polyvalue Be	low Surfa	ce (S8) <b>(L</b>	.RR S, T, I	<b>U)</b> 🗌 1 cm M	/luck (A9) <b>(LRR O)</b>
Histic Ep	ipedon (A2)		Thin Dark Su	rface (S9	) (LRR S,	T, U)	2 cm N	/luck (A10) (LRR S)
Black His	stic (A3)		Loamy Mucky	/ Mineral	(F1) <b>(LRF</b>	R O)	Reduc	ed Vertic (F18) (outside MLRA 150A,B)
Hydroge	n Sulfide (A4)		Loamy Gleye	d Matrix (	(F2)			ont Floodplain Soils (F19) (LRR P, S, T)
Stratified	Layers (A5)		Depleted Mat	rix (F3)			L Anoma	alous Bright Loamy Soils (F20)
Organic	Bodies (A6) (LRR F	P, T, U)	Redox Dark S	Surface (F	F6)			RA 153B)
	cky Mineral (A7) (L	RR P, T, U ''	) Depleted Dar	k Surface	e (F7)			arent Material (TF2)
	esence (A8) (LRR U	))		SSIONS (F	8)			(Explain in Remarka)
	Relow Dark Surfac	e (A11)		кк <b>О)</b> nric (F11)	(MIRA 1	51)		
Thick Da	rk Surface (A12)			ese Mass	es (F12)	LRR O. P	.T) <sup>3</sup> Indic	ators of hydrophytic vegetation and
Coast Pr	airie Redox (A16)	MLRA 150	A) 🗍 Umbric Surfa	ce (F13)	(LRR P, T	, U)	wet	land hydrology must be present,
🔲 Sandy M	ucky Mineral (S1) (	LRR O, S)	Delta Ochric	(F17) <b>(ML</b>	RA 151)		unle	ess disturbed or problematic.
Sandy G	leyed Matrix (S4)		Reduced Ver	tic (F18) (	(MLRA 15	0A, 150B	)	
Sandy R	edox (S5)		Piedmont Flo	odplain S	ioils (F19)	(MLRA 1	49A)	
Stripped	Matrix (S6)		Anomalous B	right Loa	my Soils (	F20) <b>(MLF</b>	RA 149A, 153C	, 153D)
Dark Sur	face (S7) (LRR P, S	S, T, U)					1	
Restrictive	ayer (if observed).							
Type:								
Depth (inc	:hes):						Hydric Soil	Present? Yes No
Remarks:								

Project/Site: Beauregard Airport Site	City/County: C	eRidder/Beauregard	Sampling Date: <u>12-15-15</u>
Applicant/Owner: SJB Group LLC		State: LA	Sampling Point: 11
Investigator(s): C. Hoffpauir	Section, Towns	ship, Range: S12 T3S R10V	V
Landform (hillslope, terrace, etc.): Ridge Slope	Local relief (co	ncave, convex, none): <u>Conve</u>	Slope (%): <u>1-3</u>
Subregion (LRR or MLRA): LRR-T	Lat: 466312	Long: <u>3409898</u>	Datum: UTM NAD 83
Soil Map Unit Name: Beauregard Silt Loam, 1-3	3 Percent Slopes (BdB)	NWI class	sification: None
Are climatic / hydrologic conditions on the site typic Are Vegetation <u>No</u> , Soil <u>No</u> , or Hydrology Are Vegetation <u>No</u> , Soil <u>No</u> , or Hydrology SUMMARY OF FINDINGS – Attach site	al for this time of year? Yes X No significantly disturbed? No naturally problematic?	_ No (If no, explain in Are "Normal Circumstance (If needed, explain any ans coint locations, transed	n Remarks.) s" present? Yes X No wers in Remarks.) <b>cts, important features, etc.</b>
Hydrophytic Vegetation Present?       Yes         Hydric Soil Present?       Yes         Wetland Hydrology Present?       Yes         Remarks:       Image: Comparison of the second seco	No X No X No X No X	ampled Area Wetland? Yes	<u>No X</u>
HYDROLOGY			
Wetland Hydrology Indicators:	hask all that apply)	Secondary Inc	Jicators (minimum of two required)
Surface Water (A1)	Aquatic Fauna (B13)		Veretated Concave Surface (PP)
High Water Table (A2)	Marl Deposits (B15)		Patterns (B10)

Surface Water (A1)		닏	Aquatic Fauna (B13)		$\square$	Sparsely Vegetated Concave Surface (B8)
High Water Table (A2)			Marl Deposits (B15) (LRR U)			Drainage Patterns (B10)
Saturation (A3)			Hydrogen Sulfide Odor (C1)			Moss Trim Lines (B16)
U Water Marks (B1)			Oxidized Rhizospheres along Living F	Roots (C3)		Dry-Season Water Table (C2)
Sediment Deposits (B2)			Presence of Reduced Iron (C4)			Crayfish Burrows (C8)
Drift Deposits (B3)			Recent Iron Reduction in Tilled Soils	(C6)		Saturation Visible on Aerial Imagery (C9)
Algal Mat or Crust (B4)			Thin Muck Surface (C7)			Geomorphic Position (D2)
Iron Deposits (B5)			Other (Explain in Remarks)			Shallow Aquitard (D3)
Inundation Visible on Ae	rial Imagery (B7	7)				FAC-Neutral Test (D5)
Water-Stained Leaves (	B9)					Sphagnum moss (D8) (LRR T, U)
Field Observations:						
Surface Water Present?	Yes N	<u>ر مر</u>	Depth (inches):			
Water Table Present?	Yes N	No X	Depth (inches):			
Saturation Present? (includes capillary fringe)	Yes N	No X	Depth (inches):	Wetland H	lydı	rology Present? Yes No $\frac{X}{2}$
Describe Recorded Data (str	eam gauge, mo	nitor	ing well, aerial photos, previous inspec	ctions), if avai	ilab	le:
Remarks:						
No wetland hydrolo	gy observe	ed.				

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Compl	ina	Doint	
Sampi	ii ig	FUIII.	

Iree Stratum (Plot size: $30$ )       y, Cover       Species/       Status         1       Prevalence Index sexual Species       (A)         2       (A)       Total Number of Dominant Species       (A)         3       (B)       Percent of Dominant Species       (B)         5       (C)       (C)       (C)       (C)         6       (C)       (C)       (C)       (C)         7       (C)       (C)       (C)       (C)         8       (C)       (C)       (C)       (C)         9       (C)       (C)       (C)       (C)       (C)         1       (C)       (C)       (C)       (C)       (C)       (C)         1       (C)       (C)       (C)       (C)       (C)       (C)       (C)         2       (C)       (C)       (C)       (C)       (C)       (C)       (C)       (C)         3       (C)       (C)       (C)       (C)       (C)       (C)       (C)       (C)       (C)         1       (C)         2       (C
1, Prius tadua       20       Test       PAC         2, Prior tada       20       Test       PAC         3, Construction       1       Total Number of Dominant       2         4,
2
3.
4.
5.
6.
7.
8.       20       = Total Cover       Total Reduce U.       Total Reduce U.       Total Reduce U.         50% of total cover:       10       20% of total cover:       4       Total Reduce U.       Total Reduce U.         Sapling/Shrub Stratum (Plot size:       30       YES       FAC       FAC       FAC         2. Rhus copallinum       5       NO       FAC       FAC       Species $x 4 = $
50% of total cover: 10       20% of total cover: 4       FAC is species $X 2 = $ Sapling/Shrub Stratum (Plot size: 30       )       FAC is species $X 3 = $ 9.       Pinus taada       30       YES       FAC         3. Vaccinium arboreum       5       NO       UPL       Secondard is the image of the i
Sapling/Shrub Stratum (Plot size: 30 )       )         1. Pinus taeda       30       YES       FAC         2. Rhus copalinum       5       NO       UPL         3. Vaccinium arboreum       5       NO       FACU         4. Morella cerifera       2       NO       FAC         5.            6.            7.            8.            42       = Total Cover       2.0% of total cover: 8.4          10.       NO       FAC          11.       Schizachyrium scoparium       40       YES       FACU         2. Solidago altissima       10       NO       FAC         3. Athyrium asplenioides       5       NO       FACU         4. Dicharthelium acuminatum       5       NO       FACU         5. Muhlenbergia capillaris       5       NO       FACU         6.         Sapling/Shrub – Woody plants, excluding vines, less than 3.28 ft tall.         9.          Sapling/Shrub – Woody plants, less than 3.28 ft tall.
1. Pinus taada       30       YES       FAC       YES       FAC         2. Rhus copallinum       5       NO       UPL       WL species $x 4 = \_$ 3. Vaccinium arboreum       5       NO       FACU       UPL species $x 5 = \_$ 3. Vaccinium arboreum       5       NO       FACU       UPL species $x 5 = \_$ 5.       NO       FACU       UPL species $x 5 = \_$ (A)       (B)         4. Morella cerifera       2       NO       FACU       Prevalence Index = B/A =       (B)         6.
2. Phus copallinum       5       NO       UPL       UPL species $x b =$
3. Vaccinium arboreum       5       NO       FACU       Column Totals:       (A)       (B)         4. Morella cerifera       2       NO       FAC       Prevalence Index = B/A =       (A)       (B)         5.       -       -       -       -       Hydrophytic Vegetation Indicators:       1         6.       -       -       -       -       -       Hydrophytic Vegetation Indicators:       1         6.       -       -       -       -       -       -       Hydrophytic Vegetation Indicators:         6.       -
4. Morella cerifera       2       NO       FAC       Prevalence Index = B/A =
5.
6.
7.
8. $42$ = Total Cover         50% of total cover:       21       20% of total cover:       8.4         1.       Schizachyrium scoparium       40       YES       FACU         2.       Solidago altissima       10       NO       FAC         3.       Athyrium asplenioides       5       NO       FACU         4.       Dichanthelium acuminatum       5       NO       FAC         5.       Mullenbergia capillaris       5       NO       FAC         8.
42       = Total Cover $50%$ of total cover: $21%$ $50%$ of total cover: $21%$ $20%$ of total cover: $8.4$ Herb Stratum (Plot size: $30%$ 1. Schizachyrium scoparium $40%$ YES         2. Solidago altissima       10       NO         3. Athyrium asplenioides       5       NO         4. Dichanthelium acuminatum       5       NO         5. Muhlenbergia capillaris       5       NO         6.       —       —         7.       —       —         9.       —       —         10.       —       —         11.       —       —         12.       —       —         50% of total cover:       32.5         9.       —       —         10.       —       —         11.       —       —         12.       —       —         65       = Total Cover       —         50% of total cover:       32.5       20% of total cover:         50% of total cover:       32.5       20% of total cover:       13
50% of total cover:       21       20% of total cover:       8.4         Herb Stratum (Plot size:       30       )       1       1         1. Schizachyrium scoparium       40       YES       FACU       1         2. Solidago altissima       10       NO       FAC       Definitions of Four Vegetation Strata:         3. Athyrium asplenioides       5       NO       FAC       Definitions of Four Vegetation Strata:         5. Muhlenbergia capillaris       5       NO       FAC       Tree - Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.         8.
Herb Stratum (Plot size: 30)       10
Indicators of hydric soli and wetland hydrology must be present, unless disturbed or problematic.         1. Schizachyrium scoparium       40       YES       FACU         2. Solidago altissima       10       NO       FAC         3. Athyrium asplenioides       5       NO       FACU         4. Dichanthelium acuminatum       5       NO       FAC         5. Muhlenbergia capillaris       5       NO       FAC         6
10       NO       FAC         2       Solidago altissima       10       NO       FAC         3.       Athyrium asplenioides       5       NO       FACU         4.       Dichanthelium acuminatum       5       NO       FAC         5.       Muhlenbergia capillaris       5       NO       FAC         6.
2. Athyrium asplenioides       5       NO       FACU         3. Athyrium asplenioides       5       NO       FACU         4. Dichanthelium acuminatum       5       NO       FAC         5. Muhlenbergia capillaris       5       NO       FAC         6
A.       Dichanthelium acuminatum       5       NO       FAC         5.       Mulenbergia capillaris       5       NO       FAC         6.       5       NO       FAC         7.       5       NO       FAC         8.       5       NO       FAC         9.       5       Sapling/Shrub – Woody plants, excluding vines, since, less than 3 in. DBH and greater than 3.28 ft (1 m) tall.         10.       65       10.         11.       65       10.         12.       65       10.         50% of total cover:       32.5         20% of total cover:       13
4.
6.
b.
7.
8.
9 of size, and woody plants less than 3.28 ft tail. 10 11 12 50% of total cover: 32.520% of total cover: 13 Mondphiling Stratum (Dist size, 30)
10.
11 height. 12 $65$ = Total Cover 50% of total cover: $32.5$ 20% of total cover: $13$
12 $65$ = Total Cover 50% of total cover: $32.5$ 20% of total cover: $13$
$\frac{65}{50\% \text{ of total cover}} = \text{Total Cover}$ $\frac{65}{20\% \text{ of total cover}} \frac{32.5}{20\% \text{ of total cover}} \frac{13}{20\% \text{ of total cover}}$
50% of total cover: <u>32.5</u> 20% of total cover: <u>13</u>
$\lambda = \frac{1}{2} $
vvoody vine Stratum (Piot Size:)
1. Rubus trivialis 5 5 FACU
2
3
4
5 Hydrophytic
5 = Total Cover Vegetation
50% of total cover: <sup>2.5</sup> 20% of total cover: <sup>1</sup> Present? Yes <u>No X</u>
Remarks: (If observed, list morphological adaptations below).
Remarks: (If observed, list morphological adaptations below).
Remarks: (If observed, list morphological adaptations below).
Remarks: (If observed, list morphological adaptations below).
Remarks: (If observed, list morphological adaptations below).

SUL
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Depth (inches)       Matrix       Redox Features         0-3       10 YR 3/2       100       Silt Loam         3-9       10 YR 4/3       100       Silt Loam         9-16       7.5 YR 5/6       100       Silt Loam         9-16       7.5 YR 5/6       100       Silt Loam
(inches)       Color (moist)       %       Type <sup>1</sup> Loc <sup>2</sup> Texture       Remarks         0-3       10 YR 3/2       100       Silt Loam       Silt Loam       Silt Loam         3-9       10 YR 4/3       100       Silt Loam       Silt Loam         9-16       7.5 YR 5/6       100       Silt Loam       Silt Loam
0-3       10 YR 3/2       100       Silt Loam         3-9       10 YR 4/3       100       Silt Loam         9-16       7.5 YR 5/6       100       Silt Loam         9-16       7.5 YR 5/6       100       Silt Loam
3-9       10 YR 4/3       100       Silt Loam         9-16       7.5 YR 5/6       100       Silt Loam
9-16       7.5 YR 5/6       100       Silt Loam         ''Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains.       2Location: PL=Pore Lining, M=Matrix.         Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)       Indicators for Problematic Hydric Soils <sup>3</sup> :         Histosol (A1)       Polyvalue Below Surface (S8) (LRR S, T, U)       1 cm Muck (A9) (LRR O)         Histosol (A1)       Polyvalue Below Surface (S8) (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,B)         Hydrogen Sulfide (A4)       Loamy Gleyed Matrix (F2)       Piedmont Floodplain Soils (F19) (LRR P, S, T)         Organic Bodies (A6) (LRR P, T, U)       Redox Dark Surface (F6)       (MLRA 153B)         Stratified Layers (A5)       Depleted Dark Surface (F7)       Red Parent Material (TF2)         Muck Presence (A8) (LRR U)       Redox Depressions (F8)       Hard (F10) (LRR Q)         I cm Muck (A9) (LRR P, T)       Depleted Ochric (F11) (MLRA 151)       Other (Explain in Remarks)         Depleted Below Dark Surface (A11)       Depleted Ochric (F12) (LRR O, P, T) <sup>3</sup> Indicators of hydrophytic vegetation and wetland hydrology must be present,
<sup>1</sup> Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. <sup>2</sup> Location: PL=Pore Lining, M=Matrix.         Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)       Indicators for Problematic Hydric Soils <sup>3</sup> :         Histosol (A1)       Polyvalue Below Surface (S8) (LRR S, T, U)       I cm Muck (A9) (LRR O)         Histic Epipedon (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,B)         Hydrogen Sulfide (A4)       Loamy Gleyed Matrix (F2)       Piedmont Floodplain Soils (F19) (LRR P, S, T)         Organic Bodies (A6) (LRR P, T, U)       Redox Dark Surface (F6)       (MLRA 153B)         5 cm Mucky Mineral (A7) (LRR P, T, U)       Depleted Dark Surface (F7)       Redox Depressions (F8)         1 cm Muck (A9) (LRR P, T)       Marl (F10) (LRR U)       Redox Depressions (F8)         1 cm Muck (A9) (LRR P, T)       Depleted Ochric (F11) (MLRA 151)       Other (Explain in Remarks)         Depleted Below Dark Surface (A12)       Iron-Manganese Masses (F12) (LRR O, P, T) <sup>3</sup> Indicators of hydrophytic vegetation and wetland hydrology must be present,
<sup>1</sup> Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. <sup>2</sup> Location: PL=Pore Lining, M=Matrix.         Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)       Indicators for Problematic Hydric Soils <sup>3</sup> :         Histosol (A1)       Polyvalue Below Surface (S8) (LRR S, T, U)       1 cm Muck (A9) (LRR O)         Black Histic (A3)       Loamy Mucky Mineral (F1) (LRR O)       2 cm Muck (A10) (LRR S)         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)         Muck Presence (A8) (LRR U)       Redox Dark Surface (F6)       Red Parent Material (TF2)         Muck Presence (A8) (LRR P, T, U)       Depleted Ochric (F11) (MLRA 151)       Other (Explain in Remarks)         Depleted Below Dark Surface (A11)       Depleted Ochric (F13) (LRR P, T, U) <sup>3</sup> Indicators of hydrophytic vegetation and wetland hydrology must be present,
<sup>1</sup> Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. <sup>2</sup> Location: PL=Pore Lining, M=Matrix.         Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)       Indicators for Problematic Hydric Soils <sup>3</sup> :         Histosol (A1)       Polyvalue Below Surface (S8) (LRR S, T, U)       1 cm Muck (A9) (LRR O)         Black Histic (A3)       Loamy Mucky Mineral (F1) (LRR O)       2 cm Muck (A10) (LRR S)         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)         Muck Presence (A8) (LRR P, T, U)       Redox Dark Surface (F6)       (MLRA 153B)         Stratified Below Dark Surface (A11)       Depleted Dark Surface (F7)       Red Parent Material (TF2)         Muck (A9) (LRR P, T, U)       Redox Depressions (F8)       Very Shallow Dark Surface (TF12)         Hord (F10) (LRR U)       Depleted Ochric (F11) (MLRA 151)       Other (Explain in Remarks)         Depleted Below Dark Surface (A12)       Iron-Manganese Masses (F12) (LRR O, P, T) <sup>3</sup> Indicators of hydrophytic vegetation and wetland hydrology must be present,
<sup>1</sup> Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. <sup>2</sup> Location: PL=Pore Lining, M=Matrix.         Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)       Indicators for Problematic Hydric Soils <sup>3</sup> :         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)         Black Histic (A3)       Loamy Mucky Mineral (F1) (LRR O)       2 cm Muck (A10) (LRR S)         Hydrogen Sulfide (A4)       Depleted Matrix (F2)       Piedmont Floodplain Soils (F19) (LRR P, S, T)         Organic Bodies (A6) (LRR P, T, U)       Redox Dark Surface (F6)       (MLRA 153B)         Stratified Layers (A5)       Depleted Dark Surface (F7)       Red Parent Material (TF2)         Muck Presence (A8) (LRR U)       Redox Depressions (F8)       Very Shallow Dark Surface (TF12)         Hard Kay Surface (A11)       Depleted Ochric (F11) (MLRA 151)       Other (Explain in Remarks)         Depleted Below Dark Surface (A12)       Iron-Manganese Masses (F12) (LRR O, P, T, U) <sup>3</sup> Indicators of hydrophytic vegetation and wetland hydrology must be present,
<sup>1</sup> Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. <sup>2</sup> Location: PL=Pore Lining, M=Matrix.         Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)       Indicators for Problematic Hydric Soils <sup>3</sup> :         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)         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)         Muck Presence (A8) (LRR P, T, U)       Redox Dark Surface (F6)       Marl (F10) (LRR U)         Muck Presence (A8) (LRR U)       Redox Depressions (F8)       Red Parent Material (TF2)         Very Shallow Dark Surface (A11)       Depleted Ochric (F11) (MLRA 151)       Other (Explain in Remarks)         Depleted Below Dark Surface (A12)       Iron-Manganese Masses (F12) (LRR O, P, T) <sup>3</sup> Indicators of hydrophytic vegetation and wetland hydrology must be present,
<sup>1</sup> Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. <sup>2</sup> Location: PL=Pore Lining, M=Matrix.         Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)       Indicators for Problematic Hydric Soils <sup>3</sup> :         Histosol (A1)       Polyvalue Below Surface (S8) (LRR S, T, U)       1 cm Muck (A9) (LRR O)         Black Histic (A3)       Loamy Mucky Mineral (F1) (LRR O)       2 cm Muck (A10) (LRR S)         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)         Muck Presence (A8) (LRR P, T, U)       Redox Dark Surface (F6)       (MLRA 153B)         Muck Presence (A8) (LRR P, T, U)       Depleted Dark Surface (F7)       Red Parent Material (TF2)         Muck (A9) (LRR P, T)       Marl (F10) (LRR U)       Other (Explain in Remarks)         Depleted Below Dark Surface (A11)       Depleted Ochric (F11) (MLRA 151)       3Indicators of hydrophytic vegetation and wetland hydrology must be present,
Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)       Indicators for Problematic Hydric Soils <sup>3</sup> :         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)         Black Histic (A3)       Loamy Mucky Mineral (F1) (LRR O)       2 cm Muck (A10) (LRR S)         Stratified Layers (A5)       Depleted Matrix (F2)       Piedmont Floodplain Soils (F19) (LRR P, S, T)         Organic Bodies (A6) (LRR P, T, U)       Redox Dark Surface (F6)       (MLRA 153B)         Stratified Layers (A5)       Depleted Dark Surface (F7)       Redox Depressions (F8)         Muck Presence (A8) (LRR U)       Redox Depressions (F8)       Very Shallow Dark Surface (TF12)         Marl (F10) (LRR U)       Depleted Ochric (F11) (MLRA 151)       Other (Explain in Remarks)         Depleted Below Dark Surface (A12)       Iron-Manganese Masses (F12) (LRR O, P, T) <sup>3</sup> Indicators of hydrophytic vegetation and wetland hydrology must be present,
<ul> <li>Histosol (A1)</li> <li>Polyvalue Below Surface (S8) (LRR S, T, U)</li> <li>Histic Epipedon (A2)</li> <li>Thin Dark Surface (S9) (LRR S, T, U)</li> <li>Black Histic (A3)</li> <li>Loamy Mucky Mineral (F1) (LRR O)</li> <li>Loamy Gleyed Matrix (F2)</li> <li>Stratified Layers (A5)</li> <li>Organic Bodies (A6) (LRR P, T, U)</li> <li>Beleted Dark Surface (F6)</li> <li>Muck Presence (A8) (LRR U)</li> <li>Redox Depressions (F8)</li> <li>Communic (A9) (LRR P, T)</li> <li>Marl (F10) (LRR U)</li> <li>Depleted Ochric (F11) (MLRA 151)</li> <li>Thick Dark Surface (A12)</li> <li>Umbric Surface (F13) (LRR P, T, U)</li> <li>Umbric Surface (F13) (LRR P, T, U)</li> <li>Umbric Surface (F13) (LRR P, T, U)</li> <li>Marl (F10) (LRR P, T, U)</li> <li>Depleted Ochric (F11) (MLRA 151)</li> <li>Thick Dark Surface (A16) (MLRA 150A)</li> <li>Umbric Surface (F13) (LRR P, T, U)</li> </ul>
Histic Epipedon (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,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)         Organic Bodies (A6) (LRR P, T, U)       Redox Dark Surface (F6)       (MLRA 153B)         5 cm Muck (A9) (LRR U)       Redox Depressions (F8)       Very Shallow Dark Surface (TF12)         1 cm Muck (A9) (LRR P, T)       Marl (F10) (LRR U)       Other (Explain in Remarks)         Depleted Below Dark Surface (A11)       Depleted Ochric (F11) (MLRA 151)       Iron-Manganese Masses (F12) (LRR O, P, T)         Thick Dark Surface (A12)       Umbric Surface (F13) (LRR P, T, U)       Indicators of hydrophytic vegetation and wetland hydrology must be present,
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)         Organic Bodies (A6) (LRR P, T, U)       Redox Dark Surface (F6)       (MLRA 153B)         5 cm Mucky Mineral (A7) (LRR P, T, U)       Depleted Dark Surface (F7)       Red Parent Material (TF2)         Muck Presence (A8) (LRR U)       Redox Depressions (F8)       Very Shallow Dark Surface (TF12)         1 cm Muck (A9) (LRR P, T)       Marl (F10) (LRR U)       Other (Explain in Remarks)         Depleted Below Dark Surface (A11)       Depleted Ochric (F11) (MLRA 151)       Indicators of hydrophytic vegetation and wetland hydrology must be present,
Import Provide (A4)       Import Provide (A4)       Import Provide (A4)         Import Provide (A4)       Import Provide (A4)       Import Provide (A4)         Import Provide (A4)       Import Provide (A4)       Import Provide (A4)         Import Provide (A4)       Import Provide (A4)       Import Provide (A4)         Import Provide (A4)       Import Provide (A4)       Import Provide (A4)         Import Provide (A4)       Import Provide (A4)       Import Provide (A4)         Import Provide (A4)       Import Provide (A4)       Import Provide (A4)         Import Provide (A4)       Import Provide (A4)       Import Provide (A4)         Import Provide (A4)       Import Provide (A4)       Import Provide (A4)         Import Provide (A4)       Import Provide (A4)       Import Provide (A4)         Import Provide (A4)       Import Provide (A4)       Import Provide (A4)         Import Provide (A4)       Import Provide (A4)       Import Provide (A4)         Import Provide (A4)       Import Provide (A4)       Import Provide (A4)         Import Provide (A4)       Import Provide (A4)       Import Provide (A4)         Import Provide (A4)       Import Provide (A4)       Import Provide (A4)         Import Provide (A4)       Import Provide (A4)       Import Provide (A4)         Import Provide (A4)
Organic Bodies (A6) (LRR P, T, U)       Redox Dark Surface (F6)       (MLRA 153B)         5 cm Mucky Mineral (A7) (LRR P, T, U)       Depleted Dark Surface (F7)       Red Parent Material (TF2)         Muck Presence (A8) (LRR U)       Redox Depressions (F8)       Very Shallow Dark Surface (TF12)         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)         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)
Image: Solution (a) (LRR P, T, U)       Image: Solution (a) (LRR P, T, U)       Image: Solution (a) (LRR P, T, U)         Image: Solution (a) (LRR V)         Image: Solution (a) (LRR V)       Image: Solution (a) (LR V) <t< td=""></t<>
Muck Presence (A8) (LRR U)       Redox Depressions (F8)       Very Shallow Dark Surface (TF12)         1 cm Muck (A9) (LRR P, T)       Marl (F10) (LRR U)       Other (Explain in Remarks)         Depleted Below Dark Surface (A11)       Depleted Ochric (F11) (MLRA 151)       Iron-Manganese Masses (F12) (LRR O, P, T)         Thick Dark Surface (A12)       Umbric Surface (F13) (LRR P, T, U)       Indicators of hydrophytic vegetation and wetland hydrology must be present,
1 cm Muck (A9) (LRR P, T)       Marl (F10) (LRR U)       Other (Explain in Remarks)         Depleted Below Dark Surface (A11)       Depleted Ochric (F11) (MLRA 151)       Iron-Manganese Masses (F12) (LRR O, P, T)         Thick Dark Surface (A12)       Iron-Manganese Masses (F12) (LRR O, P, T)       Indicators of hydrophytic vegetation and wetland hydrology must be present,
<ul> <li>Depleted Below Dark Surface (A11)</li> <li>Depleted Ochric (F11) (MLRA 151)</li> <li>Thick Dark Surface (A12)</li> <li>Iron-Manganese Masses (F12) (LRR O, P, T)</li> <li>Coast Prairie Redox (A16) (MLRA 150A)</li> <li>Umbric Surface (F13) (LRR P, T, U)</li> <li><sup>3</sup>Indicators of hydrophytic vegetation and wetland hydrology must be present,</li> </ul>
Thick Dark Surface (A12) Iron-Manganese Masses (F12) (LRR O, P, T) Iron
[ Coast Prairie Redox (A16) (MLRA 150A) [ Umbric Surface (F13) (LRR P, T, U) wetland hydrology must be present,
Can du Musley Minarel (C4) (I DD O C) Date Octoria (C47) (MI DA 454)
Sandy Mucky Mineral (S1) (LRR O, S) Delta Ocnric (F17) (MLRA 151) Unless disturbed or problematic.
Sandy Bedox (S5)
Stripped Matrix (S6)
Dark Surface (S7) (LRR P, S, T, U)
Restrictive Layer (if observed):
Туре:
Depth (inches):         Hydric Soil Present?         Yes         No         X
Remarks:

Project/Site: Beauregard Airport Site	<sub>City/County:</sub> DeRi	dder/Beauregard	Sampling Date: 12-15-15				
Applicant/Owner: SJB Group LLC		State: LA	Sampling Point: 12				
Investigator(s): C. Hoffpauir	Section, Township,	Section, Township, Range: S11 T3S R10W					
Landform (hillslope, terrace, etc.): Ridge	Local relief (concav	e, convex, none): Convex	Slope (%): <u>3-5</u>				
Subregion (I RR or MI RA)	Lat: 465770	Long: 3409354	Datum: UTM NAD 83				
Soil Map Unit Name: Malbis Fine Sandy Loam, 3-8	5 Percent Slopes (MbC)	NWI classifi	cation: None				
Are climatic / hydrologic conditions on the site typical for	or this time of year? Yes X	o (If no explain in I	Remarks )				
Are Vegetation NO Soil NO or Hydrology NO	significantly disturbed? A	re "Normal Circumstances"	present? Yes X No				
Are Vegetation NO Soil NO or Hydrology NO	organical and a local board of the second sec	f needed, explain any answ	ers in Remarks )				
SUMMARY OF FINDINGS – Attach site m	ap showing sampling poin	it locations. transect	s. important features. etc.				
	Y Y		-,,,,,,,,,,				
Hydrophytic Vegetation Present? Yes	- No <u>^</u> Is the Samp	led Area					
Hydric Soil Present? Yes	- No <u>^</u> within a We	tland? Yes	No X				
Remarks:							
Becent rainfall							
HYDROLOGY							
Wetland Hydrology Indicators:		Secondary Indic	ators (minimum of two required)				
Primary Indicators (minimum of one is required; check	k all that apply)	Surface Soi	l Cracks (B6)				
Surface Water (A1)	uatic Fauna (B13)	Sparsely Ve	egetated Concave Surface (B8)				
High Water Table (A2)	rl Deposits (B15) (LRR U)	Drainage Pa	atterns (B10)				
Saturation (A3)	drogen Sulfide Odor (C1)	🔲 Moss Trim I	_ines (B16)				
Water Marks (B1)	dized Rhizospheres along Living Ro	oots (C3) 🛛 🔟 Dry-Season	Water Table (C2)				
Sediment Deposits (B2)	sence of Reduced Iron (C4)	L Crayfish Bu	rrows (C8)				
$\square Drift Deposits (B3) \square Rec$	cent Iron Reduction in Tilled Soils (C	C6) <u></u> Saturation \	/isible on Aerial Imagery (C9)				
Algal Mat or Crust (B4)	n Muck Surface (C7)	Geomorphic	c Position (D2)				
☐ Iron Deposits (B5) ☐ Oth	er (Explain in Remarks)	Shallow Aqu	uitard (D3)				
Inundation Visible on Aerial Imagery (B7)		FAC-Neutra	al Test (D5)				
Field Observations:							
Surface Water Present? Yes No X	Denth (inches):						
Water Table Present? Ves No X	Depth (inches):						
Saturation Present? Ves No X	Depth (inches):	Wetland Hydrology Prese	nt? Yes No X				
(includes capillary fringe)		fredalia Hydrology Frese					
Describe Recorded Data (stream gauge, monitoring v	vell, aerial photos, previous inspection	ons), if available:					
Remarks:							

Sampling Funt.	Sam	plina	Point:	12
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	Absolute	Dominant	Indicator	Dominance Test worksheet:
Tree Stratum (Plot size: 30 )	% Cover	Species?	Status	Number of Dominant Species
1. Pinus palustris	30	YES	FAC	That Are OBL, FACW, or FAC: <sup>8</sup> (A)
2 Pinus taeda	10	YES	FAC	
3				Total Number of Dominant
				Species Across All Strata (B)
4				Percent of Dominant Species
5			<u> </u>	That Are OBL, FACW, or FAC: 100 (A/B)
6				Prevalence Index worksheet:
7				Total % Cover of: Multiply by:
8				
	40	= Total Cov	/er	
50% of total cover: 20	20% of	f total cover	: 8	FACW species x 2 =
Sapling/Shrub Stratum (Plot size: <u>30</u> )				FAC species x 3 =
1. Liquidambar styraciflua	10	YES	FAC	FACU species x 4 =
2 Ilex vomitoria	10	YES	FAC	UPL species x 5 =
2 Morella cerifera	10	YES	FAC	Column Totals: (A) (B)
Prunus serotina	2	NO	FACIL	
4. <u>Vaccinium arbaraum</u>			EACU	Prevalence Index = B/A =
5. Vaccinium arboreum	2	NO	FACU	Hydrophytic Vegetation Indicators:
6				1 - Rapid Test for Hydrophytic Vegetation
7				2 - Dominance Test is >50%
8				$\overline{\checkmark}$ 3 - Prevalence Index is <3 0 <sup>1</sup>
	34	= Total Cov	/er	$\square$ Problematic Hydrophytic Vegetation <sup>1</sup> (Evolution)
50% of total cover: 17	20% of	f total cover	6.8	
Horb Stratum (Plot size: 30			•	1
Andropogon virginicus	30	YES	FAC	Indicators of hydric soil and wetland hydrology must
- Muhlephorgia capillaria	10	VEQ	EAC	be present, unless disturbed of problematic.
	- 10	160	FAC	Definitions of Four Vegetation Strata:
3. Panicum rigidulum	2	NO	FACW	Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or
4				more in diameter at breast height (DBH), regardless of
5				height.
6				Sapling/Shrub – Woody plants, excluding vines, less
7.				than 3 in. DBH and greater than 3.28 ft (1 m) tall.
8				
0				Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3 28 ft tall
3				
10			·	Woody vine - All woody vines greater than 3.28 ft in
11			. <u> </u>	height.
12				
	42	= Total Cov	/er	
50% of total cover: 21	20% of	f total cover	8.4	
Woody Vine Stratum (Plot size: <sup>30</sup> )				
1 Rubus argutus	5	YES	FAC	
2				
2				
4				
5				Hydrophytic
	5	= Total Cov	/er	Vegetation
50% of total cover: 2.5	20% of	f total cover	<u> </u>	Present? Yes <u>~ No</u>
Remarks: (If observed, list morphological adaptations bel	ow).			

SUL
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Profile Desc	ription: (Describe	to the depth	needed to docum	ent the i	ndicator	or confirm	the absence	of indicate	ors.)	
Depth	Matrix		Redox	Features	6					
(inches)	Color (moist)	<u>%</u>	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture		Remarks	
0-12	10 YR 4/3	100					Silt Loam			
12-16	10 YR 5/4	100					Silt Loam			
					·					
					·		,			
					<u> </u>					
<sup>1</sup> Type: C=Co	oncentration, D=Dep	pletion, RM=R	educed Matrix, MS	=Masked	Sand Gra	ains.	<sup>2</sup> Location:	PL=Pore L	ining, M=Matrix.	1-3-
Hydric Soll I	indicators: (Applic	able to all LF	Rs, unless other	wise note	ea.)			for Proble	matic Hydric Sol	IS':
	(A1) Vinadan (A2)		Polyvalue Bel     Thip Dark Sur	ow Surfac	ce (S8) (L /I PP S	кк S, I, U т II)	$1) \square 1 \text{ cm } M$	uck (A9) <b>(I</b>		
	stic (A3)			Mineral (	(ERR 3, (F1) (LRR	0)		ed Vertic (F	(LKK 3) (outside ML	RA 150A.B)
	n Sulfide (A4)		Loamy Gleye	d Matrix (I	F2)	,		ont Floodpl	ain Soils (F19) <b>(L</b>	RR P, S, T)
Stratified	Layers (A5)		Depleted Mat	rix (F3)	,		🔲 Anomal	Ious Bright	Loamy Soils (F2	))
Organic	Bodies (A6) (LRR P	P, T, U)	Redox Dark S	Surface (F	6)		(MLR	A 153B)		
5 cm Mu	icky Mineral (A7) <b>(Ll</b>	RR P, T, U)	Depleted Darl	k Surface	(F7)		Red Pa	rent Mater	ial (TF2)	
Muck Pr	esence (A8) (LRR L	J)	Redox Depres	ssions (F8	3)		U Very St	nallow Dar	k Surface (TF12)	
	ICK (A9) <b>(LRR P, T)</b> 1 Below Dark Surfac	ο (Δ11)	Depleted Och	<b>KK U)</b> ric (F11) (	(MI RA 1)	51)		Explain in	Remarks)	
	ark Surface (A12)		Iron-Mangane	ese Masse	es (F12) (	LRR O. P.	T) <sup>3</sup> Indica	ators of hvo	drophytic vegetati	on and
Coast Pr	rairie Redox (A16) (I	MLRA 150A)	Umbric Surfac	ce (F13) <b>(</b>	LRR P, T	, U)	wetla	and hydrol	ogy must be pres	ent,
Sandy N	lucky Mineral (S1) (	LRR O, S)	Delta Ochric (	F17) <b>(ML</b>	RA 151)		unle	ss disturbe	ed or problematic.	
Sandy G	ileyed Matrix (S4)		Reduced Vert	ic (F18) <b>(</b> I	MLRA 15	0A, 150B)				
Sandy R	edox (S5)		Piedmont Floo	odplain So	oils (F19)	(MLRA 14	9A)	(505)		
Dork Su	Matrix (S6)	ат II)	Anomalous B	right Loan	ny Solis (I	-20) (MLR	A 149A, 153C,	153D)		
Restrictive L	aver (if observed)	:								
Type:		•								
Depth (inc	ches):						Hydric Soil	Present?	YesI	No X
Remarks:	·						-			

City/County: Definition Deadlegard Sampling Date: 12 10 10
State: LA Sampling Point: 13
Section, Township, Range: S11 T3S R10W
Local relief (concave, convex, none): <u>Concave</u> Slope (%): <u>0-1</u>
51 Long: 3409430 Datum: UTM NAD 83
looded (GYA) NWI classification: None
iar? Yes X       No (If no, explain in Remarks.)         disturbed?       Are "Normal Circumstances" present? Yes X       No         oblematic?       (If needed, explain any answers in Remarks.)         g sampling point locations, transects, important features, etc.
Is the Sampled Area within a Wetland? Yes X No
<sub>)</sub> . 0-4"
/·       @ 13" BGS         ):       0-16"         Wetland Hydrology Present?       Yes X         No          ps, previous inspections), if available:
<

Sampling Point:	13
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	Absolute	Dominant	Indicator	Dominance Test worksheet:	
Tree Stratum (Plot size: 20 )	% Cover	Species?	Status	Number of Dominant Species	
1. None	N/A	N/A	N/A	That Are OBL, FACW, or FAC: <sup>5</sup>	A)
2					,
	·			Total Number of Dominant	2)
3	·			Species Across All Strata. <u> </u>	<b>)</b>
4	·			Percent of Dominant Species	
5	·			That Are OBL, FACW, or FAC: 100 (A	λ/B)
6	·			Prevalence Index worksheet:	
7	. <u> </u>			Total % Cover of: Multiply by:	
8	·				
	N/A	= Total Cov	rer	OBL species X 1 =	
50% of total cover: <u>N/A</u>	20% of	total cover	N/A	FACW species x 2 =	
Sapling/Shrub Stratum (Plot size: <sup>20</sup> )				FAC species x 3 =	
1 Pinus taeda	20	YES	FAC	FACU species x 4 =	
<ul> <li>Liguidambar styraciflua</li> </ul>	10	YES	FAC	UPL species x 5 =	
2. Morella cerifera	10	YES	FAC	Column Totals: (A) (	(B)
3					
4	·			Prevalence Index = B/A =	
5	·			Hydrophytic Vegetation Indicators:	
6				1 - Rapid Test for Hydrophytic Vegetation	
7	. <u> </u>			✓ 2 - Dominance Test is >50%	
8	. <u> </u>			$\overline{\Box}$ 3 - Prevalence Index is $\leq 3.0^1$	
	40	= Total Cov	er	$\square$ Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)	
50% of total cover: <sup>20</sup>	20% of	total cover	8		
Herb Stratum (Plot size: 20				1	
Andropogon virginicus	50	YES	FAC	Indicators of hydric soil and wetland hydrology mus	st
Panicum rigidulum	10	NO	FACW	Deficitions of Four Venetation Official	
2. Andrenggen eenillinge	10		FAC	Definitions of Four vegetation Strata:	
3. Andropogon capilipes	10	NO	FAC	Tree – Woody plants, excluding vines, 3 in. (7.6 cm)	) or
4	. <u> </u>			more in diameter at breast height (DBH), regardless	sof
5	·			neight.	
6				Sapling/Shrub - Woody plants, excluding vines, les	SS
7				than 3 in. DBH and greater than 3.28 ft (1 m) tall.	
8.				Harb All borbaccous (non woody) plante, regardle	200
9.				of size, and woody plants less than 3.28 ft tall.	535
10	·				
11	·			Woody vine – All woody vines greater than 3.28 ft i	in
10	·			neight.	
12	70				
	70	= Total Cov	rer		
50% of total cover: 35	20% of	total cover	14		
Woody Vine Stratum (Plot size:)					
1. Smilax laurifolia	5	YES	FACW		
2					
3.					
4.					
5	·			the described is	
	5	- Total Ca		Hydrophytic	
50% - ( total 25			1	Present? Yes X No	
	20% 01	total cover:	·		
	JW J.				

SOIL
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Profile Desc	ription: (Describe	to the dep	th needed to docun	nent the	indicator	or confirm	n the absence	of indicato	rs.)	
Depth (inches)	Color (moist)	%	Color (moist)	x Feature %	S Type <sup>1</sup>		Texture		Remarks	
0-3	10 YR 4/2	100		/0			Silt Loam	Saturated	<u></u>	
3-10	10 YR 5/2	90	7.5 YR 5/8	10	С	M, PL	Silt Loam	Saturated	t t	
10-12	10 YR 6/2	80	7.5 YR 4/6	20	С	M. PL	Silt Loam	Saturated	d: Fe&Mn m	asses
									.,	
			-			·				
						·				
						·				
<sup>1</sup> Type: C=Co	oncentration, D=Dep	oletion, RM	=Reduced Matrix, MS	S=Maske	d Sand Gr	ains.	<sup>2</sup> Location:	PL=Pore Li	ning, M=Matri	х.
Hydric Soil I	ndicators: (Applic	able to all	LRRs, unless other	wise not	ted.)		Indicators	for Probler	natic Hydric	Soils <sup>3</sup> :
Histosol	(A1)		Polyvalue Be	low Surfa	ace (S8) <b>(I</b>	.RR S, T, l	J)    1 cm [	Muck (A9) <b>(L</b>	RR O)	
Histic Ep	oipedon (A2)		Thin Dark Su	rface (S9	) (LRR S,	T, U)		Muck (A10) <b>(</b>	LRR S)	
	STIC (A3) n Sulfido (A4)			/ Motrix	(F1) (LK)	( O)		ced Vertic (F	18) <b>(Outside I</b> via Soile (E10)	ILRA 150A,B)
			Loanny Gleye     Loanny Gleye	riv (F3)	(Г2)			alous Bright	In Sons (F19)	(LKK F, 3, 1)
	Bodies (A6) (LRR F	Р. Т. U)	Redox Dark S	Surface (I	F6)		<u> </u>	RA 153B)		120)
$\square$ 5 cm Mu	ckv Mineral (A7) (L	, ., ., RR P. T. U	Depleted Dar	k Surface	e (F7)			arent Materi	al (TF2)	
Muck Pr	esence (A8) (LRR l	J)	Redox Depre	ssions (F	-8)		Very S	Shallow Dark	Surface (TF1	2)
🔲 1 cm Mu	ck (A9) (LRR P, T)		Marl (F10) (L	RR U)			Other	(Explain in F	(emarks)	
Depleted	Below Dark Surfac	ce (A11)	Depleted Och	nric (F11)	(MLRA 1	51)				
Thick Da	ark Surface (A12)		✓ Iron-Mangane	ese Mass	ses (F12) (	LRR O, P,	, <b>T)</b> <sup>3</sup> India	cators of hyd	rophytic veget	tation and
Coast Pr	airie Redox (A16) (	MLRA 150	A) 📙 Umbric Surfa	ce (F13)	(LRR P, 1	", U)	we	tland hydrolo	ogy must be pr	resent,
Sandy IV	lucky Mineral (S1) (	LRR O, S)	Delta Ochric	(F17) <b>(M</b> I	LRA 151)		uni	ess disturbe	d or problema	tiC.
Sandy G	edox (S5)			uc (F10) odolain S	(IVILKA 1:	(MI PA 1/	) 19 A )			
	Matrix (S6)			right Loa	mv Soils (	F20) (MI R	•37) RA 149A, 1530	(153D)		
Dark Su	face (S7) <b>(LRR P,</b> \$	S, T, U)		ingin Loa		. 20) (2.		, 1002)		
Restrictive L	ayer (if observed)	:								
Туре:										
Depth (inc	ches):						Hydric Soi	Present?	Yes X	No
Remarks:							1			

Project/Site: Beauregard Airp	ort Site	City/C	ounty: DeRidder/Bea	auregard	Sampling Date: 5/	3/18
Applicant/Owner: CSRS, Inc.				<sub>State:</sub> LA	Sampling Point: 14	4-A
Investigator(s). C. Hoffpauir		Sectio	n Township Range. S	11 T3S R10W	<u>-</u>	
Landform (hillslope terrace etc.)	. Flat/Intermound		relief (concave, convex	none). none	Slope	(%)· 0-1
Cuberstiers (LDD as MLDA): 1 BF	<sup>,,</sup> Я-Т		lener (concave, convex,	65638.73		UTM NAD 83
Subregion (LRR or MLRA): Caddo-M	esser complex (CdA)	_ Lat: <u></u>			Datur	n:
Soil Map Unit Name: Ouddo M		/	V	NVVI classific	ation:	
Are climatic / hydrologic conditio	ns on the site typical for	this time of year? Ye	es <u>^</u> No (	(If no, explain in R	emarks.)	
Are Vegetation NO, Soil NO	, or Hydrology NO	_significantly disturb	bed? Are "Normal	Circumstances" p	present? Yes X	No
Are Vegetation NO _, Soil NO	, or Hydrology NO	_ naturally problema	tic? (If needed, e	explain any answe	rs in Remarks.)	
SUMMARY OF FINDING	S – Attach site ma	p showing sam	pling point locatio	ons, transects	, important fea	tures, etc.
Hydrophytic Vegetation Broom	ta Voo X	No				
Hydric Soil Present?	Yes X	No	Is the Sampled Area	V		
Wetland Hydrology Present?	Yes X	No	within a Wetland?	Yes <u>^</u>	No	
Remarks:						
Pimple Mounded Are	a					
Area recently clearcu	t replanted with	I oblolly seed	llinas			
	n, roplantoa min		linigo			
HYDROLOGY						
Wetland Hydrology Indicator	s:			Secondary Indica	ators (minimum of tw	o required)
Primary Indicators (minimum of	one is required; check	all that apply)		Surface Soil	Cracks (B6)	
Surface Water (A1)	Aqua	atic Fauna (B13)		Sparsely Veg	getated Concave Su	rface (B8)
High Water Table (A2)	Marl	Deposits (B15) (LRR	2 U)	Drainage Pa	tterns (B10)	
Saturation (A3)	Hydr	ogen Sulfide Odor (C	:1)		ines (B16)	
Water Marks (B1)		ized Rhizospheres al	ong Living Roots (C3)	Dry-Season	Water Table (C2)	
Sediment Deposits (B2)		ence of Reduced Iror	n (C4)	Crayfish Bur	rows (C8)	(00)
		ent Iron Reduction in	Tilled Soils (C6)	Saturation V	Isible on Aerial Imag	ery (C9)
		r (Explain in Remark	c)		itard (D3)	
Inundation Visible on Aeria	al Imagery (B7)		5)	EAC-Neutral	Test (D5)	
Water-Stained Leaves (B9	)			Sphagnum n	noss (D8) <b>(LRR T, U</b>	J)
Field Observations:	, 					·
Surface Water Present?	Yes No X	Depth (inches):				
Water Table Present?	Yes <u>No X</u>	Depth (inches):				
Saturation Present?	Yes X No	Depth (inches): 0-16	Wetland H	lydrology Preser	nt? Yes X	No
Describe Recorded Data (strea	im gauge, monitoring we	ell, aerial photos, prev	vious inspections), if ava	ilable:		
Remarks:						

Sampling Point: 14-A

	Absolute	Dominant	Indicator	Dominance Test worksheet:
Tree Stratum (Plot size: <u>30</u> )	<u>% Cover</u>	Species?	<u>Status</u>	Number of Dominant Species
		169	FAC	That Are OBL, FACW, or FAC: _4 (A)
2				Total Number of Dominant
3	·			Species Across All Strata: (B)
4				Percent of Dominant Species
5				That Are OBL, FACW, or FAC: 100 (A/B)
6				Prevalence Index worksheet:
7				Total % Cover of: Multiply by:
8				
	2	= Total Cov	/er	
50% of total cover: <u>1</u>	20% of	total cover	. 0.4	FAC vv species x 2 =
Sapling/Shrub Stratum (Plot size: <u>30</u> )				FAC species x 3 =
1. Pinus taeda	30	YES	FAC	FACU species X 4 =
2. Liquidambar styraciflua	20	YES	FAC	UPL species x 5 =
3. Acer rubrum	10	NO	FAC	Column Totals: (A) (B)
4. Morella cerifera	10	NO	FAC	Prevalence Index = $B/A$ =
5. Baccharis halimifolia	5	NO	FAC	Hydrophytic Vegetation Indicators:
6. Ilex vomitoria	5	NO	FAC	1 - Rapid Test for Hydrophytic Vegetation
7. Vaccinium arboreum	2	NO	FACU	$\checkmark$ 2. Dominance Test is $\sim 50\%$
8.				$\square$ 2 - Dominance results >00%
	82	= Total Cov	/er	$\square$ S - Flevalence index is $\leq 3.0$
50% of total cover: 41	20% of	total cover	16.4	
Herb Stratum (Plot size: 30				
Andropogon virginicus	70	YES	FAC	Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
2 Aristida purpurascens	10	NO	FACW	Definitions of Four Vegetation Strata:
3 Rubus argutus	5	NO	FAC	Deminions of Four Vegetation of ata.
A Juncus brachycarpus	5	NO	FACW	<b>Tree</b> – Woody plants, excluding vines, 3 in. (7.6 cm) or
F Eleocharis microcarpa	2	NO	OBI	height.
c. Funatorium capillifolium	2	NO	FACU	
<ul> <li><u> </u></li></ul>	2	NO	FACW	<b>Sapling/Shrub</b> – Woody plants, excluding vines, less
8				Herb – All herbaceous (non-woody) plants, regardless
9				of size, and woody plants less than 3.28 it tall.
10				Woody vine - All woody vines greater than 3.28 ft in
11				height.
12		. <u> </u>		
	96	= Total Cov	/er	
50% of total cover: 48	20% of	total cover	19.2	
Woody Vine Stratum (Plot size: 30 )				
1. None				
2				
3				
4				
5				Hydrophytic
		= Total Cov	/er	Vegetation
50% of total cover:	20% of	total cover	:	Present? Yes <u>^</u> No
Remarks: (If observed, list morphological adaptations below	ow).			1
, , , , , , , , , , , , , , , , , , ,				

#### SOIL

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)	
Depth <u>Matrix Redox Features</u>	
(inches) Color (moist) % Color (moist) % Type Loc Texture Remarks	
<u>0-7</u> 10 FR 4/1 95 5FR 4/6 5 C M, PL Sili Loan Saturated	
<u>7-16</u> <u>10 YR 6/2</u> <u>80</u> <u>7.5YR 4/8</u> <u>20</u> <u>C</u> <u>M, PL</u> <u>Silt Loam</u> <u>Saturated</u>	
·  · · · · · · · · · · ·	
·	
Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. CLocation: PL=Pore Lining, M=Matrix.	ile <sup>3</sup> .
Histosof (A1) Polyvalde Below Surface (So) (LRR S, 1, 0) C 1 Chi Muck (A9) (LRR O)	
Black Histic (A3)	RA 150A,B)
Hydrogen Sulfide (A4)	RR P, S, T)
Example 2 Stratified Layers (A5) Example 2 Depleted Matrix (F3)	0)
Organic Bodies (A6) (LRR P, T, U)	
5 cm Mucky Mineral (A7) (LRR P, T, U) Depleted Dark Surface (F7)	
Muck Presence (A8) (LRR U) Redox Depressions (F8) Very Shallow Dark Surface (TF12)	
Depleted Below Dark Surface (A11) Depleted Ochric (E11) (MI RA 151)	
Thick Dark Surface (A12)	ion and
Coast Prairie Redox (A16) (MLRA 150A) Umbric Surface (F13) (LRR P, T, U) wetland hydrology must be pres	ent,
Sandy Mucky Mineral (S1) (LRR O, S) 🔲 Delta Ochric (F17) (MLRA 151) unless disturbed or problematic	
Sandy Gleyed Matrix (S4)	
Sandy Redox (S5) Piedmont Floodplain Soils (F19) (MLRA 149A)	
Stripped Matrix (S6)	
Restrictive Layer (if observed):	
Туре:	
Depth (inches): Yes X	No
Remarks:	

Project/Site: Beauregard Airport Si	te	City/	County: DeRidder/E	Beauregard	Sampling Date: 5/3/18	
Applicant/Owner: CSRS, Inc.				<sub>State:</sub> LA	Sampling Point: 15-A	
Investigator(s): C. Hoffpauir		Sect	ion, Township, Range:	S14 T3S R10W		
Landform (hillslope, terrace, etc.): Rid	ge	Loca	l relief (concave, conve	ex, none): Convex	Slope (%): 1-3	
Subregion (I BB or MI BA). LRR-T		Lat. 3408598.9	7 Long	. 465608.27	Datum: UTM NAD 83	
Soil Map Unit Name: Beauregard sil	t loam, 1 to 3 p	percent slopes (Bo	IB)	NWI classifi	cation: None	
Are climatic / hydrologic conditions on	the site typical fo	r this time of vear?	Yes X No	(If no. explain in I	Remarks.)	
Are Vegetation No Soil No	<sub>Hvdrology</sub> No	significantly distu	rbed? Are "Norr	mal Circumstances"	present? Yes X No	
Are Vegetation No Soil No	r Hydrology No	orginitearity clota	atic? (If needed	d explain any answ	ers in Remarks )	
SUMMARY OF FINDINGS - A	Attach site m	ap showing sar	npling point loca	tions, transect	s, important features, etc.	
					· • ·	
Hydrophytic Vegetation Present?	Yes <u>//</u>	_ No	Is the Sampled Are	а		
Wetland Hydrology Present?	Yes	No X	within a Wetland?	Yes	No <u>X</u>	
Remarks:						
Loblolly Pine Forest						
HYDROLOGY						
Wetland Hydrology Indicators:				Secondary Indic	ators (minimum of two required)	
Primary Indicators (minimum of one is	s required; check	all that apply)		Surface Soi	l Cracks (B6)	
Surface Water (A1)	🔲 Aqu	atic Fauna (B13)		Sparsely Vegetated Concave Surface (B8)		
High Water Table (A2)	🛄 Mar	I Deposits (B15) (LR	RU)	Drainage Patterns (B10)		
Saturation (A3)	🛄 Hyd	Irogen Sulfide Odor (	(C1)	Moss Trim Lines (B16)		
U Water Marks (B1)	🛄 Oxi	dized Rhizospheres	along Living Roots (C3	Dry-Season Water Table (C2)		
Sediment Deposits (B2)				Crayfish Burrows (C8)		
Drift Deposits (B3)	Rec	ent Iron Reduction in	n Tilled Soils (C6)	Saturation Visible on Aerial Imagery (C9)		
Algal Mat or Crust (B4)	Algal Mat or Crust (B4) Thin Muck Surface (C7)				c Position (D2)	
Iron Deposits (B5)	L Oth	er (Explain in Remar	ˈks)	Shallow Aqu	uitard (D3)	
Inundation Visible on Aerial Imag	jery (B7)			FAC-Neutra	al Test (D5)	
Water-Stained Leaves (B9)				Sphagnum	moss (D8) <b>(LRR T, U)</b>	
Field Observations:	V					
Surface Water Present? Yes _	No <u>^</u>	Depth (inches):				
Water Table Present? Yes _	No <u>X</u>	Depth (inches):			×	
Saturation Present? Yes _	No X	Depth (inches):	Wetlan	d Hydrology Prese	nt? Yes <u>No <sup>X</sup></u>	
Describe Recorded Data (stream gau	ige, monitoring w	vell, aerial photos, pr	evious inspections), if a	available:		
Remarks:						
Ridge-Well Drained						
0						

		Absolute	Dominant	Indicator	Dominance Test worksheet:	
Tree Stratum (Plot size: 30	)	<u>% Cover</u>	Species?	<u>Status</u>	Number of Dominant Species	
					That Are OBL, FACW, or FAC: _/ (A)	
2. Nyssa sylvalica 3		5		FAC	Total Number of Dominant Species Across All Strata: 7 (B)	
4					Parcent of Dominant Spacios	
5				<u> </u>	That Are OBL, FACW, or FAC: 100 (A/B)	
6		·			Drevelance in dev werkelset:	
7		·			Tetal % Course of Multiplu but	
8					Nultiply by:	
		65	= Total Cov	er		
	50% of total cover: 32.5	5 20% of total cover: <u>13</u>		13	FACW species x 2 =	
Sapling/Shrub Stratum (Plot siz	ze: <u>30</u> )				FAC species x 3 =	
1. Liquidambar styraciflua		30	YES	FAC	FACU species x 4 =	
2. Ilex vomitoria		10	YES	FAC	UPL species x 5 =	
3. Vaccinium arboreum		5	NO	FACU	Column Totals: (A) (B)	
4. Callicarpa americana		5	NO	FACU	Prevalence Index – B/A –	
5					Hydrophytic Vegetation Indicators:	
6.					1 Papid Test for Hydrophytic Vegetation	
7.		·				
8			·		$\square$ 2 - Dominance Test is >50%	
		50	= Total Cov	er	$\square$ 3 - Prevalence index is $\leq 3.0$	
	50% of total cover: 25	20% of	total cover	10		
Harb Stratum (Plat size: 30		2070.01		·	1	
Toxicodendron radicans	)	5	YES	FAC	Indicators of hydric soil and wetland hydrology must	
<ol> <li>Smilax glauca</li> </ol>		2	NO	FAC	Definitions of Four Vegetation Strates	
2. llex vomitoria		5	YES	FAC	Demittons of Four Vegetation Strata.	
Liquidambar styraciflua		5	YES	FAC	Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or	
		<u> </u>	120	1710	more in diameter at breast height (DBH), regardless of height.	
5		·			noight	
6		·			<b>Sapling/Shrub</b> – Woody plants, excluding vines, less	
7		·				
8 9		·			<b>Herb</b> – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.	
10					<b>Woody vine</b> – All woody vines greater than 3.28 ft in	
11					height.	
12						
		17	= Total Cov	er		
	50% of total cover: 8.5	20% of	total cover	3.4		
Woody Vine Stratum (Plot size	30 )					
1. Toxicodendron radicans	,	2	YES	FAC		
2.						
3.						
4			·			
5		·				
· · · · · · · · · · · · · · · · · · ·		2	- Total Cov		Hydrophytic Vegetation	
	50% of total cover:	- = 1 otal Cover		0.4	Present? Yes $\frac{X}{No}$ No	
		20% of total cover: 0.4				
Tremaires. (ii observeu, list mor	priorogical adaptations belo	,,				
1						
SUL						
-----						
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Profile Desc	ription: (Describe	e to the depth	needed to document the indicator or confi	rm the absence of	indicators.)
Depth (inchos)	Matrix	0/	Redox Features		Pomorko
<u>(incries)</u> 0-12	10 YR 3/2	100		Silt Loam	Remains
12-16	10 VR 5/3	100		Silt Loam	
12-10	10 11 5/5	100			
	ncentration D-De	nletion RM-F	educed Matrix MS-Masked Sand Grains	<sup>2</sup> Location: Pl	-Pore Lining M-Matrix
Hydric Soil	ndicators: (Appli	cable to all L	RRs, unless otherwise noted.)	Indicators fo	r Problematic Hydric Soils <sup>3</sup> :
Histosol	(A1)		Polyvalue Below Surface (S8) (LRR S, T	, <b>U)</b> 1 cm Mud	ck (A9) <b>(LRR O)</b>
Histic Ep	pipedon (A2)		Thin Dark Surface (S9) (LRR S, T, U)	2 cm Mu	ck (A10) (LRR S)
Black Hi	stic (A3)		Loamy Mucky Mineral (F1) (LRR O)	L Reduced	Vertic (F18) (outside MLRA 150A,B)
Hydroge	n Sulfide (A4)		Loamy Gleyed Matrix (F2)		t Floodplain Soils (F19) (LRR P, S, T)
	Layers (A5) Rodios (A6) <b>(LPP</b> I	р т н\	Depleted Matrix (F3)		us Bright Loamy Soils (F20)
	icky Mineral (A7) <b>(LKK</b> I	RR P. T. U)	Depleted Dark Surface (F7)		ent Material (TF2)
Muck Pr	esence (A8) (LRR	U)	Redox Depressions (F8)	Very Sha	Illow Dark Surface (TF12)
🗌 1 cm Mu	ick (A9) (LRR P, T)		Marl (F10) (LRR U)	Other (E)	xplain in Remarks)
Depleted	Below Dark Surfa	ce (A11)	Depleted Ochric (F11) (MLRA 151)	2	
	ark Surface (A12)		Iron-Manganese Masses (F12) (LRR O,	P, T) Indicate	ors of hydrophytic vegetation and
Sandy M	lucky Mineral (S1)	(IVILKA 150A) (LRR O. S)	Delta Ochric (F17) (MLRA 151)	unless	s disturbed or problematic.
Sandy G	leyed Matrix (S4)	()	Reduced Vertic (F18) (MLRA 150A, 150	B)	
Sandy R	edox (S5)		Piedmont Floodplain Soils (F19) (MLRA	149A)	
Stripped	Matrix (S6)		Anomalous Bright Loamy Soils (F20) (MI	LRA 149A, 153C, 1	53D)
Dark Su	rface (S7) (LRR P,	S, T, U)			
Restrictive	_ayer (if observed	):			
Type:					
Depth (Ind	cnes):			Hydric Soll Pr	resent? res No
Remarks:					

## WETLAND DETERMINATION DATA FORM – Atlantic and Gulf Coastal Plain Region

Project/Site: Beauregard Airport Site	City/County: DeF	lidder/Beaurega	ard San	npling Date: 5/3/18			
Applicant/Owner: CSRS, Inc.	State: L	.A Sam	npling Point: <u>16-A</u>				
Investigator(s): C. Hoffpauir Section, Township, Range: S12 T3S R10W							
Landform (hillslope, terrace, etc.): Drainage Swale	Local relief (conca	ve, convex, none):	Concave	Slope (%): 0			
Subregion (LRR or MLRA): LRR-T Lat: 34	409167.48	Long: 466647	79	Datum: UTM NAD 83			
Soil Map Unit Name: Beauregard silt loam, 1 to 3 percent sl	opes (BdB)	NV	VI classification	: None			
Are climatic / hydrologic conditions on the site typical for this time	of year? Yes X	lo (If no, ex	plain in Rema	rks.)			
Are Vegetation <u>No</u> , Soil <u>No</u> , or Hydrology <u>No</u> signific	antly disturbed?	Are "Normal Circum	stances" prese	nt? Yes X No			
Are Vegetation <u>No</u> , Soil <u>No</u> , or Hydrology <u>No</u> natural	ly problematic?	If needed, explain a	iny answers in	Remarks.)			
SUMMARY OF FINDINGS – Attach site map show	ving sampling poi	nt locations, tra	ansects, im	portant features, etc.			
Hydrophytic Vegetation Present?       Yes X       No         Hydric Soil Present?       Yes X       No         Wetland Hydrology Present?       Yes X       No         Remarks:       No       No	Is the Sam	pled Area etland?	Yes <u>X</u>	No			
Drainage Swale-Forested							
HYDROLOGY							
Wetland Hydrology Indicators:		Secon	lary Indicators	(minimum of two required)			
Primary Indicators (minimum of one is required; check all that ap	(ylag		rface Soil Crac	ks (B6)			
Surface Water (A1)	a (B13)		arsely Vegetate	ed Concave Surface (B8)			
High Water Table (A2)	(B15) (LRR U)	Dra	ainage Patterns	s (B10)			
Saturation (A3)	ide Odor (C1)		oss Trim Lines (	(B16)			
Water Marks (B1)	ospheres along Living R	oots (C3)	/-Season Wate	r Table (C2)			
Sediment Deposits (B2)	educed Iron (C4)		ayfish Burrows	(C8)			
Drift Deposits (B3)	eduction in Tilled Soils (	C6) 🗌 Sa	turation Visible	on Aerial Imagery (C9)			
Algal Mat or Crust (B4)	rface (C7)	<u>√</u> Ge	omorphic Posit	tion (D2)			
Iron Deposits (B5)	in Remarks)	∐ Sh	allow Aquitard	(D3)			
Inundation Visible on Aerial Imagery (B7)		I FA	C-Neutral Test	(D5)			
✓ Water-Stained Leaves (B9)		L Sp	hagnum moss	(D8) <b>(LRR T, U)</b>			
Field Observations:							
Surface Water Present? Yes No C Depth (Ind	cnes):						
Water Table Present? Yes No <u>^_</u> Depth (in	ches):		<b>D</b> (0)	. Х N			
Saturation Present? Yes <u>A</u> No <u>Depth</u> (includes capillary fringe)	ches):	Wetland Hydrolog	gy Present?	Yes <u>// No</u>			
Describe Recorded Data (stream gauge, monitoring well, aerial p	photos, previous inspect	ions), if available:					
Remarks:							
Nerrow Droinege Swole							
Narrow Drainage Swale							

## VEGETATION (Four Strata) – Use scientific names of plants.

Sampling	Point:	16-A
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	Absolute	Dominant	Indicator	Dominance Test worksheet:			
Tree Stratum (Plot size: 10X30 )	% Cover	Species?	Status	Number of Dominant Species			
1. Triadica sebifera	20	YES	FAC	That Are OBL, FACW, or FAC: <u>3</u> (A	4)		
2				Total Number of Dominant			
3				Species Across All Strata: 3 (E	3)		
4.				· · · · · · · · · · · · · · · · · · ·	,		
5				Percent of Dominant Species			
6				That Ale OBL, FACW, OF FAC. (A	√D)		
7	·			Prevalence Index worksheet:			
7:	·			Total % Cover of: Multiply by:			
8	20			OBL species x 1 =			
10	20	= I otal Cov	ver	FACW species x 2 =			
50% of total cover: 10	20% of	total cover	4	FAC species x 3 =			
Sapling/Shrub Stratum (Plot size: 10X30 )							
1. Triadica sebifera	20	YES	FAC	FACO species X 4 =			
2. Cephalanthus occidentalis	5	NO	OBL	UPL species X 5 =			
3. Morella cerifera	2	NO	FAC	Column Totals: (A) (	(B)		
4. Liquidambar styraciflua	2	NO	FAC	Dravalance Index D/A			
5							
6	·			Hydrophytic Vegetation Indicators:			
0	·			1 - Rapid Test for Hydrophytic Vegetation			
/	·			2 - Dominance Test is >50%			
8				$3$ - Prevalence Index is $\leq 3.0^1$			
	29	= Total Cov	ver	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)			
50% of total cover: <u>14.5</u>	20% of	total cover	5.8				
Herb Stratum (Plot size: 10X30 )				<sup>1</sup> Indicators of hydric soil and wetland hydrology mus	st		
1. Cyperus acuminatus	20	YES	FACW	be present, unless disturbed or problematic.			
2. Panicum hemitomon	10	NO	OBL	Definitions of Four Vegetation Strata:			
3. Andropogon glomeratus	10	NO	FACW				
⊿ Hyptis alata	5	NO	OBL	<b>Tree</b> – Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of			
5 Eupatorium perfoliatum	5	NO	FACW	<ul> <li>Hole in diameter at breast height (DDF), regardless of height.</li> <li>Sapling/Shrub – Woody plants, excluding vines, less than 3 in DBH and greater than 3 28 ft (1 m) tall</li> </ul>			
c. Ludwigia alternifolia	2	NO	OBI				
- Pluchea foetida	2	NO					
	2						
				ess			
9. I oxicodendron radicans	2	NO	FAC	of size, and woody plants less than 3.28 ft tall.			
10				Woody vine – All woody vines greater than 3.28 ft i	in		
11				height.			
12							
	60	= Total Cov	ver				
50% of total cover: <sup>20</sup>	20% of	total cover	12				
Woody Vine Stratum (Plot size: 10X30	2070 01						
NONE							
	·						
2	·						
3	·						
4							
5				Hydrophytic			
		= Total Cov	ver	Vegetation			
50% of total cover:	50% of total cover: 20% of total cover:						
Remarks: (If observed list morphological adaptations below)							
nemanos. (in observeu, list morphological adaptations below).							

## SOIL

Profile Desc	ription: (Describe	to the dep	th needed to docum	nent the i	indicator	or confirm	the absence	of indicators.)
Depth	Depth Matrix Redox Features							
(inches)	Color (moist)		Color (moist)	%	Type'		Texture	Remarks
0-11	10 YR 4/2	90	5YR 4/6	10	C	M, PL	Silt Loam	Saturated
11-13	10 YR 5/2	90	10YR 5/8	10	С	M, PL	Silt Loam	Saturated
13-13	10YR 6/2	70	10YR 5/8	30	С	M, PL	Sand	Saturated
11-13 13-13 13-13 13-13 13-13 14	10 YR 5/2 10YR 6/2 10YR	90 70 	10YR 5/8 10YR 5/8 10YR 5/8 10YR 5/8	10 30 S=Masked wise not low Surfa fface (S9 v Mineral d Matrix ( rix (F3) Surface (F k Surface ssions (F <b>RR U)</b> mic (F11) ese Mass ce (F13) ( (F17) ( <b>ML</b> tic (F18) ( odplain S right Load	C C C d Sand Gr ed.) (C (Fr) (C (Fr) (C (Fr) (F2) (C) (F7) (F2) (C) (C) (C) (C) (C) (C) (C) (C) (C) (C	M, PL M, PL	Silt Loam Sand	Saturated Saturated Saturated Saturated PL=Pore Lining, M=Matrix. for Problematic Hydric Soils <sup>3</sup> : Auck (A9) (LRR O) Auck (A10) (LRR S) ed Vertic (F18) (outside MLRA 150A,B) ont Floodplain Soils (F19) (LRR P, S, T) alous Bright Loamy Soils (F20) RA 153B) arent Material (TF2) hallow Dark Surface (TF12) (Explain in Remarks) ators of hydrophytic vegetation and land hydrology must be present, sess disturbed or problematic. , 153D) Present? Yes X No

## ATTACHMENT E

Site Photographs



Photograph 1 Data Plot 1



Photograph 2 General View of Plot 1



Photograph 3 Data Plot 2



Photograph 4 General View of Plot 2



Photograph 5 Data Plot 3



Photograph 6 General View of Plot 3



Photograph 7 Data Plot 4



Photograph 8 General View of Plot 4



Photograph 9 Data Plot 5



Photograph 10 General View of Plot 5



Photograph 11 Data Plot 6



Photograph 12 General View of Plot 6



Photograph 13 Data Plot 7



Photograph 14 General View of Plot 7



Photograph 15 Data Plot 8



Photograph 16 General View of Plot 8



Photograph 17 Data Plot 9



Photograph 18 General View of Plot 9



Photograph 19 Data Plot 10



Photograph 20 General View of Plot 10



Photograph 21 Data Plot 11



Photograph 22 General View of Plot 11



Photograph 23 Data Plot 12



Photograph 24 General View of Plot 12



Photograph 25 Data Plot 13



Photograph 26 General View of Plot 13



Photograph 27 Data Plot 14



Photograph 28 General View of Plot 14



Photograph 29 Data Plot 15



Photograph 30 General View of Plot 15



Photograph 31 Data Plot 16



Photograph 32 General View of Plot 16